REPORT

Highway 1 Auxiliary Lanes and Bus-on-Shoulder Improvements – Freedom Boulevard to State Park Drive – and Coastal Rail Trail Segment 12 Project

DRAFT Traffic Operations Analysis Report (TOAR)

Submitted to:

Santa Cruz County Regional Transportation Commission (RTC)

and

Caltrans District 5

in association with:

Kimley-Horn and Associates

March 2021

CDM Smith

Table of Contents

Section 1 Executive Summary 1-1

Section 2 Background and Introduction 2-1

Section 3 Project and Study Area Definitions 3-1

Section 4 Overview of Methodology 4-1

4.1 Traffic Operations Analysis Methodology 4-1

4.2 Traffic Safety Analysis Methodology 4-3

Section 5 Existing (2019) and Existing (2019) Build Conditions Assessment 5-1

5.1 Traffic Operational Performance 5-1

5.1.1 Infrastructure and Capacities 5-1

5.1.2 Estimated Traffic Volumes and Average Speeds 5-3

5.1.3 FREQ Based Traffic Operational Performance within Corridor Limits 5-8

5.1.4 FREQ Based Condition Diagrams in Peak Directions 5-10

5.1.5 FREQ based Level of Service (LOS) by Mainline Segment within Corridor Limits 5-13

5.1.6 Daily VMT, VHT and VHD within Corridor Limits 5-16

5.2 Traffic Safety Performance 5-17

Section 6 Opening Year (2025) No Build and Build Conditions Assessment 6-1

6.1 Traffic Operational Performance 6-1

6.1.1 Infrastructure and Capacities 6-1

6.1.2 Estimated Traffic Volumes 6-1

6.1.3 FREQ Based Traffic Operational Performance within Corridor Limits 6-3

6.1.4 FREQ Based Condition Diagrams in Peak Directions 6-5

6.1.5 FREQ Based Level of Service (LOS) by Mainline Segment within Corridor Limits 6-8

6.1.6 Daily VMT, VHT and VHD within Corridor Limits 6-11

6.2 Traffic Safety Performance 6-11

Section 7 Horizon Year (2045) No Build and Build Conditions Assessment 7-1

7.1 Traffic Operational Performance 7-1

7.1.1 Infrastructure and Capacities 7-1

7.1.2 Estimated Traffic Volumes 7-1

7.1.3 FREQ Based Traffic Operational Performance within Corridor Limits 7-3

7.1.4 FREQ based Condition Diagrams in Peak Directions 7-6

7.1.5 FREQ Based Level of Service (LOS) by Mainline Segment within Corridor Limits 7-9

7.1.6 Daily VMT, VHT and VHD within Corridor Limits 7-12

7.2 Traffic Safety Performance 7-13

Section 8 Conclusions 8-1

List of Figures

Figure 1-1 Average Speeds in Northbound AM Peak Period by Mainline Segment, Project Limits plus Upstream, Opening Year (2025) No Build versus Build 1-13
Figure 1-2 Average Speeds in Southbound PM Peak Period by Mainline Segment, Project Limits plus Upstream, Opening Year (2025) No Build versus Build 1-13
Figure 1-3 Average Speeds in Northbound AM Peak Period by Mainline Segment, Project Limits plus Upstream, Horizon Year (2045) No Build versus Build 1-14
Figure 1-4 Average Speeds in Southbound PM Peak Period by Mainline Segment, Project Limits plus Upstream, Horizon Year (2045) No Build versus Build 1-14
Figure 1-5 Opening Year (2025) and Horizon Year (2045) Southbound PM Peak Period Freeway Condition Diagrams, No Build versus Build 1-15
Figure 3-1 Map and Schematic of the Project Limits 3-2
Figure 3-2 Map of the Project Limits, Corridor Limits and Traffic Modeling Limits 3-3
Figure 5-1 SR 1 Northbound 2019 Speed Heatmaps Comparison under Existing (2019) Conditions over the Traffic Modeling Limits 5-6
Figure 5-2 SR 1 Southbound 2019 Speed Heatmaps Comparison under Existing (2019) Conditions over the Traffic Modeling Limits 5-7
Figure 5-3 Freeway Condition Diagram in the Northbound AM Peak Direction, Existing (2019) versus Existing (2019) Plus Build over Traffic Modeling Limits 5-11
Figure 5-4 Freeway Condition Diagram in the Southbound PM Peak Direction, Existing (2019) versus Existing (2019) Plus Build over Traffic Modeling Limits 5-12
Figure 6-1 Freeway Condition Diagram in Northbound AM Peak Direction, Opening Year (2025) No Build versus Opening Year (2025) Build 6-6
Figure 6-2 Freeway Condition Diagram in Southbound PM Peak Direction, Opening Year (2025) No Build versus Opening Year (2025) Build 6-7
Figure 7-1 Freeway Condition Diagram in Northbound AM Peak Direction, Horizon Year (2045) No Build versus Horizon Year (2045) Build 7-7
Figure 7-2 Freeway Condition Diagram in Southbound PM Peak Direction, Horizon Year (2045) No Build versus Horizon Year (2045) Build 7-8
Figure 8-1 Average Speeds in Northbound AM Peak Period by Mainline Segment, Project Limits plus Upstream, Opening Year (2025) No Build versus Build 8-2
Figure 8-2 Average Speeds in Southbound PM Peak Period by Mainline Segment, Project Limits plus Upstream, Opening Year (2025) No Build versus Build 8-3
Figure 8-3 Average Speeds in Northbound AM Peak Period by Mainline Segment, Project Limits plus Upstream, Horizon Year (2045) No Build versus Build 8-3
Figure 8-4 Average Speeds in Southbound PM Peak Period by Mainline Segment, Project Limits plus Upstream, Horizon Year (2045) No Build versus Build 8-4
Figure 8-5 Opening Year (2025) and Horizon Year (2045) Southbound PM Peak Period Freeway Condition Diagrams, No Build versus Build 8-5

List of Tables

Table 1-1 Estimated Weekday Volumes (in vehicles) by SR 1 Mainline Segments and Ramps within the Project Limits, All Scenarios 1-4
Table 1-2 Summary of Project Operational Performance on SR 1 Mainline by Traffic Analysis Scenario and by Direction and Time Period 1-7
Table 1-3 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions 1-9
Table 1-4 Estimated Daily VMT in the SR 1 by Direction of Flow in 2019, 2025, and 2045 1-10
Table 1-5 Estimated Daily VHT in the SR 1 by Direction of Flow in 2019, 2025, and 2045 1-11
Table 1-6 Estimated Daily VHD in the SR 1 by Direction in 2019, 2025, and 2045 1-11
Table 3-1 Auxiliary Lane Projects Included in Scenarios 3-1
Table 4-1 Freeway Level of Service Definitions 4-3
Table 5-1 Existing (2019) Lanes and Capacity by SR 1 Mainline Segment in the Northbound Direction 5-2
Table 5-2 Existing (2019) Lanes and Capacity by SR 1 Mainline Segment in the Southbound Direction 5-3
Table 5-3 Estimated Weekday Volumes (in vehicles) by SR 1 Northbound Mainline Segments and Ramps within the Project Limits, Existing (2019) versus Existing (2019) Plus Build 5-5
Table 5-4 Estimated Weekday Volumes (in vehicles) by SR 1 Southbound Mainline Segments and Ramps within the Project Limits, Existing (2019) versus Existing (2019) Plus Build 5-5
Table 5-5 Chi-Square Statistic for Comparisons of 2019 Speeds between Existing (2019) Conditions FREQ Model Predicted Speeds to Caltrans PeMS plus INRIX Observed Speeds 5-8
Table 5-6 Summary of Traffic Operational Performance within Corridor Limits by Direction and Time Period, Existing (2019) No Build versus Existing (2019) Build 5-9
Table 5-7 Level of Service (LOS) in the SR 1 Northbound Direction by Mainline Segment and Time Period, Existing (2019) versus Existing (2019) Plus Build 5-14
Table 5-8 Level of Service (LOS) in the SR 1 Southbound Direction by Mainline Segment and Time Period, Existing (2019) versus Existing (2019) Plus Build 5-15
Table 5-9 Estimated Daily VMT, VHT and VHD in the SR 1 by Direction of Flow, Existing (2019) versus Existing (2019) Plus Build 5-16
Table 5-10 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions in 2019 5-17
Table 5-11 Summary of Safety Performance over SR 1 Mainline Segments within the Project Limits and Adjacent Segments under Existing (2019) Conditions 5-18
Table 5-12 Summary of Safety Performance over SR 1 Ramps within the Project Limits and Adjacent Segments under Existing (2019) Conditions 5-18
Table 6-1 Estimated Weekday Volumes (in vehicles) by SR 1 Northbound Mainline Segments and Ramps within the Project Limits, Opening Year (2025) No Build versus Opening Year (2025) Build 6-2
Table 6-2 Estimated Weekday Volumes (in vehicles) by SR 1 Southbound Mainline Segments and Ramps within the Project Limits, Opening Year (2025) No Build versus Opening Year (2025) Build 6-2
Table 6-3 Summary of Traffic Operational Performance within Corridor Limits by Direction and Time Period, Opening Year (2025) No Build versus Opening Year (2025) Build 6-4

Table 6-4 Level of Service (LOS) in the SR 1 Northbound Direction by Mainline Segment and Time Period, Opening Year (2025) No Build versus Opening Year (2025) Build 6-9
Table 6-5 Level of Service (LOS) in the SR 1 Southbound Direction by Mainline Segment and Time Period, Opening Year (2025) No Build versus Opening Year (2025) Build 6-10
Table 6-6 Estimated Daily VMT, VHT and VHD in the SR 1 by Direction of Flow, Opening Year (2025) No Build versus Opening Year (2025) Build 6-11
Table 6-7 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions in 2025 6-12
Table 7-1 Estimated Weekday Volumes (in vehicles) by SR 1 Northbound Mainline Segments and Ramps within the Project Limits, Horizon Year (2045) No Build versus Horizon Year (2045) Build 7-2
Table 7-2 Estimated Weekday Volumes (in vehicles) by SR 1 Southbound Mainline Segments and Ramps within the Project Limits, Horizon Year (2045) No Build versus Horizon Year (2045) Build 7-2
Table 7-3 Summary of Traffic Operational Performance within Corridor Limits by Direction and Time Period, Horizon Year (2045) No Build versus Horizon Year (2045) Build 7-4
Table 7-4 Level of Service (LOS) in the SR 1 Northbound Direction by Mainline Segment and Time Period, Horizon Year (2045) No Build versus Horizon Year (2045) Build 7-10
Table 7-5 Level of Service (LOS) in the SR 1 Southbound Direction by Mainline Segment and Time Period, Horizon Year (2045) No Build versus Horizon Year (2045) Build 7-11
Table 7-6 Estimated Daily VMT, VHT and VHD in the SR 1 by Direction of Flow, Horizon Year (2045) No Build versus Horizon Year (2045) Build 7-12
Table 7-7 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions in 2045 7-13
Table 8-1 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions 8-2
Table 8-2 Estimated Daily VHD in the SR 1 by Direction of Flow in 2019, 2025, and 2045 8-6

Appendices

Appendix A Detailed Methodology
Appendix B Estimated Volume Diagrams
Appendix C FREQ Model Raw Outputs
Appendix D FREQ Model Freeway Condition Diagrams
Appendix E Freeway Operational Analysis – Detailed Results
Appendix F Caltrans TASAS Data
Appendix G Freeway Safety Analysis – Detailed Results

Section 1

Executive Summary

The Santa Cruz County Regional Transportation Commission (SCCRTC), in a joint effort with Caltrans District 5, is developing the Tier II Highway 1[1] (State Park Drive to Freedom Boulevard) Auxiliary Lanes Project (also referred to as the "Project"). The Project proposes to improve operations on SR 1 from State Park Drive to Freedom Boulevard by adding 1.5 miles of auxiliary lanes on SR 1 in each direction. It also proposes bus on shoulder (BOS) features to support future bus operations on the outside shoulders of SR 1 during peak congestion periods in the northbound and southbound directions. Further, it includes widening the SR 1 bridge over Aptos Creek and Spreckels Drive, replacing the two railroad bridges over SR 1, and constructing a bicycle and pedestrian trail along an approximately one-mile segment of the Santa Cruz Branch Line railroad right of way.

This Traffic Operations Analysis Report (TOAR) contains information on Existing (2019) conditions, traffic forecasts, and future (Opening Year of 2025 and Horizon Year of 2045) performance under a No Build alternative and the concept plan alternative to support the Project Approval/Environmental Documentation for the Project. The Project area consists of State Route 1 (SR 1) from State Park Drive to Freedom Boulevard which includes two freeway segments and three interchanges. This TOAR describes the operational characteristics of this segment of SR 1 with and without the Project. This report summarizes the traffic operations and safety analysis (also referred to as "the Study") performed for the Project. Traffic conditions were analyzed for the Existing Year of Analysis of 2019, the anticipated Opening Year of the Project of 2025 and the Horizon Year[2] of the Project of 2045 during morning (AM) and evening (PM) periods and peak hours of a weekday[3]. The conditions in these three years were analyzed both with and without the Project, which made up the six scenarios that were analyzed. This traffic analysis is limited to the freeway mainline and ramps and does not assess impacts of the Project on local roadways.

The key findings of the Study are as follows:

- **No Build Conditions Assessment**
    - **Existing Infrastructure:** The Project encompasses a 2.6-mile long SR 1 freeway segment within the Project Limits of State Park Drive and Freedom Boulevard with two lanes in each direction. Within the Project Limits, there are two mainline segments[4] and three interchanges[5]. The Corridor Limits, which includes the Project Limits plus the

[1] Also referred to as State Route 1 or SR 1 in this report.
[2] Horizon Year is assumed based on a design life of the Project of 20 years after the Opening Year. It is noted that the 2045 analysis supports SCCRTC in horizon year planning but is not required for operational improvement projects per Section 103.2 – Design Period of Caltrans' Highway Design Manual.
[3] AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. These peak periods and hours were identified in prior studies - 2012 Tier I improvements EIR Study and 2017 Traffic Analysis Update Memo. For consistency, in this Tier 2 improvement study, the same AM and PM periods and hours were used.
[4] This includes the mainline segments of State Park Drive to Park Avenue and Park Avenue to Bay Avenue/Porter Street.
[5] This includes six (6) ramps from/to State Park Drive, four (4) ramps from/to Park Avenue and four (4) ramps from/to Bay Avenue/Porter Street, in both directions combined.

adjacent downstream segment and all upstream segments within the study's Traffic Modeling Limits, were included in this Study in terms of the area used evaluate the traffic operational impacts due to the Project. The Corridor Limits extend in the SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in the SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road.

- **Existing Traffic Volumes Approaching Capacity:** The SR 1 northbound direction during the AM peak period and SR 1 southbound direction during the PM peak period are the peak directions of travel. Based on the available counts, SR 1 traffic volumes for the peak directions are approaching or equal to the capacity of the freeway. In addition, the presence of queuing on the corridor along the peak directions indicates that the peak direction traffic demand exceeds the capacity. This is based on the fact that observed traffic volumes in areas downstream from a capacity bottleneck may be lower than the demand that would be seen if the bottleneck was not present. Capacities on the SR 1 mainline segments between SR 17 and Larkin Valley Road/San Andreas Road were calibrated in a prior year 2017 traffic study[6]. The capacities[7] on SR 1 mainline segments in the northbound direction were estimated in the 2017 traffic study in the range of 3,600-5,600 vehicles/hour and that on SR 1 mainline segments in the southbound direction were estimated in the range of 3,800-6,150 vehicles/hour.
- **Growing Traffic Volumes:** As shown in **Table 1-1**, average weekday daily mainline traffic on SR 1 under No Build conditions and within the Project Limits is expected to grow between the Existing Year (2019) and the Opening Year (2025) by 4.2 percent in the northbound direction and 5.7 percent in the southbound direction and between the Existing Year (2019) and the Horizon Year (2045) by 17.4 percent and 20.9 percent, respectively. The growth rates were developed using the 2015 and 2040 assignment outputs from the Association of Monterey Bay Area Governments (AMBAG) model and adjusted to account for the induced demand[8] due to the background auxiliary lane projects (Phase 1 / P1: Soquel Drive to 41st Avenue and Phase 2 / P2: Bay Street/Porter Avenue to State Park Drive). On the other hand, average weekday daily ramp traffic (off-ramps and on-ramps combined total) on SR 1 under No Build conditions is expected to grow between the Existing Year (2019) and the Opening Year (2025) by 3.6 percent in the northbound direction and 3.5 percent in the southbound direction and between the Existing Year (2019) and the Horizon Year (2045) by 12.3 percent and 11.1 percent, respectively. **Table 1-1** is also showing the Build traffic, a discussion of the Project added traffic is made under the Build conditions assessment.
- **Effect of Peak Spreading:** In this Study, the weekday hourly demand estimates were higher than the theoretical capacity but were kept lower than an upper limit (or a cap value) of 4,500 vehicles/hour[9] for a limited time of the day with allowance for queuing.

---

[6] CDM Smith's Memo to Caltrans District 5 titled "Santa Cruz Highway 1 Widening/HOV Lane Project – Final 2016/2017 Traffic Analysis Update" and dated July 14, 2017.

[7] The capacities are referring to FREQ traffic operations model mainline segment capacities as calibrated in the 2017 traffic study.

[8] Induced demand in this study represents a VMT shift from local roads to SR 1 due to improved travel conditions on the freeway, and does not increase countywide VMT.

[9] Caps lower than 4,500 vehicles/hour were found to result in excessive peak spreading; while caps higher than 4,500 vehicles/hour were found to result in excessive freeway delays and density (or very poor levels of service). Hence, the cap enabled a practical trip planning – start/end the trip in the neighboring hour while also not face excessive delays.

A "peak spreading"[10] methodology was applied to weekday hourly demand estimates higher than this cap value. In 2019 and 2025 conditions, no "peak spreading" was required. There was a limited amount of "peak spreading" required in 2045. All of the peak spreading occurred within the peak period; there was no peak spreading between the peak and off-peak periods.

[10] The excess hourly volume above the caps was re-distributed to the neighboring hours of the day. "Peak spreading" resulted in shift in traffic between peak and off-peak time periods.

Table 1-1 Estimated Weekday Volumes (in vehicles) by SR 1 Mainline Segments and Ramps within the Project Limits, All Scenarios

Location	Year	Direction	No Build Volumes (vehicles)					Build Volumes (vehicles)					% Difference, Build over No Build				
			AM		PM		Daily Total	AM		PM		Daily Total	AM		PM		Daily Total
			Peak Period	Peak Hour	Peak Period	Peak Hour		Peak Period	Peak Hour	Peak Period	Peak Hour		Peak Period	Peak Hour	Peak Period	Peak Hour	
Mainline Average	Existing (2019)	northbound	18,900	3,335	14,190	2,785	47,800	18,880	3,330	14,270	2,800	48,200	-0.10%	-0.10%	0.60%	0.50%	0.80%
		southbound	15,580	3,070	19,690	3,890	47,000	15,690	3,095	19,820	3,910	47,300	0.70%	0.80%	0.70%	0.50%	0.60%
	Opening Year (2025)	northbound	19,550	3,450	14,980	2,940	49,800	19,520	3,445	15,050	2,955	50,100	-0.20%	-0.10%	0.50%	0.50%	0.60%
		southbound	16,560	3,260	20,740	4,085	49,700	16,650	3,275	20,870	4,115	49,800	0.50%	0.50%	0.60%	0.70%	0.20%
	Horizon Year (2045)	northbound	21,940	3,870	17,110	3,350	56,100	21,820	3,885	17,100	3,345	56,200	-0.50%	0.40%	-0.10%	-0.10%	0.20%
		southbound	19,160	3,745	23,340	4,025	56,800	19,180	3,750	23,400	4,250	56,800	0.10%	0.10%	0.30%	5.60%	0.00%
	% Change, 2025 over 2019	northbound	3.4%	3.4%	5.6%	5.6%	**4.2%**	3.4%	3.5%	5.5%	5.5%	3.9%					
		southbound	6.3%	6.2%	5.3%	5.0%	**5.7%**	6.1%	5.8%	5.3%	5.2%	5.3%					
	% Change, 2045 over 2019	northbound	16.1%	16.0%	20.6%	20.3%	**17.4%**	15.6%	16.7%	19.8%	19.5%	16.6%					
		southbound	23.0%	22.0%	18.5%	3.5%	**20.9%**	22.2%	21.2%	18.1%	8.7%	20.1%					
On-Ramps and Off-Ramps Combined Total	Existing (2019)	northbound	17,190	3,600	15,000	2,600	41,500	17,190	3,600	15,070	2,610	42,100	0.00%	0.00%	0.50%	0.40%	1.40%
		southbound	12,180	2,340	17,360	3,040	39,800	12,260	2,360	17,460	3,060	40,200	0.70%	0.90%	0.60%	0.70%	1.00%
	Opening Year (2025)	northbound	17,770	3,735	15,410	2,670	43,000	17,770	3,735	15,480	2,685	43,300	0.00%	0.00%	0.50%	0.60%	0.70%
		southbound	12,570	2,420	17,950	3,150	41,200	12,650	2,435	18,050	3,170	41,400	0.60%	0.60%	0.60%	0.60%	0.50%
	Horizon Year (2045)	northbound	19,780	4,175	16,430	2,840	46,600	19,780	4,175	16,500	2,855	46,900	0.00%	0.00%	0.40%	0.50%	0.60%
		southbound	13,600	2,605	19,640	3,445	44,200	13,680	2,620	19,750	3,465	44,400	0.60%	0.60%	0.60%	0.60%	0.50%
	% Change, 2025 over 2019	northbound	3.4%	3.8%	2.7%	2.7%	**3.6%**	3.4%	3.8%	2.7%	2.9%	2.9%					
		southbound	3.2%	3.4%	3.4%	3.6%	**3.5%**	3.2%	3.2%	3.4%	3.6%	3.0%					
	% Change, 2045 over 2019	northbound	15.1%	16.0%	9.5%	9.2%	**12.3%**	15.1%	16.0%	9.5%	9.4%	11.4%					
		southbound	11.7%	11.3%	13.1%	13.3%	**11.1%**	11.6%	11.0%	13.1%	13.2%	10.4%					

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Mainline average and on-ramps total and off-ramps combined total were computed for SR 1 northbound segment numbers (#s) 3 through 10 in **Table 5-1** and for SR 1 southbound segment numbers (#s) 16 through 23 in **Table 5-2**. The daily volumes are rounded to the nearest 100 vehicles, the peak period volumes are rounded to the nearest 10 vehicles and the peak hour volumes are rounded to the nearest 5 vehicles. The percentage changes reported at the daily level are thus less precise compared to that at the peak period and peak hour levels.

- **Speeds Data and Traffic Modeling:** A macroscopic freeway analysis model, FREQ12 version 3.02 (also referred as just "FREQ" in this report)[11], was used to analyze the freeway operations performance in terms of level of service (LOS) and average speed under the 2019, 2025 and 2045 No Build conditions. While the capacities in the model were calibrated in a prior year 2017 study[12], a re-calibration of the hourly volume shares under the Existing (2019) conditions was carried out in this study to achieve a closer match between the model predicted speed under the Existing (2019) conditions with observed speeds using the year 2019 speed data from Caltrans PeMS and the speed data from INRIX collected in the year 2017 traffic study. This was done also to improve the accuracy of the performance measures estimated in the year 2025 and the year 2045 conditions. A summary of the No Build freeway operations performance results for the freeway mainline segments within defined northbound and southbound Corridor Limits[13] where the Project would have impacts are shown in **Table 1-2**. This table also shows the Build freeway operations performance, a discussion of the Project related changes to this performance is made under the Build conditions assessment.
- **Incidents and Congestion:** Incidents in the peak directions blocking a lane on the two-lane (each way) SR 1 freeway have a compound effect on an already congested roadway. Congestion in turn can also cause incidents. Drivers of vehicles approaching the end of the queue may fail to slow down or stop due to following too closely or excessive speed resulting in rear-end collisions. Distracted driving under stop-and-go conditions can also lead to such collisions.
- **Collision Rates:** 10-year historical collisions data on SR 1 mainline and ramps collected from the Caltrans Traffic Accident Surveillance and Analysis System (TASAS) indicate that most mainline segments and a few ramps experience overall collision rates higher than the statewide average collision rates. On all mainline segments, fatal collision rates are lower than the statewide average. On four out of eight mainline segments, fatal plus injury collision rates are higher than the statewide average. On two out of fourteen ramps, fatal collision rates are higher than the statewide average. On four out of fourteen ramps, fatal plus injury collision rates are higher than the statewide average. Using adjustments for VMT, **Table 1-3** provides a summary of observed and estimated annual collisions under the 2019, 2025 and 2045 No Build conditions for the freeway mainline segments within the Project Limits. This table also shows the Build safety performance, a discussion of the Project related changes to this performance is made under the Build conditions assessment.

---

[11] The model was originally developed by University of California, Berkeley; the version used was customized by Caltrans District 5 with assistance from CDM Smith in a 2017 study.
[12] CDM Smith's Memo to Caltrans District 5 titled "Santa Cruz Highway 1 Widening/HOV Lane Project – Final 2016/2017 Traffic Analysis Update" and dated July 14, 2017.
[13] A 4.6-mile long corridor in SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and a 7.6-mile long corridor in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road. The Corridor Limits include the mainline segments within the Project Limits and the mainline segments upstream and immediately downstream of the Project Limits. The upstream limit was set based on the FREQ traffic operations model.

- **Build Conditions Assessment**

  - **Project Added Capacity:** The Project will add mainline segment capacity[14] within the Project Limits on the SR 1 mainline segments increasing from a range of 3,950-4,400 vehicles/hour to a range of 5,600-6,100 vehicles/hour due to the added auxiliary lanes. This results in a vehicle throughput increase between interchanges but within the Project Limits but not through the interchanges. The added mainline segment capacity would also benefit congested upstream mainline segments operationally by providing additional storage space for the queued upstream vehicles.
  - **Project related Traffic Impacts: Table 1-1** shows the expected Build traffic estimates and the percentage change due to the Project. The changes are small and are defined by the following considerations:
    - The addition of capacity due to auxiliary lanes within the Project Limits is expected to induce additional demand up to 400 vehicles/day on average in each direction by 2045, which is roughly 0.70 percent of the mainline average traffic volume under No Build conditions. It is however noted that none of that induced demand was allocated to northbound AM peak period as the presence of a downstream bottleneck[15] north of the Soquel Avenue interchange results in delay and travel time increases in this direction and analysis time period. This is evidenced generally by the lack of an increase in traffic volume in the northbound AM under the Build conditions over the No Build conditions. Reduced peak spreading under the Horizon Year (2045) Build conditions creates an exception in the northbound AM peak hour, where the traffic volume increases.
    - The Project includes the provision of a new direct route bus on shoulder/auxiliary lanes (BOS) service, running as an express bus service between Santa Cruz and Watsonville, in both directions. The services would begin at 2 buses per peak hour per direction (30-minute headway) in 2025 and increase to 4 buses per peak per direction (15-minute headway) on SR 1 by 2045. These would complement the Existing (2019) indirect 91X bus service (2 per peak hour per direction) that makes en-route and off-freeway stops at Cabrillo College and Dominican Hospital. The bus service changes would result in a reduction of 240 vehicles/day on average on SR 1 in each direction, which is roughly 0.42 percent of the mainline average traffic volume under 2045 No Build conditions. It is noted that the express BOS service was not considered under the No Build conditions, and the ridership estimation is based on the travel time savings between the No Build and Build conditions. This partially offsets the traffic volume increase related to the induced demand on the freeway.
    - The percentage change in the total Build traffic drops as we move from 2019 to 2045 due to a faster growth in the transit ridership and associated mode shift than as compared to the induced demand due to auxiliary lanes.

[14] The capacity is referring to FREQ traffic operations model mainline segment capacity with and without auxiliary lanes as calibrated in the 2007 traffic study.
[15] A bottleneck is a location where demand for usage of a highway section periodically exceeds the section's physical ability to handle it.

- **Changes to Operational Performance of Adding Auxiliary Lanes:** Calibrated FREQ models were used to analyze the freeway performance in terms of level of service (LOS) and average speed under the 2019, 2025 and 2045 Build conditions. A summary of these results and comparisons to the No Build conditions for the freeway mainline segments within the Corridor Limits are shown in **Table 1-2**.

Table 1-2 Summary of Project Operational Performance on SR 1 Mainline by Traffic Analysis Scenario and by Direction and Time Period

Direction of Movement & Time Period	Performance Measure	Analysis Duration	Existing (2019)	Existing (2019) plus Build	Opening Year (2025) No Build	Opening Year (2025) Build	Horizon Year (2045) No Build	Horizon Year (2045) Build
SR 1 northbound AM peak period	LOS	Peak Hour	F	F	F	E ⬆	F	F
		Peak Period	E	E	F	F	F	F
	Avg. Speed (mph)	Peak Hour	29	29	32	31	23	20
		Peak Period	35	35	30	26	16	13
SR 1 northbound PM peak period	LOS	Peak Hour	C	C	C	C	C	C
		Peak Period	C	B ⇧	C	B ⇧	C	C
	Avg. Speed (mph)	Peak Hour	62	62	62	62	60	62 ⬆
		Peak Period	62	62	62	62	60	62 ⬆
SR 1 southbound AM peak period	LOS	Peak Hour	C	C	C	C	D	C ⇧
		Peak Period	C	C	C	C	C	C
	Avg. Speed (mph)	Peak Hour	59	60 ⬆	60	61 ⬆	55	59 ⬆
		Peak Period	60	60	61	61	58	60 ⬆
SR 1 southbound PM peak period	LOS	Peak Hour	F	F	F	D ⬆	F	F
		Peak Period	F	F	F	C ⇧	F	F
	Avg. Speed (mph)	Peak Hour	23	24 ⬆	22	53 ⬆	14	25 ⬆
		Peak Period	32	33 ⬆	29	58 ⬆	19	29 ⬆

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).
⬆ : indicates improvement compared to No Build of the same year.

Comparing the Build conditions to the No Build conditions, there is an increase in average speed for the southbound PM peak direction. Although the traffic volume in the southbound PM peak direction is higher in 2025 compared to 2019 under both No Build and Build conditions, the speed improvements are higher in 2025. The reason is that in 2025, the background auxiliary lane projects (Phase 1 / P1: Soquel Drive to 41st Avenue and Phase 2 / P2: Bay Street/Porter Avenue to State Park Drive) are assumed to be completed under both the No Build and Build conditions. These projects eliminate bottlenecks upstream of the Project Limits making the Project more effective in improving operational performance. For the northbound AM peak direction, the potential speed improvement within the Project Limits is largely offset by a downstream bottleneck north of the Soquel Avenue interchange. Further, due to differences in peak hour for traffic arrivals among the mainline upstream of the Project Limits and ramps along the corridor, the bottleneck within the Project Limits reaches

its peak volume before the bottleneck downstream of the Soquel Avenue interchange. Residual queued vehicles after the peak hour at the bottleneck within the Project Limits ends also increase the traffic burden on the downstream bottleneck. Under the future conditions (2025 and 2045), the traffic demand factors result in the congestion and queuing effects of the bottleneck downstream of the Project Limits to be more severe than that of the bottleneck within the Project Limits. As an overall effect, under the future conditions (2025 and 2045), the peak density and congestion (drops in speed) within the Corridor Limits would occur later and would be of higher than magnitude than in the peak hour for traffic arrivals within the Project Limits. For these reasons, the LOS and average speed measures in the SR 1 northbound AM peak direction for the peak period are estimated to be worse than for the peak hour. The completion of the background projects, which are also bottlenecks downstream of the Project Limits but upstream to the bottleneck north of the Soquel Avenue interchange, by the year 2025 is not sufficient for the Project effectiveness.

Comparing the Build conditions to the No Build conditions, the level of service (LOS) appears to improve for the southbound PM peak direction in the year 2025 but no improvements were seen in the years 2019 and 2045. The absence of background auxiliary lane projects would explain the year 2019 results. In 2045, even though the LOS did not change, the density would significantly improve from 91 vehicles per mile per lane (vpmpl) and 73 vpmpl in peak period and peak hour to 59 vpmpl and 51 vpmpl, respectively.

- **Operational and Safety Benefits/Impacts of Bus on Shoulder Operations:** Buses would operate on the Project added auxiliary lanes between pairs of freeway on- and off-ramps and on the outside shoulders of the freeway in the interchange areas. The increase in bus services would improve operations on the freeway mainline segments by shifting traffic from a low occupancy auto mode to a high occupancy bus mode and thereby lowering the traffic (as mentioned above). In the Opening Year (2025) Build scenario for the express BOS service, peak direction travel times between the Santa Cruz Metro Transit Center in the north and the Watsonville Transit Center in the south, are expected to improve by 15 minutes in the northbound direction in AM peak period and 18 minutes in the southbound direction in PM peak period.

  To maintain safe travel conditions on the freeway, signage and marking changes would be needed as identified in the SCCRTC's 2019 Bus on Shoulder Concept of Operations report[16]. Education and increased enforcement would also be needed in the early days of the bus operation when a driver expectancy on bus/auto interaction develops.
- **Changes in Safety Performance related to Adding Auxiliary Lanes:** Due to addition of auxiliary lanes and related education and enforcement counter measures, the merge/diverge operations for entering and exiting SR 1 traffic are expected to improve and become safer. **Table 1-3** provides a summary of estimated crashes under the 2019, 2025 and 2045 Build conditions and comparisons to the No Build conditions for the freeway mainline and ramp segments within the Project Limits.

[16] CDM Smith. State Route 1 Auxiliary Lane Bus on Shoulder Concept of Operations. Final report submitted to SCCRTC, March 14, 2019.

Table 1-3 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions

Direction of Movement	Performance Measure	Existing (2019)	Existing (2019) plus Build	Opening Year (2025) No Build	Opening Year (2025) Build	Horizon Year (2045) No Build	Horizon Year (2045) Build
SR 1 northbound	Total Collisions / Year	107	86	112	89	125	100
	Fatal Collisions / Year	0.300	0.250	0.313	0.261	0.349	0.290
	Injury Collisions / Year	38	30	40	32	45	35
	PDO Collisions / Year	69	55	72	57	80	64
SR 1 southbound	Total Collisions / Year	49	40	51	42	58	48
	Fatal Collisions / Year	0.200	0.159	0.210	0.167	0.234	0.185
	Injury Collisions / Year	16	14	17	14	20	16
	PDO Collisions / Year	32	26	34	28	38	31

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions) and TSAR Summary for SR 1 Ramps (with non-state route area 4), Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CMF Clearing House, SCCRTC and CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments of the Project Limits where auxiliary lanes are added.

Total collisions are expected to decrease by approximately 20 percent in the northbound direction and by approximately 17 percent in the southbound direction.

- **Daily VMT, VHT and VHD Assessment:** The vehicle miles traveled (VMT), vehicle hours traveled (VHT), and vehicle hours delay (VHD) at the daily level for each scenario were calculated based on the average of the served mainline volumes within the Corridor Limits estimated from the FREQ traffic operations model, miles of mainline segment, average speed and a delay definition[17]. The changes in VMT, VHT and VHD were calculated due to Auxiliary Lanes Only, due to Express BOS Service Only, and due to their overall effect.

  In terms of VMT, the SB 743 (Transportation Impact) guidelines have listed auxiliary lanes as a project type that is not likely to lead to measurable or substantial increase in vehicle travel. In addition, transit projects such as the BOS element of the Project are exempt from SB 743 analysis. A more regional VMT assessment was conducted as part of the June 19, 2020 application for the Watsonville-Santa Cruz Multimodal Corridor Program Cycle 2 Project under the Senate Bill 1 (SB1) Solutions to Congested Corridors Program (SCCP).

  The intention of the Project is to improve freeway operations as well as to shift the VMT onto the freeway and take traffic off of local roadway network and out of neighborhoods. Results of the regional VMT analysis for the proposed Cycle 2 Project (the combination of all three segments where auxiliary lanes are planned) show a decrease in daily countywide VMT/capita from 20.02 miles/person to 19.98 miles/person and the countywide total VMT relative to the No Build is reduced by approximately 13,300 miles/day. This represents the combined impact of the auxiliary lanes, the BOS improvements, and the active transportation improvements. The analysis presented below reflects a corridor level analysis of VMT based on travel on just the freeway segments within the Corridor Limits.

[17] Free flow speed in the FREQ model (mostly 62 mph) was used as the speed threshold in defining a travel delay. Travel delay is the difference between actual travel time and free flow travel time, provided the actual travel time is higher than the free flow travel time; otherwise, travel delay is zero.

- **VMT Changes: Table 1-4** shows the comparison of daily VMT among the No Build, Auxiliary Lanes Only, and Build (with both Auxiliary Lanes and Express BOS Service) scenarios in year 2019, 2025, and 2045 conditions.

Table 1-4 Estimated Daily VMT in the SR 1 by Direction of Flow in 2019, 2025, and 2045

Year	Direction	Daily Vehicle Miles of Travel (DVMT) (in vehicle-miles)						
		No Build	With Aux Lns Only	Build	Change due to Aux Lns Only	Change due to BOS Only*	Change-Total	% Change-Total
2019	SR 1 northbound	247,330	248,420	248,250	1,090	-170	920	0.4%
	SR 1 southbound	475,750	478,670	478,470	2,920	-200	2,720	0.6%
2025	SR 1 northbound	258,340	259,420	259,290	1,080	-130	950	0.4%
	SR 1 southbound	498,070	504,310	501,950	6,240	-2,360	3,880	0.8%
2045	SR 1 northbound	265,890	266,740	266,570	850	-170	680	0.3%
	SR 1 southbound	538,770	567,210	564,530	28,440	-2,680	25,760	4.8%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).

Note: *Aux Lanes are assumed to be present.

Legend:	Increase	Decrease

The induced demand due to the addition of auxiliary lanes in this Project (SR 1 Tier II improvement project) were estimated by scaling the induced traffic volume impacts of auxiliary lanes identified under the SR 1 Tier I improvements EIR/EA TSM Alternative. The Build scenario includes the impact of both Auxiliary Lanes and BOS operation. Reduction in vehicles due to growth in bus ridership on SR 1 was estimated. The daily VMT increases in all scenarios. The increase in VMT in the 2045 southbound PM scenario comparing the Build scenario to the No Build scenario is primary due to improved vehicle throughput.

- **VHT Changes: Table 1-5** shows the comparison of daily VHT among the No Build, Auxiliary Lanes Only, and Build (with both Auxiliary Lanes and Express BOS Service) scenarios in year 2019, 2025, and 2045 conditions. The daily VHT increases in the northbound direction for all scenarios although VMT changes by a small amount due to the presence of a downstream bottleneck north of the Soquel Avenue interchange. The daily VHT decreases in the southbound direction for all scenarios are due to the elimination of bottlenecks both within the Project Limits and upstream segments that undergo background auxiliary lane project improvements. VHT decreases the most in the southbound direction under the 2025 Build conditions. The bi-directional total daily VHT decreases in all scenarios.

Table 1-5 Estimated Daily VHT in the SR 1 by Direction of Flow in 2019, 2025, and 2045

Year	Direction	Daily Vehicle Hours of Travel (DVHT) (in vehicle-hours)						
		No Build	With Aux Lns Only	Build	Change due to Aux Lns Only	Change due to BOS Only*	Change-Total	% Change-Total
2019	SR 1 northbound	5,170	5,280	5,250	110	-30	80	1.5%
	SR 1 southbound	10,730	10,600	10,570	-130	-30	-160	-1.5%
2025	SR 1 northbound	5,880	6,530	6,450	650	-80	570	9.7%
	SR 1 southbound	11,830	8,440	8,400	-3,390	-40	-3,430	-29.0%
2045	SR 1 northbound	8,820	9,950	9,890	1,130	-60	1,070	12.1%
	SR 1 southbound	16,370	13,590	13,410	-2,780	-180	-2,960	-18.1%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).

Note: *Aux Lanes are assumed to be present.

Legend:	Increase	Decrease

- **VHD Changes: Table 1-6** shows the comparison of daily VHD between the No Build, Auxiliary Lanes Only, and Build (with both Auxiliary Lanes and Express BOS Service) scenarios in the year 2019, 2025, and 2045 conditions. The overall daily VHD increases due to Auxiliary Lanes and BOS express service range from 0.7 percent to 5.8 percent. The majority of the delay reduction changes is attributed to Auxiliary Lanes. The bi-directional total daily VHD decreases in all scenarios.

Table 1-6 Estimated Daily VHD in the SR 1 by Direction in 2019, 2025, and 2045

Year	Direction	Daily Vehicle Hours of Delay (DVHD) (in vehicle-hours)						
		No Build	With Aux Lns Only	Build	Change due to Aux Lns Only	Change due to BOS Only*	Change-Total	% Change-Total
2019	SR 1 northbound	1,190	1,280	1,250	90	-30	60	5.0%
	SR 1 southbound	2,930	2,750	2,720	-180	-30	-210	-7.2%
2025	SR 1 northbound	1,720	2,350	2,270	630	-80	550	32.0%
	SR 1 southbound	3,660	170	160	-3,490	-10	-3,500	-95.6%
2045	SR 1 northbound	4,530	5,650	5,590	1,120	-60	1,060	23.4%
	SR 1 southbound	7,540	4,290	4,150	-3,250	-140	-3,390	-45.0%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).

Note: *Aux Lanes are assumed to be present.

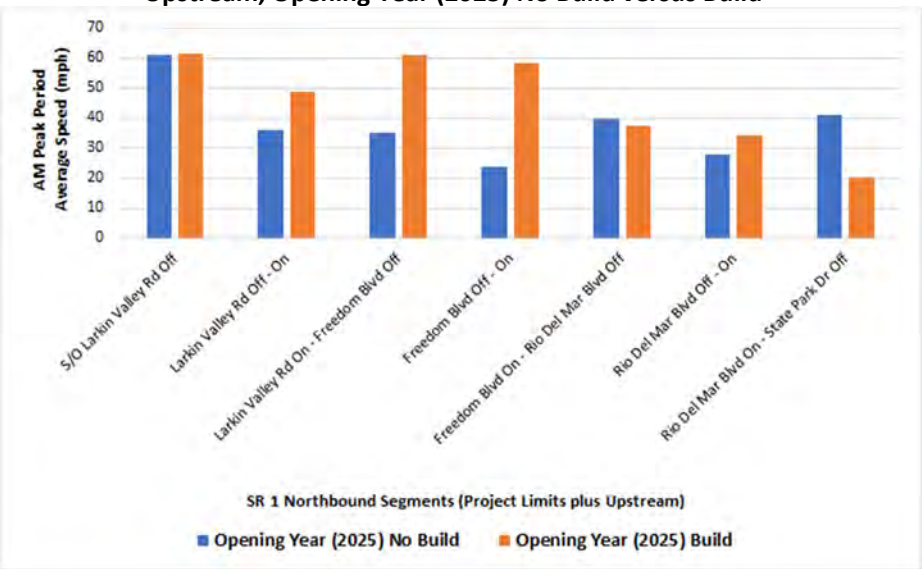
Legend:	Increase	Decrease

The key conclusions based on the traffic analysis are as follows:

- The Project is expected to have the following benefits:
  - **Improved end-to-end BOS travel times:** In the Opening Year (2025) Build Scenario, peak period peak direction travel times between the Santa Cruz Metro Transit Center in the north and the Watsonville Transit Center in the south, are expected to improve by 15 minutes in the northbound direction and 18 minutes in the southbound direction.
  - **Reduced traffic due to a shift from auto to transit**: Within the Project Limits, the Project is expected to result in a reduction of up to 240 vehicles/day (by 2045) on average on SR 1 in each direction as a result of auto drivers being attracted to the improved transit service provided by express BOS operations. This reduction is 0.42 percent of the mainline average traffic volume under 2045 No Build conditions. This benefit partially offsets the traffic volume increase related to the induced demand on the freeway generated due to the capacity increase created by the addition of auxiliary lanes.
  - **Reduced neighborhood cut through traffic without increase in countywide VMT:** The improved travel conditions on the SR 1 freeway result in a shift in VMT from local roads to SR 1. The regional VMT analysis for the proposed Cycle 2 Project (the combination of the Project and two other background planned auxiliary lanes) show the countywide total VMT relative to the No Build is reduced by approximately 13,300 miles/day. The VMT shift, which also represents the induced demand on the freeway, has a positive benefit by reducing neighborhood cut through traffic.
  - **Improved freeway merge/diverge operations and reduced collisions**: Within the Project Limits, on four out of eight mainline segments, fatal plus injury collision rates are higher than the statewide average. On four out of fourteen ramps, fatal plus injury collision rates as well as total collision rates are higher than the statewide average. On average 68 percent of the collisions on all SR 1 northbound mainline segments are rear-end type; while on the SR 1 southbound mainline segments this is 39 percent on average. Sideswipe incidents form around 10 percent of the collisions on the mainline in both directions of SR 1. Collisions at all three interchanges are mainly rear-end type. Some of these types of collisions may be attributed to the lack of auxiliary lanes. Due to addition of auxiliary lanes and related education and enforcement counter measures, the merge/diverge operations for entering and exiting SR 1 traffic are expected to improve and become safer. Total collisions on SR 1 are expected to be reduced by approximately 20 percent in the northbound direction and by approximately 17 percent in the southbound direction in the Build scenarios compared to the No Build scenarios in the years. This is a reduction of 25 northbound and 10 southbound collisions per year by 2045.
  - **Improved average speed on particular sections of the SR 1 northbound and southbound:** As shown in **Figure 1-1** and **Figure 1-2**, in the Opening Year (2025), in the northbound AM peak period, due to the Project, large local speed improvements would occur on SR 1 upstream of the Project Limits from the Larkin Valley Road off-ramp to the Freedom Boulevard on-ramp (about 1 mile). In the SR 1 northbound direction, the presence of a downstream bottleneck north of the Soquel Avenue interchange impacts the average speeds within the Project Limits, as evident by a drop

in the average speed on the mainline segment from Rio Del Mar Boulevard on-ramp to State Park Drive off-ramp. In the southbound PM peak period, due to the Project, large Corridor level and local level speed improvements would occur both within the Project Limits and upstream of the Project Limits from Soquel Drive on-ramp to Freedom Boulevard off-ramp (about 6 miles).

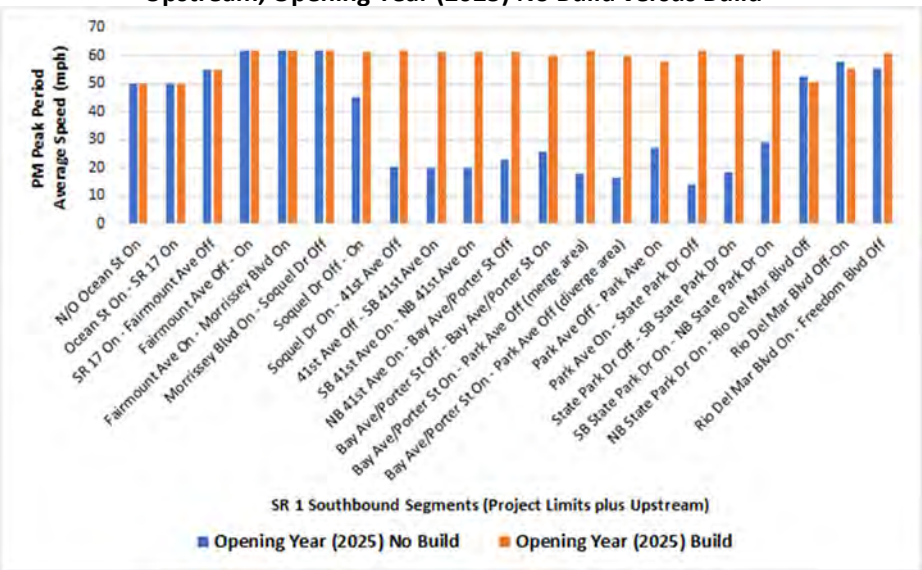
Figure 1-1 Average Speeds in Northbound AM Peak Period by Mainline Segment, Project Limits plus Upstream, Opening Year (2025) No Build versus Build



Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm.

Figure 1-2 Average Speeds in Southbound PM Peak Period by Mainline Segment, Project Limits plus Upstream, Opening Year (2025) No Build versus Build

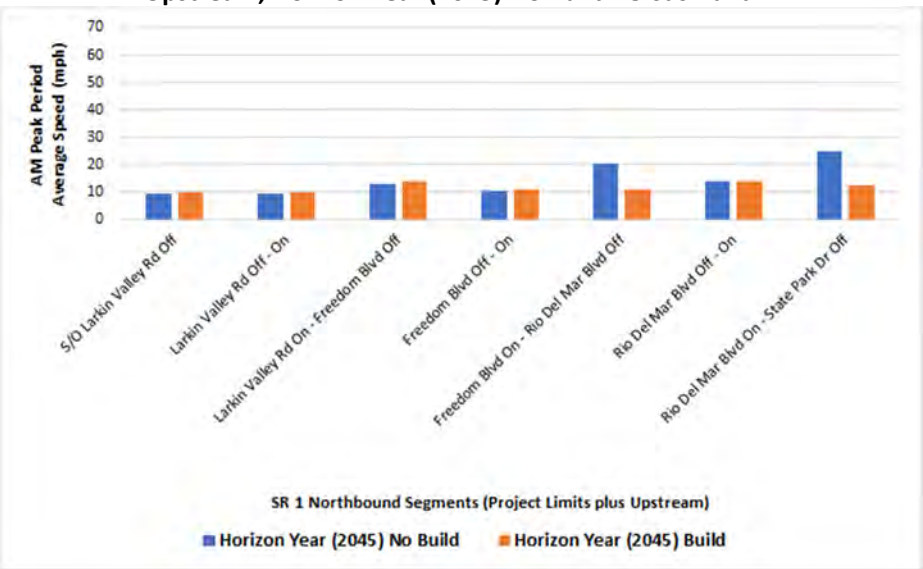


Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: PM peak period: 2 pm to 8 pm.

As shown in **Figure 1-3** and **Figure 1-4**, in the Horizon Year (2045), the speed or travel time benefits in the northbound direction become smaller due to the congestion created by a downstream bottleneck north of Soquel Avenue interchange. On the other hand, large Corridor level and local level speed or travel time improvements would occur both within the Project Limits and upstream of the Project Limits from SR 17 on-ramp to Freedom Boulevard off-ramp (about 8 miles).

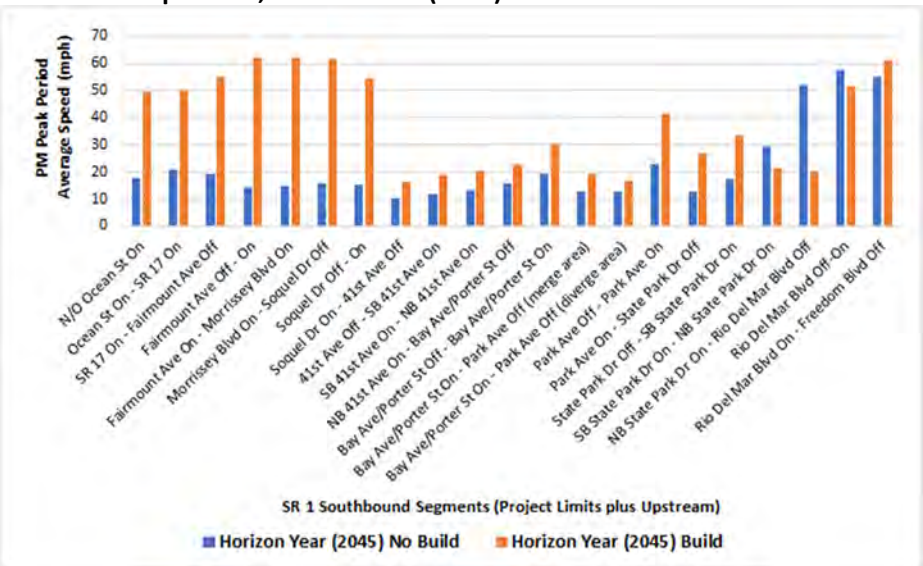
Figure 1-3 Average Speeds in Northbound AM Peak Period by Mainline Segment, Project Limits plus Upstream, Horizon Year (2045) No Build versus Build



Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: PM peak period: 2 pm to 8 pm.

Figure 1-4 Average Speeds in Southbound PM Peak Period by Mainline Segment, Project Limits plus Upstream, Horizon Year (2045) No Build versus Build

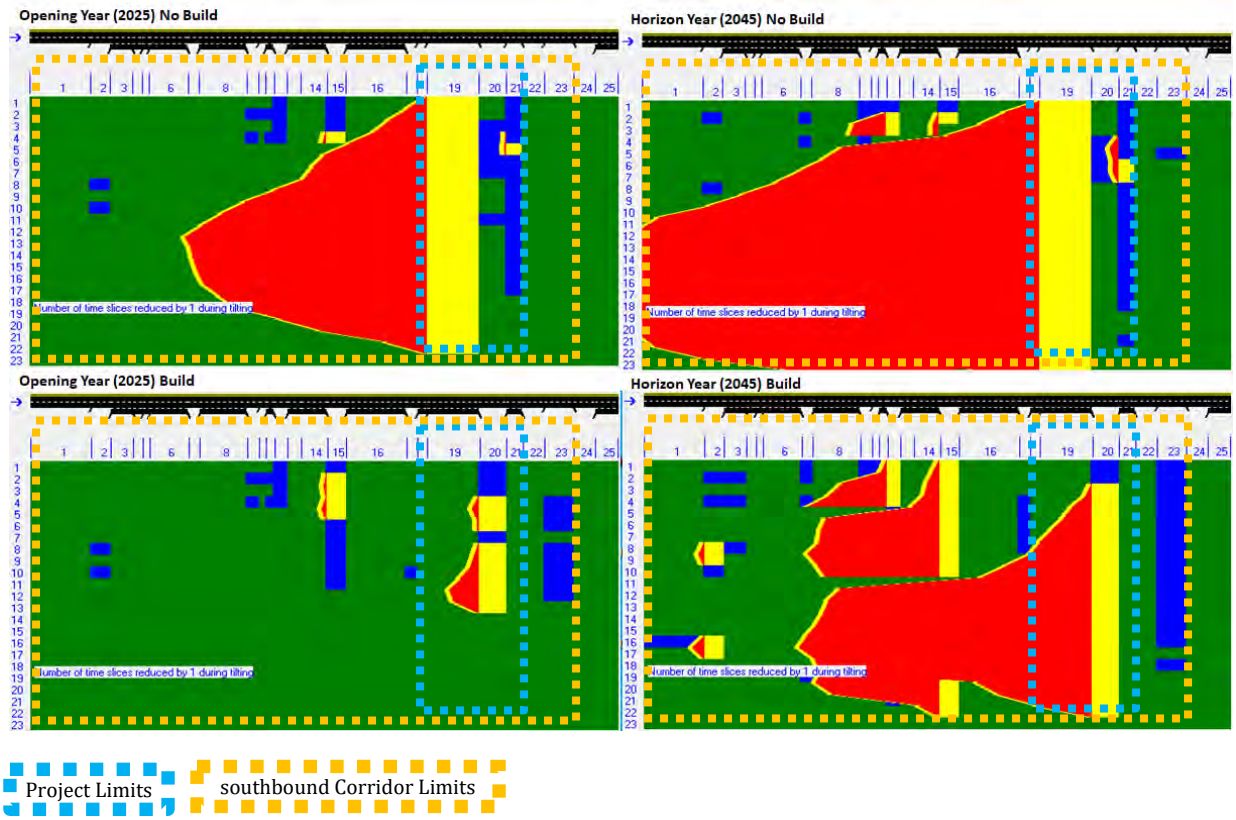


Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: PM peak period: 2 pm to 8 pm.

- **Increased vehicle throughput and reduced delay in the southbound direction**: The Project provides critical bottleneck relief as part of a series of planned auxiliary lanes projects in the southbound direction. Without this Project, the freeway vehicle throughput of SR 1 in the southbound direction would remain low and the delays to vehicles would be high. The peak period vehicle throughput in the southbound PM would be increased in the Corridor Limits from about 3,635 vehicles/hour to about 3,970 vehicles/hour, or by 9 percent, in the Horizon Year (2045). The Horizon Year (2045) No Build scenario was estimated to have 7,540 vehicle-hours of delay in the southbound PM peak period within the Corridor Limits which would be reduced by 45 percent to 4,150 vehicle-hours of delay under the Build scenario. This translates to a delay reduction of 10 minutes per vehicle in the peak period and 19 minutes per vehicle in the peak hour for the southbound PM movement within the Corridor Limits. The delay reduction benefits in the southbound direction in 2025 and 2045 can be visualized on the freeway condition diagrams shown in **Figure 1-5**.

Figure 1-5 Opening Year (2025) and Horizon Year (2045) Southbound PM Peak Period Freeway Condition Diagrams, No Build versus Build



Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Color key: (a) green = free-flow conditions; (b) blue = near capacity conditions (0.9 <= volume over capacity <= 1.0); (c) yellow = bottleneck (volume over capacity = 1.0); and (d) red = congested flow conditions. Segments 18-21 represent the Project Limits. Segments 1-23 represent the Corridor Limits.

- **Overall delay reduction both directions combined:** Based on **Table 1-6**, comparing Build to No Build scenarios, daily VHD increases in the northbound direction and decreases in the southbound direction. Combining the two directions, there is an overall reduction in daily VHD in all 2019, 2025, and 2045 years. For these years, the net delay reduction estimates due to the Project are 150 daily vehicle-hours, 2,950 daily vehicle-hours and 2,330 vehicle-hours of delay reduction, respectively. The drop in the benefits in 2045 is due to limited gain in travel time in the southbound direction and rapidly worsening congestion in the northbound direction due to the downstream bottleneck north of the Soquel Avenue interchange.

Section 2

Background and Introduction

The Santa Cruz County Regional Transportation Commission (SCCRTC) developed a Highway 1[18] Corridor Investment Program (Program) that included a two-tiered approach for projects; Tier I is a high-level, corridor-wide vision for the corridor and Tier II projects are specific, fundable projects that require more detailed environmental study. Caltrans is the lead agency for the combined Tier I/Tier II Environmental Impact Report/Environmental Assessment (EIR/EA).

Santa Cruz County passed Measure D in November of 2016, which included 25 percent of the revenue to fund the Program. SCCRTC is interested to apply this funding source to develop the Highway 1 (State Park Drive to Freedom Boulevard) Auxiliary Lanes Project[19] (also referred to as the "Project"), which is one among the Tier II projects of the Program.

The purpose of this report is to describe the methodology and results for traffic analysis performed for this Project. The analysis covers traffic operations and safety impacts of the Project on SR 1 only. It is based on available Caltrans traffic counts, Caltrans Traffic Accident and Surveillance Analysis System (TASAS) collisions data, Association of Monterey Bay Area Governments (AMBAG's) regional travel demand model outputs, and FREQ 12 version 3.02 (also referred as just "FREQ") macroscopic simulation model for evaluating the Project performance. The traffic analysis was performed under the following six scenarios (or conditions):

- Existing (2019)
- Existing (2019) plus Build
- Opening Year (2025) No Build
- Opening Year (2025) Build
- Horizon Year (2045) No Build
- Horizon Year (2045) Build

The reason the year 2019 is selected as the base year is that the year 2020 is seeing abnormal traffic conditions due to the ongoing California mandated Coronavirus / COVID-19 Stay in Place orders. Under the future year scenarios (2025 and 2045), the analysis included the planned and prior studied Tier II projects of: (a) Soquel to 41st Avenue Auxiliary Lanes Project; and (b) Bay Avenue/Porter Street to State Park Drive Auxiliary Lanes Project as part of both the Build and No-Build alternatives. The analysis assumed there are no effects of the COVID-19 shutdown on the distant years of 2025 and 2045.

The remainder of this report is organized into the following sections:

- Project and Study Area Definitions
- Overview of Methodology

[18] Also referred to as State Route 1 or SR 1 in this report.

[19] The Project mainly includes an addition of auxiliary lanes on SR 1 between State Park Drive to Freedom Boulevard in both directions. The Project also includes bus on shoulder operations for Santa Cruz Metro bus service on SR 1 and a few other off-freeway infrastructure improvements.

- Existing (2019) and Existing (2019) plus Build Conditions Assessment
- Opening Year (2025) No Build and Build Conditions Assessment
- Horizon Year (2045) No Build and Build Conditions Assessment
- Conclusions/Recommendations
- Appendices
  - Appendix A: Detailed Methodology
  - Appendix B: Estimated Volume Diagrams
  - Appendix C: Raw FREQ Model Outputs
  - Appendix D: FREQ Freeway Conditions Diagrams
  - Appendix E: FREQ Operational Analysis – Detailed Results
  - Appendix F: FREQ Safety Analysis – Detailed Results

Section 3

Project and Study Area Definitions

The Project proposes to improve operations on SR 1 from State Park Drive to Freedom Boulevard by adding auxiliary lanes and bus on shoulder (BOS) features in the northbound and southbound directions, widening the SR 1 bridge over Aptos Creek and Spreckels Drive, replacing the two railroad bridges over SR 1, and constructing a bicycle and pedestrian trail along an approximately one-mile segment of the Santa Cruz Branch Line railroad right of way.

The Project extends approximately 2.6 miles (SCR PM 8.1 to PM 10.7) along SR 1 between the State Park Drive and Freedom Boulevard Interchanges within unincorporated areas (Aptos and Rio Del Mar) of the County of Santa Cruz (Project Limits). Approximately, 1.5 miles of auxiliary lanes would be added on SR 1 in each direction. The auxiliary lanes would connect on-ramps with the next off-ramps, thereby extending the weaving and merging distance between the ramps and improving traffic flow by allowing greater separation between vehicles entering and exiting the freeway from the mainline traffic lanes. The proposed BOS improvements would support future bus operations on the outside shoulders of SR 1 during peak congestion periods to achieve transit travel time savings and reliability improvements.

This study includes not only the Project auxiliary lanes but also two prior planned and phased auxiliary lane projects that are expected to be built by year 2025. Together, the phasing of the three auxiliary lane projects on SR 1 is defined as follows:

- Phase 1 (P1): Soquel Drive to 41st Avenue
- Phase 2 (P2): Bay Street/Porter Avenue to State Park Drive
- Phase 3 (P3): State Park Drive to Freedom Boulevard (representing the Project)

Table 3-1 shows the scenarios in which the series of P1 through P3 projects are considered in place for analysis. As noted, P1 and P2 projects are treated in the future (2025 and 2045) No Build and Build scenarios as background projects.

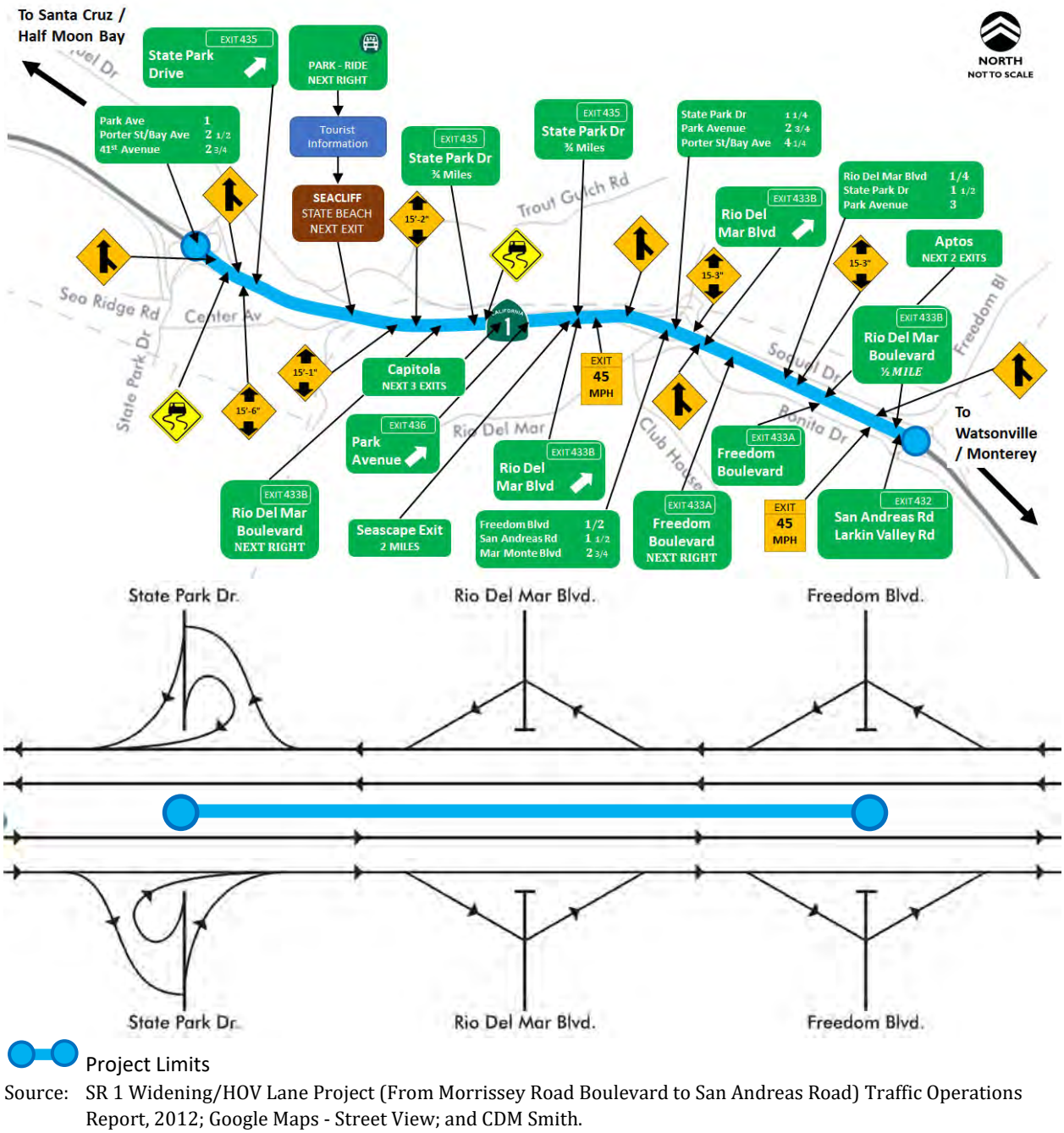
Table 3-1 Auxiliary Lane Projects Included in Scenarios

Year	Scenario	P1	P2	P3
		Soquel Drive to 41st Avenue	Bay Street/Porter Avenue to State Park Drive	State Park Drive to Freedom Boulevard
2019	Existing			
	Existing Plus Build			•
2025	No Build	•	•	
	Build	•	•	•
2045	No Build	•	•	
	Build	•	•	•

Source: CDM Smith's Traffic Analysis.
Note: • Denotes the auxiliary lane section is included in the scenario

Figure 3-1 shows a map and a schematic of the Project Limits and an inventory of the existing signage. The study area extends over 2.4 miles across, and includes: (a) two SR 1 mainline freeway segments, namely, State Park Drive to Rio Del Mar Boulevard and Rio Del Mar Boulevard to Freedom Boulevard; and (b) three interchanges of SR 1, namely, State Park Drive, Rio Del Mar Boulevard and Freedom Boulevard, and associated ramps. Currently, there are no ramp meters for the on-ramps at these interchanges.

Figure 3-1 Map and Schematic of the Project Limits



Source: SR 1 Widening/HOV Lane Project (From Morrissey Road Boulevard to San Andreas Road) Traffic Operations Report, 2012; Google Maps - Street View; and CDM Smith.

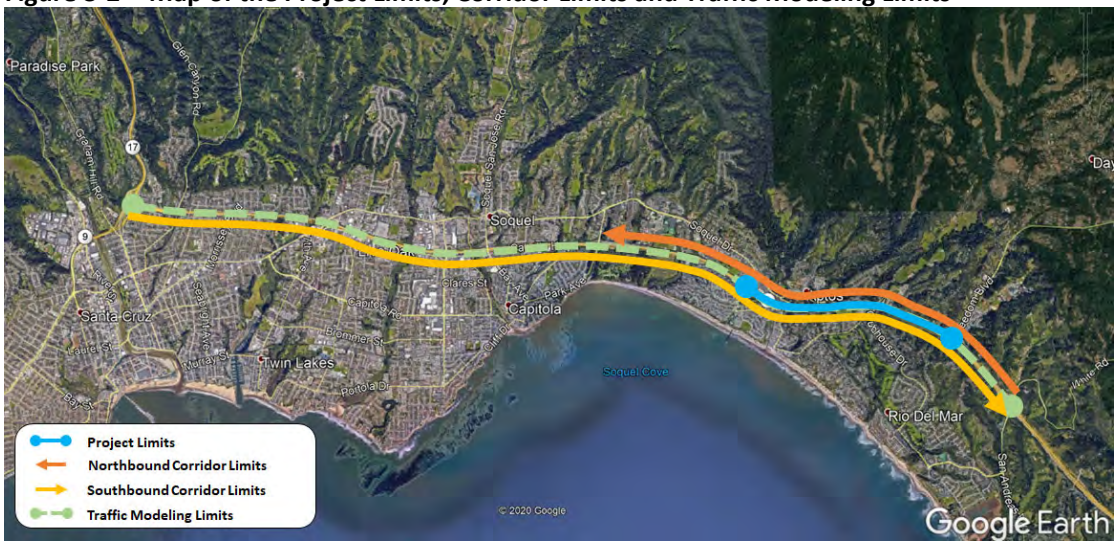
This traffic study will evaluate the traffic operations and safety impacts of the SR 1 auxiliary lanes and BOS improvements due to the Project. The traffic analysis was sometimes conducted over the extents going beyond the Project Limits. The extents used by analysis type are as follows:

Analysis limits for model calibration: The calibration of the model for the Existing (2019) conditions is conducted over the same "Traffic Modeling Limits" as used in the SR 1 Bay Avenue/Porter Street to State Park Drive Auxiliary Lanes and Bus on Shoulders Project. It extends over SR 1 from SR 17 in the north and Larkin Valley Road/San Andreas Road in the south. This allows the traffic study to account for the traffic flow impacts of bottlenecks beyond the Project Limits.

Analysis limits for traffic operation impacts: The Traffic Modeling Limits were defined from SR 1 freeway operation as the start point in the north to a low congestion location on SR 1 as the end point in the south. By going upstream of the Project Limits in the SR 1 northbound direction up to Larkin Valley Road, the downstream operational benefits/impacts of the Project between the low congestion location in the south and the congested Project Limits in the north are captured. In the SR 1 southbound direction, going upstream to SR 17 or Ocean Street extends the analysis to the end of the SR 1 freeway operation encompassing the upstream areas of southbound congestion, capturing the operational impacts of the Project in that direction of travel. These mainline segments will be referred to as the "Corridor Limits". Thus, the traffic operations impacts due to the Project were evaluated over the "Corridor Limits" as follows: SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road. It is noted that the northbound Corridor Limits are about 4.6 miles long while the southbound Corridor Limits are about 7.6 miles long. Hence, the total measures for traffic operations such as VMT, VHT and VHD in the southbound direction are generally expected to be higher in magnitude compared to the northbound direction.

The Traffic Modeling Limits and Corridor Limits as described above are shown in **Figure 3-2**, along with the Project Limits.

Figure 3-2 Map of the Project Limits, Corridor Limits and Traffic Modeling Limits



Source: Google Earth and CDM Smith.

Analysis limits for traffic safety impacts: Traffic safety data was collected to report the existing safety conditions and traffic safety impacts due to the Project were evaluated in this study. The analysis limits for the traffic safety impacts included the mainline segments within the Project Limits as well as the immediate upstream and downstream mainline segments adjacent to the Project Limits and ramps within the Project Limits. Thus, the traffic safety impacts due to the Project were evaluated over the following limits: SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from Park Avenue to Larkin Valley Road/San Andreas Road.

Section 4

Overview of Methodology

The traffic analysis followed Caltrans' Traffic Engineering Performance Assessment (TEPA) guidelines for a traffic engineering study. The key steps of the methodology are as follows:

4.1 Traffic Operations Analysis Methodology

The traffic operations analysis methodology consisted of the following sub-methods:

- **SR 1 mainline and ramps Existing (2019) traffic volumes estimation:** Weekday AM and PM period and daily total traffic volumes were estimated mainly using the latest available Caltrans 7-day hourly mainline and ramp traffic counts and growth trend in average annual daily traffic (AADT) data. The 7-day hourly counts were collected with the help of Caltrans District 5 Operations staff. SCCRTC's October 2016 weekday 15-minute interval mainline traffic counts were used to estimate 15-minute interval volumes. Using a methodology similar to the Tier II study for Bay Avenue/Porter Street to State Park Drive Auxiliary Lanes Project, a volume cap of 4,500 vehicles/hour coupled with a "peak spreading"[20] was assumed.

- **SR 1 mainline segments and ramps future (2025 and 2045) No Build traffic volumes forecasting:** Weekday AM and PM period and daily total traffic volumes were estimated using the Existing (2019) traffic volume estimates and compounded annualized growth rates by time period (AM peak, PM peak and off-peak) based on AMBAG's regional travel demand model developed for the 2040 Metropolitan Transportation Plan/Sustainable Communities Strategy.

- **Project related Induced Demand due to addition of auxiliary lanes:** Induced traffic volumes due to the addition of auxiliary lanes due to this Project and the background Tier II projects were estimated by scaling the induced traffic volume impacts of auxiliary lanes identified under the Tier I EIR/EA TSM Alternative on the basis of auxiliary lane-miles added. Induced demand in this study represents a VMT shift from local roads to SR 1 due to improved travel conditions on the freeway, and does not increase countywide VMT. The estimation methodology for the induced traffic volume impacts of the Tier I auxiliary lanes was documented in the CDM Smith memo to SCCRTC titled "Highway 1 Widening/HOV Lane Project – Estimation of Induced Traffic Demand and Congestion-Related Costs" dated August 16, 2017 and summarized in **Appendix A** of this report.

- **Project related Mode Shift due to increase in bus operations:** Growth in bus ridership on SR 1 by 2025 and 2045 were estimated using the data and a methodology similar to that of the Monterey-Salinas Transit, Monterey Bay Area Feasibility Study of Bus on Shoulder Operations on State Route 1 and the Monterey Branch Line, June 26, 2018. This

[20] Hourly SR 1 mainline volumes will be capped at 4,500 vehicles/hour. The excess hourly volume above the caps will be re-distributed to the neighboring hours of the day. The daily total volume served by SR 1 mainline and ramps will not be affected by this re-distribution.

methodology used in this study, however, made an improvement by using an end-to-end (Santa Cruz to Watsonville) bus travel time savings instead of the travel time savings just between transit stops near the Project Limits as done in the Monterey-Salinas Transit study and summarized in **Appendix A** of this report. Using estimated average bus ridership and SCCRTC's auto occupancy data, the decrease in auto travel and the reduction in traffic volume on SR 1 mainline segments in the Project Limits were determined. It is further noted that the express BOS service was not considered under the No Build conditions, and the ridership estimation is based on the travel time savings between the No Build and Build conditions as defined in this study (see **Section 3** of the report).

- **SR 1 mainline Existing speed and travel time estimates:** Hourly speeds and travel time estimates on the SR 1 mainline segments in the Project Limits were collected using Caltrans PeMS in the Fall of 2019 and SCCRTC's September 2016 INRIX speed and travel time data collected in a prior traffic study – the 2017 Traffic Analysis Update for Santa Cruz Highway 1 Widening/HOV Lane Project for SCCRTC (also referred as "the 2017 traffic study").

- **FREQ model-based Freeway Level of Service (LOS) and Other Impacts Analysis:** The analysis used FREQ models to collect freeway performance measures for all vehicles combined including model volumes (vehicles/hour), vehicle-miles traveled (VMT), vehicle hours traveled (VHT), density, vehicle hours of delay (VHD), level of service (LOS), average speed, travel time and delay per vehicle[21] by SR 1 mainline segment over the Corridor Limits. These models contain the SR 1 mainline and ramps beginning at SR 1/San Andreas Road/Larkin Valley Road interchange and ending at SR 1/SR 17/Ocean Street interchange, while including the mainline freeway segments within the Project Limits. The volume inputs to FREQ model were updated to the Existing Year (2019), Opening Year (2025) and Horizon Year (2045) under the No Build and Build conditions.

  - *Re-Calibration of Existing (2019) Conditions FREQ Model:* In the 2017 study, capacities on the SR 1 mainline segments between SR 17 and Larkin Valley Road/San Andreas Road were calibrated using October 2016 volume-speed studies. No freeway network changes were seen since the 2017 study, so these capacities were used without any changes in this study. However, hourly volume shares under the Existing (2019) conditions estimated using Caltrans' historical 7-day hourly counts in the peak directions of flow (identified as the northbound in AM and the southbound in PM) were adjusted over a few iterations until the estimated speeds based on the FREQ model were close enough to the observed speeds using Caltrans PeMS (plus INRIX) data. A comparison statistic (Chi-square value) was then estimated with Caltrans PeMS (plus INRIX) speed as "observed value" and FREQ model output speed as "predicted value" to test the goodness of fit or the speed validation result.

  - *Freeway Level of Service (LOS):* Level of service (LOS) is a term used to qualitatively describe the operating conditions of a roadway. Level of service of a facility is designated with a letter, A to F, with A representing the best operating conditions and F the worst. Freeway level of service (LOS) is defined in terms of the traffic density in

[21] Using free flow speed (FFS) as a threshold, which was calibrated as 62 mph for freeway segments.

passenger cars per mile per lane (pcpmpl). The density ranges for various LOS are shown in **Table 4-1**.

Table 4-1 Freeway Level of Service Definitions

Level of Service	Description	Density Range (in pcpmpl)
A	Free-flow operations at free-flow speed, vehicles are almost completely unimpeded in their ability to maneuver within the traffic stream, the effects of incidents are easily absorbed	<=11
B	Reasonably free-flow operations at free-flow speed, the ability to maneuver within the traffic stream is only slightly restricted, the effects of minor incidents are absorbed	> 11-18
C	Flow with speeds near the free-flow speed, freedom to maneuver within the traffic stream is noticeably restricted, queues may be expected to form behind any significant blockages	> 18-26
D	Speeds begin to decline with increasing flows, with density increasing more quickly, freedom to maneuver within the traffic is extremely limited, even minor incidents can be expected to create queuing	> 26-35
E	Operations at or near capacity, no usable gaps within the traffic stream, any disruption to the traffic stream propagates throughout the upstream traffic stream, incidents produce a serious breakdown and substantial queuing	> 35-45
F	Unstable flow, conditions exist within queues forming behind bottlenecks or behind breakdowns, upstream conditions (in the queue) will likely operate at LOS F speeds and densities, queue spillback effects seen	Demand exceeds capacity OR density > 45

Source: Highway Capacity Manual, 6th Edition, 2016.

- *Project Evaluation Criteria used in this Study*: In this study, the traffic operations under the Project scenarios were evaluated against the following criteria[22]:
  - *In an AM/PM peak period analysis, LOS D or better and average speed of 45 mph or higher was considered as a satisfactory operating condition.*
  - *In an AM/PM peak hour analysis, LOS E or better and average speed of 35 mph or higher was considered as a satisfactory operating condition.*

  The intent with the above criteria is for discussion purposes only and not to determine significance of traffic impacts. In addition to the above evaluation, summaries of the daily and AM and PM peak periods VMT, VHT and VHD are also reported in this report.

4.2 Traffic Safety Analysis Methodology

The traffic safety analysis methodology consisted of the following sub-methods:

- **No Build Conditions Safety Analysis:** Historical (January 2010 to December 2019) collisions data for SR 1 mainline segments and ramps from the Caltrans Traffic Accident Surveillance and Analysis System (TASAS) were collected from Caltrans District 5 Safety via the Caltrans Public Records Portal. They were combined with the estimates of traffic volumes under the No Build conditions to estimate the expected number of collisions under the No Build conditions. Collision characteristics such as severity, number of vehicles involved, primary collision factor and type of collision were also assessed.
- **Project Related Safety Analysis:** The analysis assessed the safety benefits of "adding auxiliary lanes" and "education and enforcement" due to the Project. For "adding auxiliary

[22] The criteria were proposed by the consultant team and reviewed by Caltrans District 5. They are not based on any existing Caltrans guidelines.

lanes," a crash modification factor (CMFs) of 0.79 was adopted from the FHWA's CMF clearing house[23]. For "education and enforcement", a CMF of 0.9 was adopted from the SCCRTC's Solutions for Congested Corridors Program (SCCP) Grant Application for SR 1 Improvements Project. While both CMFs were applied using an additive method to the mainline segments in the Project Limits with auxiliary lanes, only the CMF for education and enforcement was applied to the ramps and adjacent upstream and downstream mainline segments.

More details on the methodology and sub-methods can be found in **Appendix A** of this report.

[23] Ray et al. crash modification factor study for "Add continuous auxiliary lane for weaving between entrance ramp and exit ramp" type project, 2011. Available at: http://www.cmfclearinghouse.org/study_detail.cfm?stid=403 (last accessed on August 5, 2020)

Section 5

Existing (2019) and Existing (2019) Build Conditions Assessment

This section compares the traffic operations and safety performance results under the Existing (2019) and Existing (2019) Plus Build conditions.

5.1 Traffic Operational Performance

This sub-section includes a discussion of the Existing (2019) and Existing (2019) Plus Build infrastructure and capacities. It also includes comparisons for the Existing (2019) and Existing (2019) Plus Build conditions in terms of traffic operational performance within the Corridor Limits during the AM and PM peak periods and peak hours, freeway conditions (volume over capacity and bottlenecks) in the peak directions of travel by SR 1 mainline segment and 15-minute time interval, and level of service (LOS) and average speed by SR 1 mainline segment.

5.1.1 Infrastructure and Capacities

Table 5-1 and **Table 5-2** show the segment length (in feet), number of lanes and capacity (in vehicles/hour) by SR 1 mainline segment in the northbound and southbound directions, respectively, as coded in the FREQ Traffic Modeling Limits under the Existing (2019) conditions. It is seen that the capacities[24] on SR 1 mainline segments in the northbound direction are in the range of 3,600-5,600 vehicles/hour and that on SR 1 mainline segments in the southbound direction are in the range of 3,800-6,150 vehicles/hour.

Under the Existing (2019) Plus Build conditions, the Project will add mainline segment capacity[25] within the Project Limits. It was assumed that the capacities on the segment numbers (#s) 5 and 7 in the northbound direction would increase to 5,600 vehicles/hour, while the capacities on the segment numbers (#s) 19 and 21 in the southbound direction would increase to 6,100 vehicles/hour. These are close to the nearby directional capacities on the existing SR 1 segments with auxiliary lanes. Therefore, the directional capacities on the Project segments increase from a range of 3,950-4,300 vehicles/hour to a range of 5,600-6,100 vehicles/hour. This results in a vehicle throughput increase between interchanges but within the Project Limits but not through the interchanges. The added mainline segment capacity would also benefit congested upstream mainline segments operationally by providing additional storage space for the queued upstream vehicles.

No adjustments were made to the capacities within the limits of the background auxiliary lane projects under the Existing (2019) and Existing (2019) Plus Build conditions.

---

[24] The capacities are referring to FREQ traffic operations model mainline segment capacities as calibrated in the 2017 traffic study.
[25] The capacity is referring to FREQ traffic operations model mainline segment capacity with and without auxiliary lanes as calibrated in the 2007 traffic study.

Table 5-1 Existing (2019) Lanes and Capacity by SR 1 Mainline Segment in the Northbound Direction

Seg. #	SR 1 Mainline Segment Description	Seg. Length (ft)	No. of Lanes	Capacity (vehicles/hour)
1	S/O Larkin Valley Road off	3,400*	2	4,100
2	Larkin Valley Road off – on	1,970	2	4,100
3	Larkin Valley Road on - Freedom Boulevard off	1,830	2	4,100
4	Freedom Boulevard off – on	2,010	2	4,100
5	Freedom Boulevard on - Rio Del Mar Boulevard off	2,445	2	4,100
6	Rio Del Mar Boulevard off – on	1,890	2	4,100
7	Rio Del Mar Boulevard on - State Park Drive off	5,320	2	4,100
8	State Park Drive off - northbound State Park Drive on	880	2	3,900
9	northbound State Park Drive on - southbound State Park Drive on	1,125	2	3,900
10	southbound State Park Drive on - Park Avenue off	6,320	2	4,100
11	Park Avenue off – on	2,050	2	4,100
12	Park Avenue on - Bay Avenue/Porter Street off (merge area)	2,560	2	4,400
13	Park Avenue on - Bay Avenue/Porter Street off (diverge area)	1,400	2	4,400
14	Bay Avenue/Porter Street off – on	1,320	2	4,400
15	Bay Avenue/Porter Street on - 41st Avenue off	540	3	5,600
16	41st Avenue off - northbound 41st Avenue on	1,230	2	4,400
17	northbound 41st Avenue on - southbound 41st Avenue on	890	2	4,400
18	southbound 41st Avenue on - Soquel Drive off	4,840	2	4,400
19	Soquel Drive off - northbound Soquel Drive on	530	2	3,800
20	northbound Soquel Drive on - southbound Soquel Drive on	1,040	2	4,400
21	southbound Soquel Drive on - Morrissey Boulevard off	2,810	3	5,600
22	Morrissey Boulevard off – on	1,850	2	4,400
23	Morrissey Boulevard on - Emeline Avenue off	2,390	3	5,600
24	Emeline Avenue off - SR 17 off	960	3	5,600
25	SR 17 off - Fishhook	1,400	2	3,600

Source: Existing (2019) conditions northbound (AM or PM) FREQ Model.

*Note: Segment length for Seg #1 in the SR 1 northbound AM FREQ model was artificially increased to 12,900 feet to capture the end of queues. For the purposes of averaging performance measures, this was reduced to a measured interchange to interchange SR 1 mainline segment length of 3,400 feet, the same as SR 1 northbound PM FREQ model. In the above table, "on" = on-ramp, "off" = off-ramp.

Legend:	Upstream/Downstream Links	Adjacent Links	Project Limits

Table 5-2 Existing (2019) Lanes and Capacity by SR 1 Mainline Segment in the Southbound Direction

Seg. #	SR 1 Mainline Segment Description	Seg. Length (ft)	No. of Lanes	Capacity (vehicles/hour)
1	N/O Ocean Street on	500*	2	3,850
2	Ocean Street on - SR 17 on	2,070	2	3,850
3	SR 17 on - Fairmount Avenue off	2,300	3	5,700
4	Fairmount Avenue off – on	1,020	3	5,700
5	Fairmount Avenue on - Morrissey Boulevard on	710	3	5,700
6	Morrissey Boulevard on - Soquel Drive off	3,820	3	6,150
7	Soquel Drive off – on	1,220	2	4,400
8	Soquel Drive on - 41st Avenue off	4,810	2	4,100
9	41st Avenue off - southbound 41st Avenue on	1,370	2	4,000
10	southbound 41st Avenue on - northbound 41st Avenue on	660	2	4,400
11	northbound 41st Avenue on - Bay Avenue/Porter Street off	790	3	6,100
12	Bay Avenue/Porter Street off – on	1,460	2	4,100
13	Bay Avenue/Porter Street on - Park Avenue off (merge area)	1,400	2	3,970
14	Bay Avenue/Porter Street on - Park Avenue off (diverge area)	2,600	2	3,970
15	Park Avenue off – on	2,010	2	3,900
16	Park Avenue on - State Park Drive off	6,120	2	3,850
17	State Park Drive off - southbound State Park Drive on	1,240	2	4,300
18	southbound State Park Drive on - northbound State Park Drive on	930	2	4,100
19	northbound State Park Drive on - Rio Del Mar Boulevard off	5,330	2	3,950
20	Rio Del Mar Boulevard off – on	2,830	2	3,800
21	Rio Del Mar Boulevard on - Freedom Boulevard off	1,660	2	4,300
22	Freedom Boulevard off – on	2,270	2	4,400
23	Freedom Boulevard on - Larkin Valley Road off	3,040	2	4,100
24	Larkin Valley Road off – on	2,190	2	4,200
25	S/O Larkin Valley Road on	2,400	3	6,150

Source: Existing (2019) conditions southbound (AM or PM) FREQ Model.

*Note: Segment length for Seg #1 in the SR 1 southbound PM FREQ model was artificially increased to 6,300 feet to capture the end of queues. For the purposes of averaging performance measures, this was reduced to a measured interchange to interchange SR 1 mainline segment length of 500 feet, the same as SR 1 southbound AM FREQ model. In the above table, "on" = on-ramp, "off" = off-ramp.

Legend:	Upstream/Downstream Links	Adjacent Links	Project Limits

5.1.2 Estimated Traffic Volumes and Average Speeds

Table 5-3 and **Table 5-4** show a summary level comparison of the estimated AM peak period, PM peak period and daily total volumes under the Existing (2019) and Existing (2019) Plus Build conditions over SR 1 mainline segments and ramps within the Project Limits in the northbound and southbound directions, respectively.

Under the Existing (2019) and Existing (2019) Plus Build conditions, no mainline demand volume capping or peak spreading was required. The Project added auxiliary lanes are expected to have an induced additional mainline average demand of 345 vehicles/day[26] in the Existing (2019) Plus Build conditions on average in each direction, which is roughly 0.73 percent of the mainline average traffic volume under the Existing (2019) conditions. However, none of that induced demand was allocated to northbound AM peak period as the presence of a downstream

[26] Using average of northbound and southbound daily change in induced demand between No Project and Project scenarios as per **Table 3-3** of this report

bottleneck results in delay and travel time increases in this direction and analysis time period. As a consequence of this, the traffic volume does not increase in the northbound AM peak period and peak hour under the Build conditions over the No Build conditions. The Project would avoid about 30 vehicles/day[27] on average in the Existing (2019) Plus Build conditions in each direction of travel due to bus service changes and the related increase in estimated transit ridership. This is about 0.06 percent of the mainline daily average traffic volume under the Existing (2019) conditions. Overall, the Project has small impacts on the mainline average and ramp volumes in the Existing Year (2019).

[27] Using half of the bi-directional daily total vehicles avoided due to Project as per **Table 3-4** of this report

Table 5-3 Estimated Weekday Volumes (in vehicles) by SR 1 Northbound Mainline Segments and Ramps within the Project Limits, Existing (2019) versus Existing (2019) Plus Build

Location	Existing (2019) Volumes (vehicles)					Existing (2019) Plus Build Volumes (vehicles)					% Difference, Build over No Build				
	AM		PM			AM		PM			AM		PM		
	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total
Mainline Average	18,900	3,335	14,190	2,785	47,800	18,880	3,330	14,270	2,800	48,200	-0.1%	-0.1%	0.6%	0.5%	0.8%
On-Ramps Total	11,350	2,470	8,910	1,490	26,200	11,350	2,470	8,950	1,495	26,600	0.0%	0.0%	0.4%	0.3%	1.5%
Off-Ramps Total	5,840	1,130	6,090	1,110	15,300	5,840	1,130	6,120	1,115	15,500	0.0%	0.0%	0.5%	0.5%	1.3%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Mainline average, on-ramps total and off-ramps total were computed for SR 1 northbound segment numbers (#s) 3 through 10 in **Table 5-1**. The daily volumes are rounded to the nearest 100 vehicles, the peak period volumes are rounded to the nearest 10 vehicles and the peak hour volumes are rounded to the nearest 5 vehicles. The percentage changes reported at the daily level are thus less precise compared to that at the peak period and peak hour levels.

Table 5-4 Estimated Weekday Volumes (in vehicles) by SR 1 Southbound Mainline Segments and Ramps within the Project Limits, Existing (2019) versus Existing (2019) Plus Build

Location	Existing (2019) Volumes (vehicles)					Existing (2019) Plus Build Volumes (vehicles)					% Difference, Build over No Build				
	AM		PM			AM		PM			AM		PM		
	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total
Mainline Average	15,580	3,070	19,690	3,890	47,000	15,690	3,095	19,820	3,910	47,300	0.7%	0.8%	0.7%	0.5%	0.6%
On-Ramps Total	5,110	1,250	6,960	1,290	15,500	5,150	1,260	7,010	1,300	15,500	0.8%	0.8%	0.7%	0.8%	0.0%
Off-Ramps Total	7,070	1,090	10,400	1,750	24,300	7,110	1,100	10,450	1,760	24,700	0.6%	0.9%	0.5%	0.6%	1.6%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Mainline average, on-ramps total and off-ramps total were computed for SR 1 southbound segment numbers (#s) 16 through 23 in **Table 5-2**. The daily volumes are rounded to the nearest 100 vehicles, the peak period volumes are rounded to the nearest 10 vehicles and the peak hour volumes are rounded to the nearest 5 vehicles. The percentage changes reported at the daily level are thus less precise compared to that at the peak period and peak hour levels.

Figure 5-1 and **Figure 5-2** show the calculated year 2019 speed heatmaps in the AM and PM peak periods over the Traffic Modeling Limits (as defined before) based on Caltrans PeMS observed plus INRIX based imputed data and the Existing (2019) conditions FREQ model, respectively. The FREQ model produced speed patterns similar to the Caltrans PeMS observed plus INRIX based imputed speeds.

Figure 5-1 SR 1 Northbound 2019 Speed Heatmaps Comparison under Existing (2019) Conditions over the Traffic Modeling Limits

Caltrans PeMS plus INRIX 2019 Observed Speeds Heatmap

SR 1 - Northbound

Watsonville → Santa Cruz

		Larkin Valley Rd Off to Larkin Valley Rd On	Larkin Valley Rd On to Freedom Blvd Off	Freedom Blvd Off to Freedom Blvd On	Freedom Blvd On to Rio Del Mar Blvd Off	Rio Del Mar Blvd Off to Rio Del Mar Blvd On	Rio Del Mar Blvd On to State Park Dr Off	State Park Dr Off to State Park Dr On	State Park Dr On to Park Ave Off	Park Ave Off to Park Ave On	Park Ave On to Bay Ave/Porter St Off	Bay Ave/Porter St Off to Bay Ave/Porter St On	Bay Ave/Porter St On to 41st Ave Off	41st Ave Off to 41st Ave On	41st Ave On to Soquel Ave Off	Soquel Ave Off to Soquel Ave On	Soquel Ave On to Morrissey Blvd Off	Morrissey Blvd Off to Morrissey Blvd On	Morrissey Blvd On to SR 17 Off	SR 17 Off to SR 17 On
AM Period	6-7	41	35	40	39	42	45	45	54	56	55	56	55	60	59	58	58	61	52	64
	7-8	23	9	9	13	19	24	25	36	37	37	37	37	40	41	48	62	62	63	65
	8-9	54	9	9	9	15	19	19	24	22	22	23	23	26	29	44	61	61	62	64
	9-10	61	38	30	19	24	27	27	33	32	32	33	33	30	33	43	61	61	62	61
	10-11	66	63	61	56	52	49	46	45	46	46	47	47	30	32	44	62	62	63	63
	11-12	65	66	63	64	63	62	61	60	60	59	61	60	48	51	53	64	63	64	64
PM Period	14-15	66	65	65	64	64	63	62	62	63	66	67	66	55	56	56	65	64	65	65
	15-16	66	66	65	64	62	61	60	59	60	66	67	66	61	60	61	65	64	65	65
	16-17	66	63	60	57	56	56	54	57	58	66	68	66	57	56	57	65	65	66	66
	17-18	66	66	63	59	56	55	54	53	54	66	68	66	60	59	61	65	65	66	66
	18-19	66	67	65	63	59	58	57	57	59	66	67	66	63	62	62	65	65	66	66
	19-20	67	67	66	66	66	67	64	64	65	67	68	66	65	64	64	66	66	66	67

Existing (2019) Condition FREQ Model Predicted Speeds Heatmap

SR 1 - Northbound

Watsonville → Santa Cruz

		Larkin Valley Rd Off to Larkin Valley Rd On	Larkin Valley Rd On to Freedom Blvd Off	Freedom Blvd Off to Freedom Blvd On	Freedom Blvd On to Rio Del Mar Blvd Off	Rio Del Mar Blvd Off to Rio Del Mar Blvd On	Rio Del Mar Blvd On to State Park Dr Off	State Park Dr Off to State Park Dr On	State Park Dr On to Park Ave Off	Park Ave Off to Park Ave On	Park Ave On to Bay Ave/Porter St Off	Bay Ave/Porter St Off to Bay Ave/Porter St On	Bay Ave/Porter St On to 41st Ave Off	41st Ave Off to 41st Ave On	41st Ave On to Soquel Ave Off	Soquel Ave Off to Soquel Ave On	Soquel Ave On to Morrissey Blvd Off	Morrissey Blvd Off to Morrissey Blvd On	Morrissey Blvd On to SR 17 Off	SR 17 Off to SR 17 On
AM Period	6-7	55	51	41	45	39	46	42	54	57	57	59	62	61	59	59	61	60	62	62
	7-8	19	14	10	29	20	36	25	43	38	40	33	54	61	45	39	51	58	62	62
	8-9	32	15	12	28	18	29	19	26	19	25	20	34	18	27	27	45	58	62	62
	9-10	62	50	18	29	20	31	21	30	25	33	23	29	17	29	29	45	59	62	62
	10-11	62	62	62	62	62	57	43	43	32	36	27	31	21	33	31	47	60	62	62
	11-12	62	62	62	61	62	61	62	59	61	57	61	62	62	54	45	48	58	62	62
PM Period	14-15	62	62	62	62	62	61	62	61	62	58	61	62	62	59	60	62	61	62	62
	15-16	62	62	62	62	62	61	62	62	62	60	62	62	62	60	60	62	61	62	62
	16-17	62	62	62	61	62	62	62	62	62	61	62	62	62	62	62	62	62	62	62
	17-18	62	62	62	61	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
	18-19	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
	19-20	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62

Legend for Speed Data:

Green	Greater than 55 mph
Yellow	45 to 55 mph
Orange	35 to 45 mph
Red	25 to 35 mph
Dark Red	Less than 25 mph

Source: 2019 Caltrans PeMS Speeds; October 2016 INRIX Speeds; Existing (2019) conditions FREQ Model; CDM Smith's FREQ Model Calibration.

Note: *Traffic Modeling Limits* = SR 1 between SR 17 and Larkin Valley Road/San Andreas Road

Figure 5-2 SR 1 Southbound 2019 Speed Heatmaps Comparison under Existing (2019) Conditions over the Traffic Modeling Limits

Caltrans PeMS plus INRIX 2019 Observed Speeds Heatmap

SR 1 - Southbound

Santa Cruz → Watsonville

		SR 17 Off to SR 17 On	SR 17 On to Morrissey Blvd Off	Morrissey Blvd Off to Morrissey Blvd On	Morrissey Blvd On to Soquel Ave Off	Soquel Ave Off to Soquel Ave On	Soquel Ave On to 41st Ave Off	41st Ave Off to 41st Ave On	41st Ave On to Bay Ave/Porter St Off	Bay Ave/Porter St Off to Bay Ave/Porter St On	Bay Ave/Porter St On to Park Ave Off	Park Ave Off to Park Ave On	Park Ave On to State Park Dr Off	State Park Dr Off to State Park Dr On	State Park Dr On to Rio Del Mar Blvd Off	Rio Del Mar Blvd Off to Rio Del Mar Blvd On	Rio Del Mar Blvd On to Freedom Blvd Off	Freedom Blvd Off to Freedom Blvd On	Freedom Blvd On to Larkin Valley Rd Off	Larkin Valley Rd Off to Larkin Valley Rd On
AM Period	6-7	53	60	60	68	68	68	68	66	68	68	68	66	67	68	68	68	66	70	74
	7-8	53	60	61	53	52	62	61	59	63	63	65	62	63	64	64	64	62	68	74
	8-9	51	58	60	42	41	58	60	58	62	62	63	61	62	62	62	62	62	68	74
	9-10	50	56	57	58	57	61	63	61	62	63	65	62	63	62	62	63	63	69	75
	10-11	52	59	59	56	56	59	62	60	62	62	64	60	62	61	62	62	64	69	75
	11-12	55	62	63	56	55	58	60	58	61	61	64	59	61	60	61	62	63	68	74
PM Period	14-15	51	53	47	28	24	34	29	28	49	55	60	54	55	56	58	59	61	67	73
	15-16	45	36	25	18	17	13	16	15	31	38	42	43	44	46	52	52	58	67	74
	16-17	46	39	26	14	13	8	11	10	16	19	17	34	35	43	52	53	58	67	74
	17-18	45	40	26	12	11	8	11	11	19	21	18	32	30	46	54	55	59	68	76
	18-19	48	53	44	28	26	24	20	20	28	31	29	40	39	52	58	59	60	67	74
	19-20	53	61	62	60	57	55	53	51	57	57	59	57	57	60	61	62	61	68	73

Existing (2019) Condition FREQ Model Predicted Speeds Heatmap

SR 1 - Southbound

Santa Cruz → Watsonville

		SR 17 Off to SR 17 On	SR 17 On to Morrissey Blvd Off	Morrissey Blvd Off to Morrissey Blvd On	Morrissey Blvd On to Soquel Ave Off	Soquel Ave Off to Soquel Ave On	Soquel Ave On to 41st Ave Off	41st Ave Off to 41st Ave On	41st Ave On to Bay Ave/Porter St Off	Bay Ave/Porter St Off to Bay Ave/Porter St On	Bay Ave/Porter St On to Park Ave Off	Park Ave Off to Park Ave On	Park Ave On to State Park Dr Off	State Park Dr Off to State Park Dr On	State Park Dr On to Rio Del Mar Blvd Off	Rio Del Mar Blvd Off to Rio Del Mar Blvd On	Rio Del Mar Blvd On to Freedom Blvd Off	Freedom Blvd Off to Freedom Blvd On	Freedom Blvd On to Larkin Valley Rd Off	Larkin Valley Rd Off to Larkin Valley Rd On
AM Period	6-7	50	55	62	62	62	62	62	62	62	62	62	62	62	62	61	61	62	62	65
	7-8	50	55	62	62	62	60	61	62	49	57	62	61	62	61	61	59	62	61	64
	8-9	50	55	62	62	62	57	61	62	48	59	62	61	62	62	61	61	62	62	65
	9-10	50	55	62	62	62	58	61	62	55	58	62	62	62	62	61	61	62	62	65
	10-11	50	55	62	62	62	57	62	62	61	59	62	61	62	62	61	61	62	62	65
	11-12	50	55	62	62	62	57	62	62	62	58	62	60	62	62	61	61	62	62	65
PM Period	14-15	50	55	62	58	42	35	24	24	24	52	47	52	62	55	58	56	62	60	65
	15-16	50	55	62	22	11	14	12	13	17	32	23	52	61	53	57	54	62	60	64
	16-17	43	25	13	11	10	13	10	11	14	26	20	43	22	47	57	54	62	61	65
	17-18	42	27	13	12	11	13	10	12	16	29	19	36	16	46	58	56	62	61	65
	18-19	50	55	62	47	32	27	21	19	23	37	27	40	45	52	60	59	62	62	65
	19-20	50	55	62	62	62	62	62	62	62	62	62	44	62	62	61	61	62	62	65

Legend for Speed Data:	
Green	Greater than 55 mph
Yellow	45 to 55 mph
Orange	35 to 45 mph
Red	25 to 35 mph
Dark Red	Less than 25 mph

Source: 2019 Caltrans PeMS Speeds; October 2016 INRIX Speeds; Existing (2019) conditions FREQ Model; CDM Smith's FREQ Model Calibration.

Note: *Traffic Modeling Limits* = SR 1 between SR 17 and Larkin Valley Road/San Andreas Road

Table 5-5 shows the chi-square statistics[28] computed for the Existing (2019) conditions FREQ model predicted speeds in comparison to Caltrans PeMS plus INRIX 2019 observed speeds aggregated hourly and by mainline segment (that is, values in **Figure 5-1** and **Figure 5-2**) over

[28] A chi-square ($\chi 2$) statistic is a test that measures how a model compares to actual observed data. The formula for chi-square statistic is: $X_c^2 = \sum \frac{(O_i - E_i)^2}{E_i}$, where c = degrees of freedom, O = observed value, and E = expected value (or model predicted value).

AM and PM peak periods for the Traffic Modeling Limits, and the Project Limits and its adjacent segments combined. The estimated chi-square statistic values under both these extents were low enough that the Existing (2019) conditions FREQ model can be considered to replicate the Existing (2019) and observed speed conditions.

Table 5-5 Chi-Square Statistic for Comparisons of 2019 Speeds between Existing (2019) Conditions FREQ Model Predicted Speeds to Caltrans PeMS plus INRIX Observed Speeds

Chi-Square Statistic over Traffic Modeling Limits (SR 17 to Larkin Valley Road)			Chi-Square Statistic over Project Limits + Adj. Segments (Park Avenue to Larkin Valley Road)		
SR 1 northbound	SR 1 southbound	Total	SR 1 northbound	SR 1 southbound	Total
260	323	**583**	120	43	**163**

Source: 2019 Caltrans PeMS Speeds; October 2016 INRIX Speeds; Existing (2019) conditions FREQ Model; CDM Smith's FREQ Model Calibration.

Note: *Traffic Modeling Limits* = SR 1 between SR 17 and Larkin Valley Road/San Andreas Road. Peak period: 6 AM-12 PM, 2-8 PM.

5.1.3 FREQ Based Traffic Operational Performance within Corridor Limits

FREQ models were used to analyze the freeway traffic operational performance under the Existing (2019) (also presented in the *Existing Conditions* memorandum of this study) and Existing (2019) Plus Build scenarios. **Table 5-6** shows a comparison of their performance.

Based on the FREQ model outputs, the Existing (2019) scenario fails to meet the set freeway operational performance (LOS, average speed) criteria during the northbound AM and southbound PM peak periods. The density-based freeway level of service (LOS) in the peak direction of southbound PM under the Existing (2019) conditions is F in both the peak hours and the peak periods. The LOS in the peak direction of northbound AM under the Existing (2019) conditions is F in the peak hour and E in the peak period. The non-peak directions (northbound PM and southbound AM) have satisfactory levels of service of LOS C or better in both the peak hours and the peak periods. In the peak directions, the average speeds reach 23-29 mph during the peak hours, and 32-35 mph during the peak periods.

Compared to the Existing (2019) scenario, the directional and time period VMTs in the Existing (2019) Plus Build scenario would have limited changes (0.1-0.6 percent increase depending on the direction and time period). The increase in vehicle throughput and induced demand (in all except the northbound AM peak period) are the key reasons for the small but positive VMT increase. The VMT reduction due the BOS operations is not adequate to offset the VMT increase related to added freeway capacity.

Compared to the Existing (2019) scenario, the directional and time period VHTs in the Existing (2019) Plus Build scenario would be higher by 2.4 percent in the northbound AM peak period, while it would reduce by 3.2 percent in the southbound PM. There is a limited change in the VHTs (0.5-0.7 percent) in the non-peak directions. A similar pattern is seen with the average speeds. Density in the Existing (2019) Plus Build scenario on the other hand, would improve over the Existing (2019) scenario under all analysis directions and time periods. **Sections 5.1.4 and 5.1.5** provide data and reasoning for the changes in VHT, average speeds and delays.

Table 5-6 Summary of Traffic Operational Performance within Corridor Limits by Direction and Time Period, Existing (2019) No Build versus Existing (2019) Build

Dir. of Movmt. & Time Period	Perf. Measure	Analysis Duration	Existing (2019)	Existing (2019) Plus Build
SR 1 northbound AM peak period	Volume (vph)	Peak Hour	3,270	3,271
		Peak Period	3,142	3,146
	VMT (veh-mi)	Peak Hour	16,840	16,843
		Peak Period	97,070	97,205
	VHT (veh-hrs)	Peak Hour	590	588
		Peak Period	2,747	2,814
	VHD (veh-hrs)	Peak Hour	318	317
		Peak Period	1,181	1,246
	Density (pcpmpl)	Peak Hour	57.2	46.8
		Peak Period	44.4	38.6
	LOS	Peak Hour	F	F
		Peak Period	E	E
	Avg. Speed (mph)	Peak Hour	29	29
		Peak Period	35	35
	Delay (min/veh)	Peak Hour	5.8	5.8
		Peak Period	3.8	4.0
SR 1 northbound PM peak period	Volume (vph)	Peak Hour	2,822	2,847
		Peak Period	2,400	2,416
	VMT (veh-mi)	Peak Hour	14,535	14,659
		Peak Period	74,149	74,648
	VHT (veh-hrs)	Peak Hour	235	236
		Peak Period	1,200	1,206
	VHD (veh-hrs)	Peak Hour	0	0
		Peak Period	4	2
	Density (pcpmpl)	Peak Hour	22.8	20.6
		Peak Period	19.4	17.5
	LOS	Peak Hour	C	C
		Peak Period	C	B ↑
	Avg. Speed (mph)	Peak Hour	62	62
		Peak Period	62	62
	Delay (min/veh)	Peak Hour	0.0	0.0
		Peak Period	0.0	0.0

Dir. of Movmt. & Time Period	Perf. Measure	Analysis Duration	Existing (2019)	Existing (2019) Plus Build
SR 1 southbound AM peak period	Volume (vph)	Peak Hour	3,042	3,052
		Peak Period	2,873	2,890
	VMT (veh-mi)	Peak Hour	28,896	28,996
		Peak Period	163,737	164,715
	VHT (veh-hrs)	Peak Hour	486	486
		Peak Period	2,738	2,755
	VHD (veh-hrs)	Peak Hour	14	12
		Peak Period	54	55
	Density (pcpmpl)	Peak Hour	24.0	22.7
		Peak Period	22.4	21.3
	LOS	Peak Hour	C	C
		Peak Period	C	C
	Avg. Speed (mph)	Peak Hour	59	60 ↑
		Peak Period	60	60
	Delay (min/veh)	Peak Hour	0.2	0.0
		Peak Period	0.2	0.0
SR 1 southbound PM peak period	Volume (vph)	Peak Hour	3,470	3,532
		Peak Period	3,391	3,410
	VMT (veh-mi)	Peak Hour	32,962	33,554
		Peak Period	193,281	194,344
	VHT (veh-hrs)	Peak Hour	1,419	1,402
		Peak Period	6,045	5,851
	VHD (veh-hrs)	Peak Hour	877	851
		Peak Period	2,872	2,661
	Density (pcpmpl)	Peak Hour	66.7	63.7
		Peak Period	48.6	45.1
	LOS	Peak Hour	F	F
		Peak Period	F	F
	Avg. Speed (mph)	Peak Hour	23	24 ↑
		Peak Period	32	33 ↑
	Delay (min/veh)	Peak Hour	15.2	14.5
		Peak Period	8.5	7.8

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).

In terms of the set freeway operational performance criteria (LOS, average speed), the Existing (2019) Plus Build scenario would underperform under the northbound AM and southbound PM peak periods. The LOS in the peak directions (northbound AM and southbound PM) under the Existing (2019) Plus Build conditions in both the peak hours and peak periods would be the same

as the Existing (2019) conditions. However, the LOS in the non-peak directions (northbound PM and southbound AM) would improve slightly. The average speeds in the peak directions would still be low, 24-29 mph during the peak hours, and 33-35 mph during the peak periods. Overall, under the Existing (2019) conditions, the Project seems to be strongly dependent on other SR 1 improvements in both directions of travel.

The southbound PM is the main direction and time period where a delay reduction would be achieved due to the Project. The unit delay reduction in the peak period and peak hour is expected to be less than 1 minute per vehicle. In the southbound PM, the total delay reduction is expected to be 212 vehicle-hours in the peak period and 26 vehicle-hours in the peak hour in the Existing Year (2019). The delay reduction is small in part due to the fact that the prior two auxiliary lanes phases (P1 and P2) to the north of the Project Limits are not included in the Existing (2019) scenario.

5.1.4 FREQ Based Condition Diagrams in Peak Directions

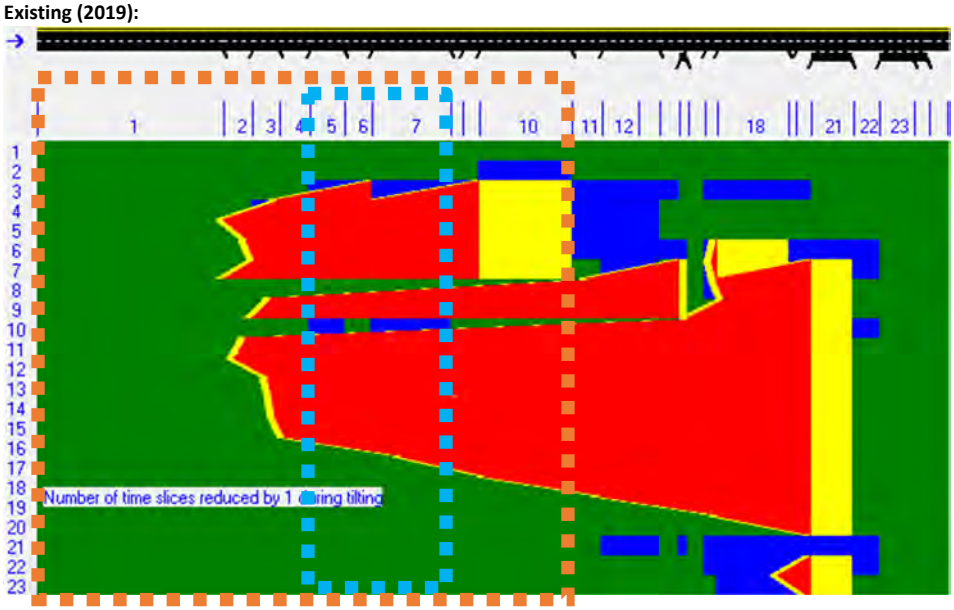
FREQ model provides a graphical display of the freeway conditions. The FREQ freeway condition diagram is a time-space diagram that uses 24 time slices representing the 15-minute intervals in a 4-hour time period arranged in rows; and freeway mainline segments arranged in columns with widths proportional to the segment lengths. The diagram uses the following colors: (a) green = free-flow conditions; (b) blue = near capacity conditions (0.9 <= volume over capacity <= 1.0); (c) yellow = bottleneck (volume over capacity = 1.0); and (d) red = congested flow conditions.

Figure 5-3 and **Figure 5-4** show comparisons of the congestion on SR 1 under the Existing (2019) and Existing (2019) Plus Build scenarios, only in the peak directions of travel (that is, the northbound in AM and the southbound in PM) over the Traffic Modeling Limits. The congestion in the non-peak directions of travel (that is, northbound PM and southbound AM) is nominal, hence not shown. Segments 1-10 in the northbound direction and segments 1-23 in the southbound direction represent the Corridor Limits.

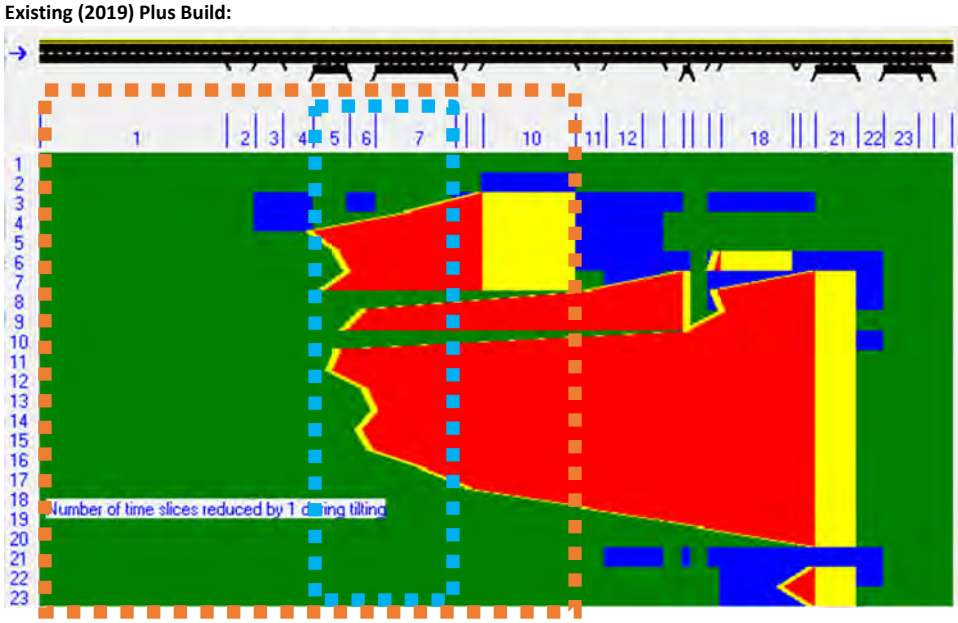
The elimination of bottlenecks in the southbound direction within the Project Limits (segments #19 and #21) was found to improve the freeway operation conditions. The decrease in VHT and increase in average speed within the Corridor Limits in the southbound PM peak period are results of this. However, in the case of the northbound AM peak period, there is an increase in VHT or reduction in average speed due to the presence of a downstream bottleneck north of the Soquel Avenue interchange. This downstream bottleneck caps the vehicle throughput in the northbound direction. Further, the elimination of the bottlenecks in the northbound direction within the Project Limits (segments #5 and #7) was found to draw vehicles sooner to the queue developing from the downstream bottleneck and thus intensifies the queuing delays and increases VHT.

Figure 5-3 Freeway Condition Diagram in the Northbound AM Peak Direction, Existing (2019) versus Existing (2019) Plus Build over Traffic Modeling Limits

Existing (2019):



Existing (2019) Plus Build:



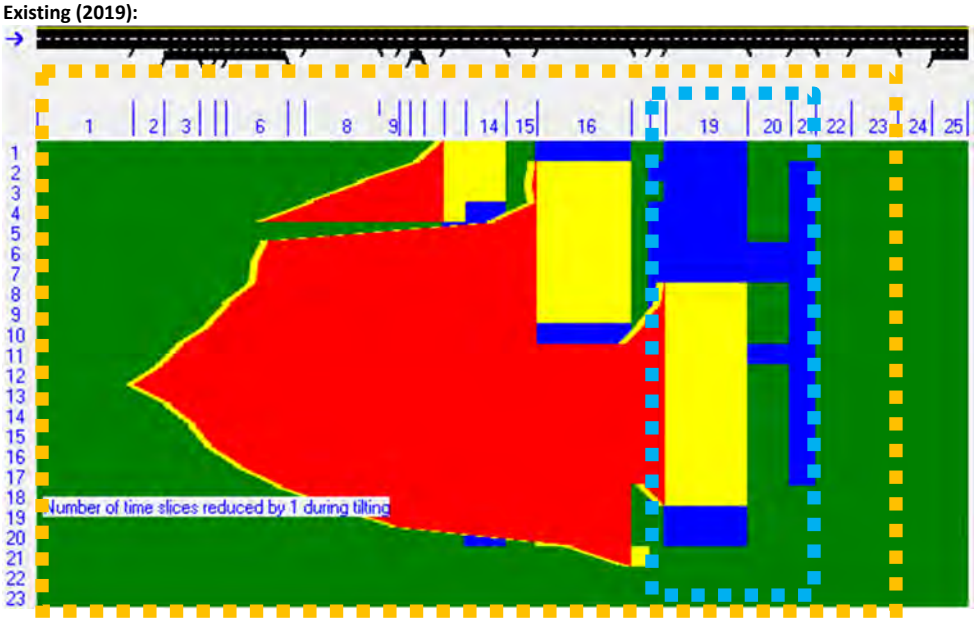
Project Limits northbound Corridor Limits

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

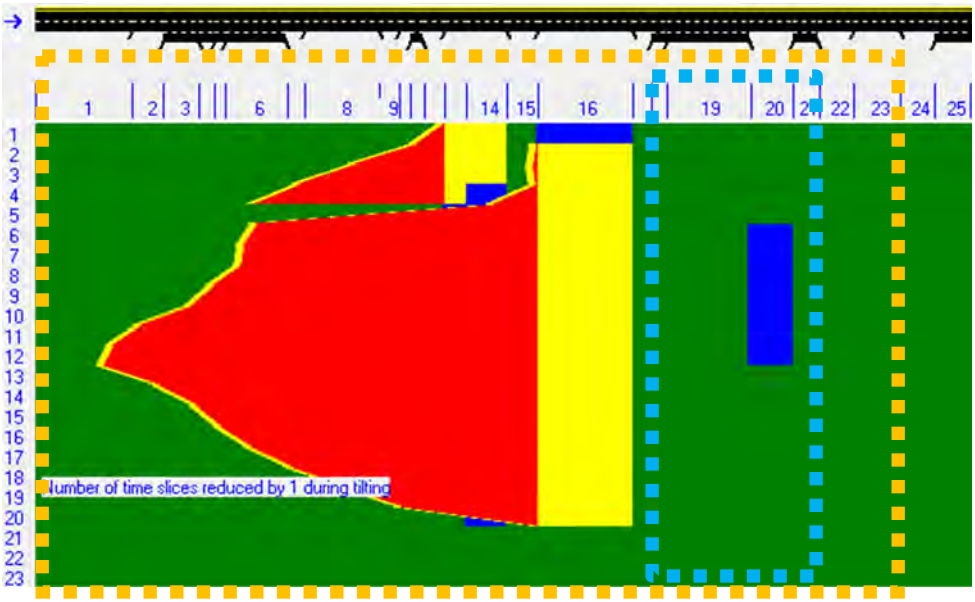
Note: Color key: (a) green = free-flow conditions; (b) blue = near capacity conditions (0.9 <= volume over capacity <= 1.0); (c) yellow = bottleneck (volume over capacity = 1.0); and (d) red = congested flow conditions. Segments 5-7 represent the Project Limits. Segments 1-10 represent the Corridor Limits. For the peak directions of travel, the first upstream mainline segment was artificially increased in length to capture the end of queue. This resulted in travel time under free-flow conditions becoming longer than the time interval (that is, 15 minutes) of analysis. Similar to the 2017 traffic study, a "tilting control" option was therefore selected in the FREQ model for the operational analysis of the peak directions of travel. This option reduced the time slices by one (that is, 23 instead of 24 time slices).

Figure 5-4 Freeway Condition Diagram in the Southbound PM Peak Direction, Existing (2019) versus Existing (2019) Plus Build over Traffic Modeling Limits

Existing (2019):



Existing (2019) Plus Build:



Project Limits southbound Corridor Limits

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Color key: (a) green = free-flow conditions; (b) blue = near capacity conditions (0.9 <= volume over capacity <= 1.0); (c) yellow = bottleneck (volume over capacity = 1.0); and (d) red = congested flow conditions. Segments 18-21 represent the Project Limits. Segments 1-23 represent the Corridor Limits. For the peak directions of travel, the first mainline segment was artificially increased in length to capture the end of queue. This resulted in travel time under free-flow conditions becoming longer than the time interval (that is, 15 minutes) of analysis. Similar to the 2017 traffic study, a "tilting control" option was therefore selected in the FREQ model for the operational analysis of the peak directions of travel. This option reduces time slices by one (that is, 23 instead of 24 time slices).

5.1.5 FREQ based Level of Service (LOS) by Mainline Segment within Corridor Limits

Freeway traffic density-based LOS on the mainline segments varies along the length of SR 1. Traffic densities are higher and average speeds are lower upstream of a bottleneck, and densities are lower and average speeds are higher downstream of the bottleneck. By eliminating a bottleneck within the Project Limits, traffic service rate would improve, queues formed in the mainline segments upstream of the Project Limits would shorten, and densities would become more uniform. At the same time, the traffic inflow rate to the mainline segments downstream of the Project Limits would increase. If this results in the volume to capacity ratio of the mainline segments downstream of the Project Limits exceeding 1.0, then a new bottleneck may be formed. In cases where this is an existing downstream bottleneck, the conditions in the Project Limits would worsen although conditions further upstream of the Project Limits would improve.

In this study, the density, on average, within the Corridor Limits in both the northbound AM and southbound PM peak periods was found to decrease due to the Project. So, unlike the VHT changes, the existing downstream bottleneck north of Soquel Avenue interchange was found as not impacting the traffic density in the northbound AM peak period in the Existing Year (2019).

Table 5-7 and **Table 5-8** show the LOS by SR 1 mainline segment and time period under the Existing (2019) and Existing (2019) Plus Build scenarios in the northbound and southbound directions, respectively. In the northbound AM and southbound PM peak periods, the Project improves operating conditions broadly, within the Project Limits and Corridor Limits. In the northbound AM peak period, large but local speed improvements would occur on SR 1 both within the Project Limits and upstream of the Project Limits from Larkin Valley Road off-ramp to Rio Del Mar on-ramp (about 2 miles). In the southbound PM peak period too, large but local speed improvements would occur on SR 1 both within the Project Limits and upstream of the Project Limits from Park Avenue on-ramp to Freedom Boulevard off-ramp (about 3 miles).

Table 5-7 Level of Service (LOS) in the SR 1 Northbound Direction by Mainline Segment and Time Period, Existing (2019) versus Existing (2019) Plus Build

Mainline Segment	Dist.	Existing (2019)						Existing (2019) Plus Build					
		AM Peak Period			PM Peak Period			AM Peak Period			PM Peak Period		
		Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.
	ft	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph
S/O Larkin Valley Road off	3,400	20.0	C	62	16.7	B	62	20.0	C	62	16.8	B	62
Larkin Valley Road off – on	1,970	29.1	D	40	15.9	B	62	19.3	C ↑	62 ↑	16.0	B	62
Larkin Valley Road on - Freedom Boulevard off	1,830	49.5	F	28	18.0	C	62	22.6	C ↑	61 ↑	18.1	C	62
Freedom Boulevard off – on	2,010	65.0	F	20	16.8	B	62	21.3	C ↑	62 ↑	16.9	B	62
Freedom Boulevard on - Rio Del Mar Boulevard off	2,445	45.8	F	37	21.0	C	62	23.2	C ↑	48 ↑	14.0	B ↑	62
Rio Del Mar Boulevard off – on	1,890	56.2	F	28	17.8	B	62	44.1	E ↑	35 ↑	18.0	B	62
Rio Del Mar Boulevard on - State Park Drive off	5,320	46.3	F	39	21.3	C	62	59.6	F	21	14.2	B ↑	62
State Park Drive off - northbound State Park Drive on	880	53.2	F	29	17.3	B	62	54.9	F	28	17.4	B	62
northbound State Park Drive on - southbound State Park Drive on	1,125	50.3	F	32	18.5	C	62	51.4	F	32	18.7	C	62
southbound State Park Drive on - Park Avenue off	6,320	46.4	F	40	21.9	C	62	46.8	F	39	22.1	C	62
Corridor Limits: Project Limits + Adj. & U/S Links	**27,190**	**44.4**	**E**	**35**	**19.4**	**C**	**62**	**38.6**	**E**	**35**	**17.5**	**B ↑**	**62**

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm. In the above table, "on" = on-ramp, "off" = off-ramp.

Legend:	Upstream/Downstream Links	Adjacent Links	Project Limits

Table 5-8 Level of Service (LOS) in the SR 1 Southbound Direction by Mainline Segment and Time Period, Existing (2019) versus Existing (2019) Plus Build

Mainline Segment	Dist.	Existing (2019)						Existing (2019) Plus Build					
		AM Peak Period			PM Peak Period			AM Peak Period			PM Peak Period		
		Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.
	ft	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph
N/O Ocean Street on	500	14.8	B	50	22.5	C	50	15.0	B	50	23.7	C	48
Ocean Street on - SR 17 on	2,070	20.2	C	50	28.1	D	47	20.4	C	50	33.1	D	41
SR 17 on - Fairmount Avenue off	2,300	20.3	C	55	33.6	D	40	20.4	C	55	36.4	E	38
Fairmount Avenue off - on	1,020	16.6	B	62	42.3	E	28	16.7	B	62	44.4	E	28
Fairmount Avenue on - Morrissey Boulevard on	710	17.6	B	62	47.6	F	26	17.7	B	62	49.3	F	25
Morrissey Boulevard on - Soquel Drive off	3,820	19.3	C	62	60.7	F	21	19.4	C	62	62.9	F	21
Soquel Drive off – on	1,220	22.9	C	62	82.0	F	17	23.1	C	62	81.0	F	17
Soquel Drive on - 41st Avenue off	4,810	28.6	D	59	84.4	F	19	28.9	D	58	83.7	F	19
41st Avenue off - southbound 41st Avenue on	1,370	22.0	C	62	85.5	F	15	22.2	C	62	84.4	F	15
southbound 41st Avenue on - northbound 41st Avenue on	660	23.6	C	62	93.7	F	15	23.7	C	62	93.0	F	15
northbound 41st Avenue on - Bay Avenue/Porter Street off	790	18.6	C	62	74.5	F	17	18.7	C	62	74.0	F	17
Bay Avenue/Porter Street off – on	1,460	26.3	D	56	77.1	F	20	27.2	D	54	76.5	F	20
Bay Avenue/Porter Street on - Park Avenue off (merge area)	1,400	27.5	D	59	50.8	F	36	27.7	D	59	50.0	F	37 ↑
Bay Avenue/Porter Street on - Park Avenue off (diverge area)	2,600	27.5	D	59	51.5	F	35	27.7	D	59	50.6	F	36 ↑
Park Avenue off – on	2,010	20.8	C	62	59.6	F	27	20.9	C	62	59.2	F	27
Park Avenue on - State Park Drive off	6,120	23.3	C	61	41.9	E	44	23.5	C	61	35.1	E	53 ↑
State Park Drive off - southbound State Park Drive on	1,240	19.3	C	62	47.6	F	33	19.4	C	62	25.3	C ↑	62 ↑
southbound State Park Drive on - northbound State Park Drive on	930	21.4	C	62	43.9	E	41	14.4	B ↑	62	19.1	C ↑	62 ↑
northbound State Park Drive on - Rio Del Mar Boulevard off	5,330	22.5	C	62	34.6	D	54	15.0	B ↑	62	19.9	C ↑	62 ↑
Rio Del Mar Boulevard off – on	2,830	19.9	C	61	27.0	D	59	20.0	C	61	27.2	D	58
Rio Del Mar Boulevard on - Freedom Boulevard off	1,660	22.8	C	61	32.1	D	56	15.2	B ↑	61	19.7	C ↑	61 ↑
Freedom Boulevard off – on	2,270	19.3	C	62	23.6	C	62	19.5	C	62	23.7	C	62
Freedom Boulevard on - Larkin Valley Road off	3,040	20.5	C	62	25.2	C	61	20.6	C	62	25.3	C	61
Corridor Limits: Project Limits + Adj. & U/S Links	**50,160**	**22.4**	C	**60**	**48.6**	F	**32**	**21.3**	C	**60**	**45.1**	F	**33**

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm. In the above table, "on" = on-ramp, "off" = off-ramp.

Legend:	Upstream/Downstream Links	Adjacent Links	Project Limits

5.1.6 Daily VMT, VHT and VHD within Corridor Limits

Table 5-9 shows the daily VMT, VHT and VHD under the Existing (2019) and Existing (2019) Plus Build scenarios and the associated changes in the northbound and southbound directions and within the Corridor Limits. It is noted that the northbound Corridor Limits are about 4.6 miles long while the southbound Corridor Limits are about 7.6 miles long. Hence, the total measures for traffic operations such as VMT, VHT and VHD in the southbound direction are generally expected to be higher in magnitude compared to the northbound direction. The level of congestion in terms of vehicle throughput and speed in the peak periods also affect the numerical differences between the two directions.

Table 5-9 Estimated Daily VMT, VHT and VHD in the SR 1 by Direction of Flow, Existing (2019) versus Existing (2019) Plus Build

Performance Measure / Unit	Direction	Existing (2019)	Existing (2019) Plus Build	Change	% Change
Daily VMT (veh-mi)	SR 1 northbound	247,330	248,250	920	0.4%
	SR 1 southbound	475,750	478,470	2,720	0.6%
Daily VHT (veh-hrs)	SR 1 northbound	5,170	5,250	80	1.5%
	SR 1 southbound	10,730	10,570	-160	-1.5%
Daily VHD (veh-hrs)	SR 1 northbound	1,190	1,250	60	5.0%
	SR 1 southbound	2,930	2,720	-210	-7.2%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).

Legend:	Increase	Decrease

In the northbound direction, a small increase in daily VMT occurs due to the VMT increase net of induced demand and express BOS service-related mode shift. This increase is attributed to northbound PM peak and off-peak periods but not northbound AM peak period, as no induced demand is assumed under the northbound AM peak period (see **Section 5.1.2** of this report for reasons behind this assumption). The vehicle throughput in the northbound direction is constrained by a downstream bottleneck north of Soquel Avenue interchange. This bottleneck impacts the "Corridor Limits" through increases in VHT and VHD in northbound AM peak period, which also shows as increases in the daily VHT and VHD.

On the other hand, in the southbound direction, daily VMT increases not only due to the VMT increase net of induced demand and express BOS service related mode shift, but also due to an increased vehicle throughput in the southbound direction achieved by the Project, especially in the southbound peak period. The benefits of bottleneck relief within the "Project Limits" result in large reductions in VHT and VHD in the southbound PM peak period, which also show as reductions in daily VHT and VHD.

Both directions combined, there is a net decrease in daily VHT and daily VHD of 80 vehicle-hours and 150 vehicle-hours, respectively. The percentage increase in daily VHD in the Existing (2019)

Plus Build scenario over the Existing (2019) scenario in the northbound direction is 5.0 percent while the percentage decrease in daily VHD in the southbound direction is 7.2 percent.

5.2 Traffic Safety Performance

This section presents the annual collisions analysis based on the Caltrans TASAS Table B collision rates using 10-year historical (2010-2019) collisions data on SR 1 mainline and ramps within the Project Limits and the comparison to the estimated annual collisions in the Existing (2019) Plus Build conditions.

Table 5-10 provides a summary of estimated annual collisions under the Existing (2019) conditions and comparisons to the Existing (2019) Plus Build for the freeway mainline and ramp segments within the Project Limits. It is expected that there would be 20 percent reduction in total collisions in the northbound direction and 17 percent reduction in total collisions in the southbound direction under the Build scenario compared to the No Build scenario in the Existing Year (2019). More detailed collision estimates (by Project scenario, and by mainline segment and ramp) are included in **Appendix G**.

Table 5-10 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions in 2019

Direction of Movement	Performance Measure	Existing (2019)	Existing (2019) Plus Build	No Build vs Build % Change
SR 1 northbound	Total Collisions / Year	107	86	20%
	Fatal Collisions / Year	0.300	0.250	17%
	Injury Collisions / Year	38	30	21%
	PDO Collisions / Year	69	55	20%
SR 1 southbound	Total Collisions / Year	49	40	17%
	Fatal Collisions / Year	0.200	0.159	20%
	Injury Collisions / Year	16	14	16%
	PDO Collisions / Year	32	26	18%

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions) and TSAR Summary for SR 1 Ramps (with non-state route area 4), Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CMF Clearing House, SCCRTC and CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments of the Project Limits where auxiliary lanes are added and adjacent upstream and downstream segments and ramps within the Project Limits. No Build represents existing highway (SR 1 mainline and ramps) geometry.

Table 5-11 and **Table 5-12** show the TASAS Table B data on actual collision rates based on 10-year historical collisions data over the SR 1 mainline and ramp segments within the Project Limits and adjacent segments and comparisons to statewide average collision rates. On all mainline segments, fatal collision rates are lower than the statewide average. On four out of eight mainline segments, fatal plus injury collision rates are higher than the statewide average. And five out of eight mainline segments total collision rates are higher than the statewide average. The mainline segments of Larkin Valley Road to Freedom Boulevard and Rio Del Mar Boulevard to State Park Drive in the northbound direction have the largest fatal plus injury and total collision rates.

Table 5-11 Summary of Safety Performance over SR 1 Mainline Segments within the Project Limits and Adjacent Segments under Existing (2019) Conditions

					Actual Accident Rates			Statewide Average			Is Actual Accident Rates		
ID	FROM PM	FROM Interchange	TO PM	TO Interchange	Fat	Fat+Inj	Total	Fat	Fat+Inj	Total	Fat	Fat+Inj	Total
		SR-1 Northbound											
1	R 7.702	San Andreas Blvd / Larkin Valley Rd	8.355	Freedom Blvd	0.000	0.60	1.60	0.005	0.20	0.59	NO	YES	YES
2	8.355	Freedom Blvd	9.153	Rio Del Mar Blvd	0.009	0.47	1.20	0.009	0.34	0.91	NO	YES	YES
3	9.153	Rio Del Mar Blvd	10.535	State Park Dr	0.000	0.71	1.90	0.009	0.34	0.91	NO	YES	YES
4	10.535	State Park Dr	12.304	NB On-Ramp from Park Ave	0.004	0.33	0.95	0.008	0.32	0.89	NO	YES	YES
		SR-1 Southbound											
5	11.951	SB On-Ramp from Park Ave	10.535	State Park Dr	0.000	0.31	0.75	0.009	0.33	0.90	NO	NO	NO
6	10.535	State Park Dr	9.153	Rio Del Mar Blvd	0.000	0.20	0.63	0.009	0.34	0.91	NO	NO	NO
7	9.153	Rio Del Mar Blvd	8.355	Freedom Blvd	0.009	0.12	0.45	0.009	0.34	0.91	NO	NO	NO
8	8.355	Freedom Blvd	R 7.702	San Andreas Blvd / Larkin Valley Rd	0.000	0.14	0.60	0.005	0.20	0.59	NO	NO	YES

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – Table B Rates for SR 1 Mainline.

On two out of fourteen ramps, fatal collision rates are higher than the statewide average. On four out of fourteen ramps, fatal plus injury collision rates are higher than the statewide average. Lastly, on four ramps total collision rates are higher than the statewide average. The ramp with the largest fatal, fatal plus injury and total collision rate is SR 1 on-ramp from Eastbound State Park Drive. SR 1 northbound off-ramp to Freedom Boulevard also has high fatal plus injury and total collision rates.

Table 5-12 Summary of Safety Performance over SR 1 Ramps within the Project Limits and Adjacent Segments under Existing (2019) Conditions

				Actual Accident Rates			Statewide Average			Is Actual Accident Rates >		
ID	Postmile	Interchange	Ramp Description	Fat	Fat+Inj	Total	Fat	Fat+Inj	Total	Fat	Fat+Inj	Total
9	8.184	Hwy 1 @ Freedom Blvd	NB Off-Ramp to Freedom Blvd	0.000	0.52	2.24	0.008	0.39	1.03	NO	YES	YES
10	8.271		SB On-Ramp from Freedom Blvd	0.000	0.17	0.35	0.002	0.23	0.63	NO	NO	NO
11	8.494		NB On-Ramp from Freedom Blvd	0.000	0.20	0.63	0.002	0.23	0.63	NO	NO	YES
12	8.611		SB Off-Ramp to Freedom Blvd	0.000	0.20	0.68	0.008	0.39	1.03	NO	NO	NO
13	9.011	Hwy 1 @ Rio Del Mar Blvd	SB On-Ramp from Rio Del Mar Blvd	0.000	0.07	0.56	0.002	0.23	0.63	NO	NO	NO
14	9.024		NB Off-Ramp to Rio Del Mar Blvd	0.062	0.06	0.74	0.008	0.39	1.03	YES	NO	NO
15	9.264		NB On-Ramp from Rio Del Mar Blvd	0.000	0.25	0.89	0.002	0.23	0.63	NO	YES	YES
16	9.461		SB Off-Ramp to Rio Del Mar Blvd	0.000	0.17	0.52	0.008	0.39	1.03	NO	NO	NO
17	10.381	Hwy 1 @ State Park Dr	SB On-Ramp from EB State Park Dr	0.157	0.79	1.26	0.004	0.24	0.70	YES	YES	YES
18	10.394		NB Off-Ramp to State Park Dr	0.000	0.04	0.40	0.008	0.39	1.03	NO	NO	NO
19	10.504		NB On-Ramp from EB State Park Dr	0.000	0.23	0.69	0.002	0.24	0.75	NO	NO	NO
20	10.561		SB On-Ramp from WB State Park Dr	0.000	0.06	0.45	0.002	0.24	0.75	NO	NO	NO
21	10.684		NB On-Ramp from WB State Park Dr	0.000	0.28	0.64	0.004	0.24	0.70	NO	YES	NO
22	10.711		SB Off-Ramp to State Park Dr	0.000	0.28	0.59	0.008	0.39	1.03	NO	NO	NO

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – Table B Rates for SR 1 Ramps.

Based on a review of TASAS Selective Accident Retrieval (TSAR) summary reports, the following safety characteristics were additionally observed on SR 1 mainline and ramps.

Safety Observations on the SR 1 Mainline:

- **Severity:** In both directions, about two-thirds of the collisions are PDO type, and the remaining are mostly injury type.
- **Number of vehicles involved:** While on average 63 percent of the collisions on all SR 1 northbound mainline segments involve two vehicles; on the SR 1 southbound mainline segments this is 50 percent on average. On the SR 1 southbound mainline segments, on average 42 percent of the collision involve single vehicle crashes, while on the SR 1 northbound mainline segments this is 19 percent on average. The remaining are crashes involving 3 or more vehicles.

- **Primary collision factor:** Speeding is the primary reason for collisions (over 50 percent on average) on SR 1 mainline segments. Other reasons such as improper turning and other violations play an important role in collisions on mainline in both directions of SR 1. Influence of alcohol is also a primary cause of collisions on the SR 1 southbound segments.
- **Type of collision:** While on average 68 percent of the collisions on all SR 1 northbound mainline segments are rear-end type; on the SR 1 southbound mainline segments this is 39 percent on average. On the SR 1 southbound mainline segments, on average 36 percent of collisions involved hit objects, while on the SR 1 northbound mainline segments this is 17 percent on average. Sideswipe incidents form around 10 percent of the collisions on the mainline in both directions of SR 1.

Safety Observations on SR 1 Ramps:

- **Severity:** Injury and PDO type collisions make widely varying percentage shares of the total accidents on SR 1 ramps.
- **Number of vehicles involved:** There are high rates of single vehicle collisions at the SR1/State Park Drive interchange ramps (52 percent of the total collisions) and SR1/Freedom Boulevard interchange ramps (40 percent of the total collisions), with the exception of SR 1 southbound and northbound on-ramps from Westbound State Park Drive and SR 1 southbound off-ramp to Freedom Boulevard, which have higher share of collisions involving two vehicles.
- **Primary collision factor:** While speeding is the dominant reason for collisions at all three interchanges; there are exceptions including SR 1 southbound on-ramp from Freedom Boulevard, SR 1 southbound off-ramp to Freedom Boulevard, SR 1 southbound on-ramp from Eastbound State Park Drive and SR 1 southbound off-ramp to State Park Drive, where influence of alcohol is a more important collision factor. Improper turn, failure to yield and other violations are also causing collisions.
- **Type of collision:** Collisions at all three interchanges are mainly rear-end type; there are exceptions including SR 1 northbound on-ramp from Freedom Boulevard, SR 1 northbound on-ramp from Rio Del Mar Boulevard and SR 1 southbound northbound off-ramp to State Park Drive, SR 1 where there are either high shares of hit fixed object type collisions or broadside collisions. On SR 1 southbound on-ramp from Rio Del Mar Boulevard and SR 1 northbound on-ramp from Rio Del Mar Boulevard, there is also a significant share of head-on collisions.

It is noted that the safety benefits of the Project in this study were quantiatively estimated using generalized crash modification factors applied on the total collisions, and not on specific collision types. However, qualitatively speaking, a reasonable share of the sideswipe collisions on the SR 1 mainline and the rear-end collisions on the SR 1 ramps could be attributed to merge/diverge operations under the absence of auxiliary lanes. These collisions may lead to an increased congestion on the SR 1 mainline (over and above the congestion created by the bottleneck segments within the Project Limits in the peak directions of travel) and thus create likelihood of other (secondary) collisions. In the SR 1 northbound direction, 95 out of 984 SR 1 mainline collisions between January 1, 2010 and December 31, 2019, that is, 9.7 percent collisions are sideswipe related; while 36 out of 88 SR 1 ramp collisions over the 10-year period, that is, 40.9 percent collisions are rear-end related. On the other hand, in the SR 1 southbound direction, 50 out of 419 SR 1 mainline collisions between January 1, 2010 and December 31, 2019, that is, 11.9

percent collisions are sideswipe related; while 31 out of 68 SR 1 ramp collisions over the 10-year period, that is, 45.6 percent collisions are rear-end related. Some of these collisions can be eliminated due to the auxiliary lane improvements.

Also, qualitatively speaking, bus on shoulder operations on the right shoulder are expected to temporarily elevate safety concerns due to conflicts between the bus on the outside (rightside) shoulder and the merging on-ramp traffic. Education and enforcement can help improve auto driver expectancy in such a bus-auto conflict situation and reduce the safety concerns over time. Other attributes of the BOS operation that limit safety concerns are: (a) Buses use the shoulder only if the mainline speed reduces to below 35 mph. The bus would maintain a maximum speed of 35 mph or 10 mph over the average speed on the SR 1 mainline, whichever is smaller. So, the relative speed between the buses and merging on-ramp traffic would be small in comparison to freeway merge operations under free flow; (b) Drivers of BOS service would be trained in handling a bus/auto conflict at the freeway merge area; (c) The frequency of the buses would range between 2 to 4 buses per hour, so the number of bus/auto conflicts will be small in comparison to auto/auto conflicts between right lane of the freeway and on-ramp. It is however noted that the average bus occupancy would be much higher compared to average auto occupancy.

Section 6

Opening Year (2025) No Build and Build Conditions Assessment

This section compares the traffic operations and safety performance results under the Opening Year (2025) No Build and Build conditions.

6.1 Traffic Operational Performance

This sub-section includes a discussion of the Opening Year (2025) No Build and Build changes in the infrastructure and capacities and growth in the estimated volumes over the Existing (2019) conditions. It also includes comparisons for the Opening Year (2025) No Build and Build conditions in terms of traffic operational performance measures within the Corridor Limits during the AM and PM peak periods and peak hours, freeway conditions (volume over capacity and bottlenecks) in the peak directions of travel by SR 1 mainline segment and 15-minute time interval, and level of service (LOS) and average speed by SR 1 mainline segment.

6.1.1 Infrastructure and Capacities

The infrastructure and capacities in the Opening Year (2025) No Build and Build scenarios were kept the same as the Existing (2019) and Existing (2019) Plus Build scenarios, respectively, except in the case of SR 1 mainline segments between Soquel Drive and 41st Avenue and between Bay Avenue/Porter Street to State Park Drive, where planned auxiliary lanes improvements are assumed to be operational at a capacity of 5,600 vehicles/hour and 6,100 vehicles/hour in the northbound and southbound directions. These capacity assumptions are consistent with the SCCRTC's SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR.

6.1.2 Estimated Traffic Volumes

Table 6-1 and **Table 6-2** show a summary level comparison of the estimated AM peak period, PM peak period and daily total volumes under the Opening Year (2025) No Build and Opening Year (2025) Build conditions over SR 1 mainline segments and ramps within the Project Limits in the northbound and southbound directions, respectively.

Average weekday daily mainline traffic on SR 1 under the No Build conditions and within the Project Limits is expected to grow between the Existing Year (2019) and the Opening Year (2025) by 4.2 percent in the northbound direction and 5.7 percent in the southbound direction. The growth rates were developed using the 2015 and 2040 assignment outputs from the AMBAG model and adjusted to account for the induced demand due to the background auxiliary lane projects (P1 and P2). Average weekday daily on-ramp traffic on SR 1 under No Build conditions is expected to grow between the Existing Year (2019) and the Opening Year (2025) by 3.4 percent in the northbound direction and 3.9 percent in the southbound direction. Similarly, average weekday daily off-ramp traffic on SR 1 under No Build conditions is expected to grow between the Existing Year (2019) and the Opening Year (2025) by 3.9 percent in the northbound direction and 3.3 percent in the southbound direction.

Table 6-1 Estimated Weekday Volumes (in vehicles) by SR 1 Northbound Mainline Segments and Ramps within the Project Limits, Opening Year (2025) No Build versus Opening Year (2025) Build

Location	Opening Year (2025) No Build Volumes (vehicles)					Opening Year (2025) Build Volumes (vehicles)					% Difference, Build over No Build				
	AM		PM			AM		PM			AM		PM		
	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total
Mainline Average	19,550	3,450	14,980	2,940	49,800	19,520	3,445	15,050	2,955	50,100	-0.2%	-0.1%	0.5%	0.5%	0.6%
On-Ramps Total	11,650	2,535	9,120	1,525	27,100	11,650	2,535	9,160	1,535	27,300	0.0%	0.0%	0.4%	0.7%	0.7%
Off-Ramps Total	6,120	1,200	6,290	1,145	15,900	6,120	1,200	6,320	1,150	16,000	0.0%	0.0%	0.5%	0.4%	0.6%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Mainline average, on-ramps total and off-ramps total were computed for SR 1 northbound segment numbers (#s) 3 through 10 in **Table 5-1**. The daily volumes are rounded to the nearest 100 vehicles, the peak period volumes are rounded to the nearest 10 vehicles and the peak hour volumes are rounded to the nearest 5 vehicles. The percentage changes reported at the daily level are thus less precise compared to that at the peak period and peak hour levels.

Table 6-2 Estimated Weekday Volumes (in vehicles) by SR 1 Southbound Mainline Segments and Ramps within the Project Limits, Opening Year (2025) No Build versus Opening Year (2025) Build

Location	Opening Year (2025) No Build Volumes (vehicles)					Opening Year (2025) Build Volumes (vehicles)					% Difference, Build over No Build				
	AM		PM			AM		PM			AM		PM		
	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total
Mainline Average	16,560	3,260	20,740	4,085	49,700	16,650	3,275	20,870	4,115	49,800	0.5%	0.5%	0.6%	0.7%	0.2%
On-Ramps Total	5,230	1,285	7,200	1,340	16,100	5,270	1,295	7,250	1,350	16,100	0.8%	0.8%	0.7%	0.7%	0.0%
Off-Ramps Total	7,340	1,135	10,750	1,810	25,100	7,380	1,140	10,800	1,820	25,300	0.5%	0.4%	0.5%	0.6%	0.8%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Mainline average, on-ramps total and off-ramps total were computed for SR 1 southbound segment numbers (#s) 16 through 23 in **Table 5-2**. The daily volumes are rounded to the nearest 100 vehicles, the peak period volumes are rounded to the nearest 10 vehicles and the peak hour volumes are rounded to the nearest 5 vehicles. The percentage changes reported at the daily level are thus less precise compared to that at the peak period and peak hour levels.

Under the Opening Year (2025) No Build and Opening Year (2025) Build conditions, no mainline demand volume capping or peak spreading was required in the peak directions of travel. However, the growth percentages in the AMBAG model varied by direction and time period as follows – northbound AM: 3.4 percent, northbound PM: 5.6 percent, southbound AM: 6.3 percent, and southbound PM: 5.3 percent. Hence, the peak directions would grow slower compared to the non-peak directions.

The Project added auxiliary lanes are expected to have an induced additional mainline average demand of 350 vehicles/day[29] in the Opening Year (2025) Build conditions on average in each direction, which is roughly 0.70 percent of the mainline average traffic volume under the Opening Year (2025) No Build conditions. Similar to the Existing (2019) Plus Build conditions, none of that induced demand was allocated to the northbound AM peak period as the presence of a downstream bottleneck results in delay and travel time increases in this direction and analysis time period. As a consequence of this, the traffic volume does not increase in the northbound AM peak period and peak hour under the Build conditions over the No Build conditions. The Project would avoid about 65 vehicles/day[30] on average in the Opening Year (2025) Build conditions in each direction of travel due to bus service changes and the related increase in estimated transit ridership. This is about 0.13 percent of the mainline daily average traffic volume under the Opening Year (2025) No Build conditions. Similar to the Existing (2019) Plus Build conditions, the Project has minimal impacts on the mainline average and ramp volumes in the Opening Year (2025).

6.1.3 FREQ Based Traffic Operational Performance within Corridor Limits

FREQ models were used to analyze the freeway traffic operational performance within the Corridor Limits under the Opening Year (2025) No Build and Build scenarios. **Table 6-3** shows a comparison of their performance.

Based on the FREQ model outputs, the Opening Year (2025) No Build scenario fails to meet the set freeway operational performance (LOS, average speed) criteria during the northbound AM and southbound PM peak periods. The presence of the background auxiliary lane projects (P1 and P2) slightly improves the freeway travel conditions (in terms of LOS and speed) compared to the Existing (2019) conditions but is not sufficient to offset the impacts due to the baseline growth in traffic, induced demand from the background projects and continued presence of bottlenecks within the Project Limits. An exception is the northbound AM peak period where travel conditions in the Opening Year (2025) No Build scenario are worse than the Existing (2019) conditions. This is attributed to the presence of a bottleneck downstream to the Project Limits as well as the background projects.

Further, it is noted that the peak period travel conditions are deteriorating in the Opening Year (2019) while the peak hour are improving comparing to the Existing Year (2019). This can be reasoned as follows: the downstream bottleneck north of Soquel Avenue interchange is active during the time intervals that are later than the peak hour within the Project Limits, and the downstream bottleneck also has a stronger traffic operational impact in terms of congestion

[29] Using average of northbound and southbound daily change in induced demand between No Project and Project scenarios as per **Table 3-3** of this report
[30] Using half of the bi-directional daily total vehicles avoided due to Project as per **Table 3-4** of this report

duration and queue lengths than the bottleneck within the Project Limits (see condition diagrams in **Section 6.1.4**). Hence, the differences in the peak period and peak hour performance.

Table 6-3 Summary of Traffic Operational Performance within Corridor Limits by Direction and Time Period, Opening Year (2025) No Build versus Opening Year (2025) Build

Dir. of Movmt. & Time Period	Perf. Measure	Analysis Duration	Opening Year (2025) No Build	Opening Year (2025) Build
SR 1 northbound AM peak period	Volume (vph)	Peak Hour	3,428	3,492
		Peak Period	3,251	3,255
	VMT (veh-mi)	Peak Hour	17,653	17,981
		Peak Period	100,445	100,559
	VHT (veh-hrs)	Peak Hour	555	575
		Peak Period	3,332	3,893
	VHD (veh-hrs)	Peak Hour	270	285
		Peak Period	1,712	2,272
	Density (pcpmpl)	Peak Hour	51.1	42.8
		Peak Period	46.7	47.0
	LOS	Peak Hour	F	E ↑
		Peak Period	F	F
	Avg. Speed (mph)	Peak Hour	32	31
		Peak Period	30	26
	Delay (min/veh)	Peak Hour	4.7	4.9
		Peak Period	5.3	7.0
SR 1 northbound PM peak period	Volume (vph)	Peak Hour	2,979	3,000
		Peak Period	2,537	2,555
	VMT (veh-mi)	Peak Hour	15,341	15,447
		Peak Period	78,396	78,937
	VHT (veh-hrs)	Peak Hour	249	249
		Peak Period	1,270	1,273
	VHD (veh-hrs)	Peak Hour	1	0
		Peak Period	6	0
	Density (pcpmpl)	Peak Hour	22.1	19.7
		Peak Period	18.8	16.7
	LOS	Peak Hour	C	C
		Peak Period	C	B ↑
	Avg. Speed (mph)	Peak Hour	62	62
		Peak Period	62	62
	Delay (min/veh)	Peak Hour	0.0	0.0
		Peak Period	0.0	0.0

Dir. of Movmt. & Time Period	Perf. Measure	Analysis Duration	Opening Year (2025) No Build	Opening Year (2025) Build
SR 1 southbound AM peak period	Volume (vph)	Peak Hour	3,154	3,241
		Peak Period	3,024	3,027
	VMT (veh-mi)	Peak Hour	29,965	30,793
		Peak Period	172,394	172,559
	VHT (veh-hrs)	Peak Hour	497	507
		Peak Period	2,839	2,835
	VHD (veh-hrs)	Peak Hour	7	3
		Peak Period	13	6
	Density (pcpmpl)	Peak Hour	21.9	20.8
		Peak Period	20.6	19.3
	LOS	Peak Hour	C	C
		Peak Period	C	C
	Avg. Speed (mph)	Peak Hour	60	61
		Peak Period	61	61 ↑
	Delay (min/veh)	Peak Hour	0.1	0.0
		Peak Period	0.0	0.0
SR 1 southbound PM peak period	Volume (vph)	Peak Hour	3,526	3,894
		Peak Period	3,533	3,581
	VMT (veh-mi)	Peak Hour	33,498	36,992
		Peak Period	201,373	204,116
	VHT (veh-hrs)	Peak Hour	1,520	692
		Peak Period	6,953	3,506
	VHD (veh-hrs)	Peak Hour	969	84
		Peak Period	3,648	156
	Density (pcpmpl)	Peak Hour	62.4	28.0
		Peak Period	47.9	23.9
	LOS	Peak Hour	F	D ↑
		Peak Period	F	C ↑
	Avg. Speed (mph)	Peak Hour	22	53 ↑
		Peak Period	29	58 ↑
	Delay (min/veh)	Peak Hour	16.5	1.3
		Peak Period	10.3	0.4

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).

The freeway LOS in the peak directions (northbound AM and southbound PM) under the Opening Year (2025) No Build conditions is F in both the peak hour and the peak period. The non-peak

directions (northbound PM and southbound AM) have satisfactory levels of service of C or better in both the peak hour and the peak period. In the peak directions, the average speeds reach 22-32 mph during the peak hours, and 29-30 mph during the peak periods.

Compared to the Opening Year (2025) No Build scenario, the directional and time period VMTs in the Opening Year (2025) Build scenario would have limited changes (0.1-1.4 percent increase depending on the direction and time period). The reasons for the increase remain the same as that for the Existing Year (2019).

Compared to the Opening Year (2025) No Build scenario, the directional and time period VHTs in the Opening Year (2025) Build scenario would be higher by 16.9 percent in the northbound AM peak period, while it would reduce by 49.6 percent in the southbound PM. There is a limited change in the VHTs (around zero percent) in the non-peak directions. A similar pattern is seen with the average speeds. Density in the Opening Year (2025) Build scenario would improve over the Opening Year (2025) No Build scenario under all analysis directions and time periods, except in the northbound AM peak period. The reasons for these changes remain the same as that for the Existing Year (2019).

In terms of the set freeway operational performance criteria (LOS, average speed), the Opening Year (2025) Build scenario would achieve a satisfactory level in the southbound PM both in the peak period and peak hour. The LOS and average speed criteria would not be met simultaneously in the northbound AM peak direction. The LOS in the northbound AM peak hour under the Opening Year (2025) Build conditions would improve from LOS F to LOS E, while that in the peak period would remain LOS F. The average speed in the southbound PM would improve to 53 mph in the peak hour and 58 mph in the peak period. The average speed in the northbound AM would fall to 31 mph in the peak hour and 26 mph in the peak period. Overall, the Project (P3) is of critical importance to the series of phased auxiliary lane projects on SR 1 (P1 and P2 in the earlier phases), particularly in the southbound direction in the PM peak period.

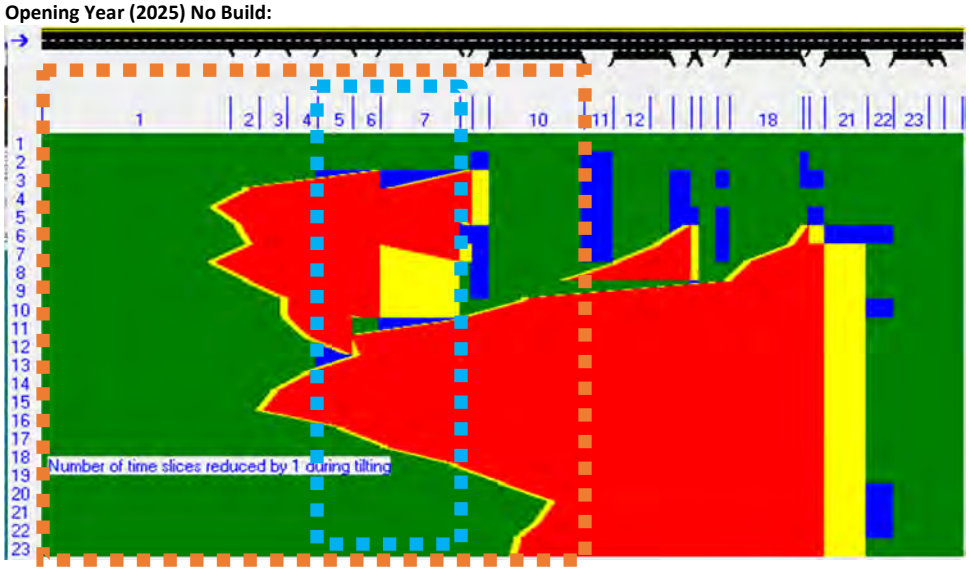
The southbound PM traffic would have a substantial delay reduction due to the Project. The unit delay reduction in the peak period and peak hour are expected to be 10 minutes per vehicle and 15 minutes per vehicle, respectively. In the southbound PM, the total delay reduction is expected to be 3,492 vehicle-hours (or 95 percent reduction) in the peak period and 884 vehicle-hours (or 91 percent reduction) in the peak hour in the Opening Year (2025).

6.1.4 FREQ Based Condition Diagrams in Peak Directions

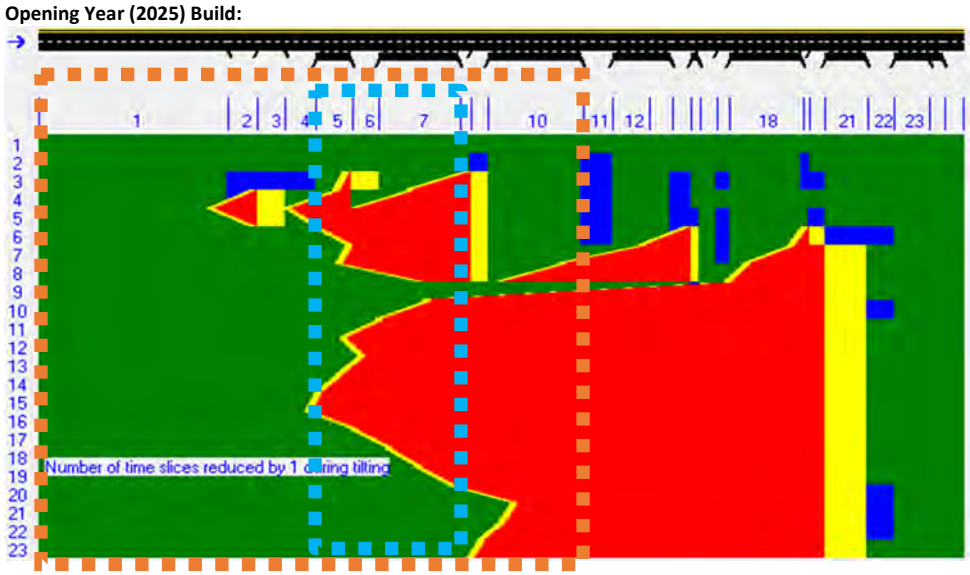
As mentioned in **Section 5.1.4**, FREQ model provides a graphical display of the freeway travel conditions. **Figure 6-1** and **Figure 6-2** show comparisons of the congestion on SR 1 under the Opening Year (2025) No Build and Build scenarios, only in the peak directions of travel (the northbound in AM and the southbound in PM). The congestion in the non-peak directions of travel (northbound PM and southbound AM) is nominal, hence not shown. The elimination of bottlenecks within the Project Limits improves the freeway operation conditions in the southbound PM peak direction substantially. The northbound AM peak direction achieves minor improvements in congestion that span over a short section (segment #s 2-4), and over a short time interval (interval #s 4-12, representing 6:45 am to 8:00 am).

Figure 6-1 Freeway Condition Diagram in Northbound AM Peak Direction, Opening Year (2025) No Build versus Opening Year (2025) Build

Opening Year (2025) No Build:



Opening Year (2025) Build:



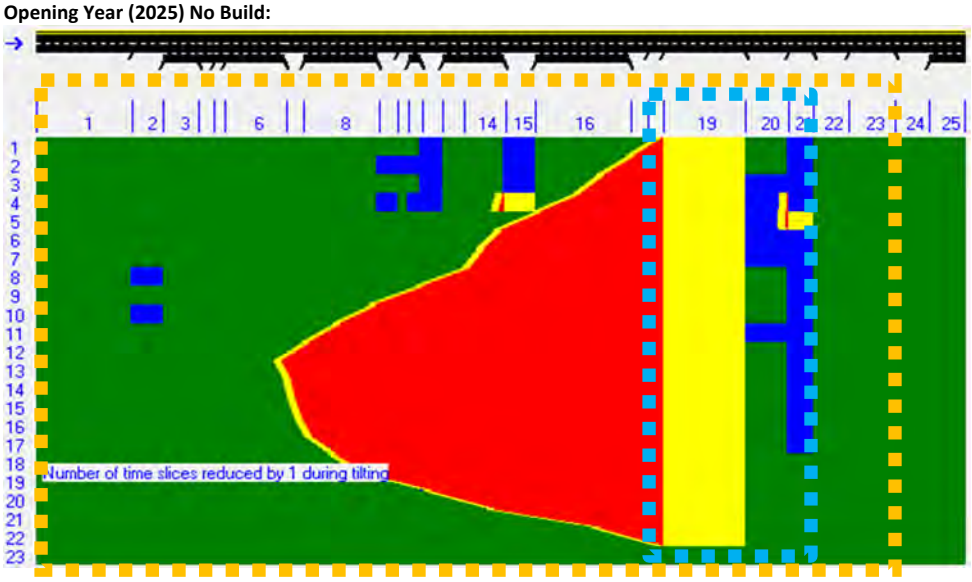
Project Limits northbound Corridor Limits

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

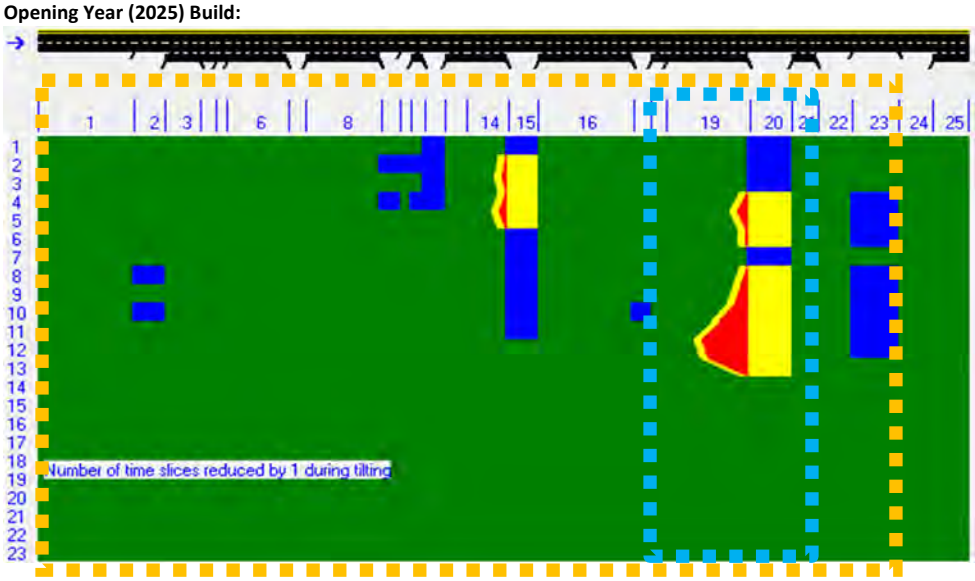
Note: Color key: (a) green = free-flow conditions; (b) blue = near capacity conditions (0.9 <= volume over capacity <= 1.0); (c) yellow = bottleneck (volume over capacity = 1.0); and (d) red = congested flow conditions. Segments 5-7 represent the Project Limits. Segments 1-10 represent the Corridor Limits. The planned auxiliary lanes between Soquel Drive and 41st Avenue (also currently under implementation) and between Bay Avenue/Porter Street interchange and State Park Drive interchange are included for these scenarios. For the peak directions of travel, the first upstream mainline segment was artificially increased in length to capture the end of queue. This resulted in travel time under free-flow conditions becoming longer than the time interval (that is, 15 minutes) of analysis. Similar to the 2017 traffic study, a "tilting control" option was therefore selected in the FREQ model for the operational analysis of the peak directions of travel. This option reduced the time slices by one (that is, 23 instead of 24 time slices).

Figure 6-2 Freeway Condition Diagram in Southbound PM Peak Direction, Opening Year (2025) No Build versus Opening Year (2025) Build

Opening Year (2025) No Build:



Opening Year (2025) Build:



Project Limits southbound Corridor Limits

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Color key: (a) green = free-flow conditions; (b) blue = near capacity conditions (0.9 <= volume over capacity <= 1.0); (c) yellow = bottleneck (volume over capacity = 1.0); and (d) red = congested flow conditions. Segments 18-21 represent the Project Limits. Segments 1-23 represent the Corridor Limits. The planned auxiliary lanes between Soquel Drive and 41st Avenue (also currently under implementation) and between Bay Avenue/Porter Street interchange and State Park Drive interchange are included for these scenarios. For the peak directions of travel, the first upstream mainline segment was artificially increased in length to capture the end of queue. This resulted in travel time under free-flow conditions becoming longer than the time interval (that is, 15 minutes) of analysis. Similar to the 2017 traffic study, a "tilting control" option was therefore selected in the FREQ model for the operational analysis of the peak directions of travel. This option reduced the time slices by one (that is, 23 instead of 24 time slices).

6.1.5 FREQ Based Level of Service (LOS) by Mainline Segment within Corridor Limits

Table 6-4 and **Table 6-5** show the LOS and speed by SR 1 mainline segment and time period under the Opening Year (2025) No Build and Build scenarios in the northbound and southbound directions, respectively. The Project improves operating conditions upstream in both the northbound AM and southbound PM peak periods. It also improves within the Project Limits in the southbound PM peak period. In the northbound AM peak period, large but local speed improvements would occur on SR 1 upstream of the Project Limits from Larkin Valley Road off-ramp to Freedom Boulevard on-ramp (about 1 mile). In the southbound PM peak period, large Corridor level and local level speed improvements would occur both within the Project Limits and upstream of the Project Limits from Soquel Drive on-ramp to Freedom Boulevard off-ramp (about 6 miles).

Table 6-4 Level of Service (LOS) in the SR 1 Northbound Direction by Mainline Segment and Time Period, Opening Year (2025) No Build versus Opening Year (2025) Build

Mainline Segment	Dist.	Opening Year (2025) No Build						Opening Year (2025) Build					
		AM Peak Period			PM Peak Period			AM Peak Period			PM Peak Period		
		Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.
	ft	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph
S/O Larkin Valley Road off	3,400	21.1	C	61	17.8	B	62	21.1	C	61	18.0	B	62
Larkin Valley Road off – on	1,970	33.6	D	36	17.0	B	62	25.4	C ↑	49 ↑	17.1	B	62
Larkin Valley Road on - Freedom Boulevard off	1,830	41.1	E	35	19.1	C	62	23.8	C ↑	61 ↑	19.3	C	62
Freedom Boulevard off – on	2,010	56.3	F	24	17.9	B	62	23.1	C ↑	58 ↑	18.1	C	62
Freedom Boulevard on - Rio Del Mar Boulevard off	2,445	44.2	E	40	22.3	C	61	30.8	D ↑	38	14.8	B ↑	62 ↑
Rio Del Mar Boulevard off – on	1,890	56.6	F	28	18.8	C	62	45.9	F	34 ↑	19.0	C	62
Rio Del Mar Boulevard on - State Park Drive off	5,320	45.5	F	41	22.7	C	61	62.7	F	20	15.0	B ↑	62 ↑
State Park Drive off - northbound State Park Drive on	880	48.3	F	32	18.3	C	62	61.3	F	25	18.4	C	62
northbound State Park Drive on - southbound State Park Drive on	1,125	46.5	F	35	19.6	C	62	54.4	F	30	19.7	C	62
southbound State Park Drive on - Park Avenue off	6,320	62.1	F	20	15.3	B	62	72.2	F	17	15.4	B	62
Corridor Limits: Project Limits + Adj. & U/S Links	**27,190**	**46.7**	**F**	**30**	**18.8**	**C**	**62**	**47.0**	**F**	**26**	**16.7**	**B ↑**	**62**

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm. In the above table, "on" = on-ramp, "off" = off-ramp.

Legend:	Upstream/Downstream Links	Adjacent Links	Project Limits

Table 6-5 Level of Service (LOS) in the SR 1 Southbound Direction by Mainline Segment and Time Period, Opening Year (2025) No Build versus Opening Year (2025) Build

Mainline Segment	Dist.	Opening Year (2025) No Build						Opening Year (2025) Build					
		AM Peak Period			PM Peak Period			AM Peak Period			PM Peak Period		
		Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.
	ft	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		Mph	veh/ mi/ lane		mph
N/O Ocean Street on	500	15.8	B	50	23.9	C	50	15.6	B	50	24.2	C	50
Ocean Street on - SR 17 on	2,070	21.6	C	50	27.9	D	50	21.4	C	50	28.2	D	50
SR 17 on - Fairmount Avenue off	2,300	21.1	C	55	25.2	C	55	21.1	C	55	25.4	C	55
Fairmount Avenue off - on	1,020	17.3	B	62	20.1	C	62	17.3	B	62	20.3	C	62
Fairmount Avenue on - Morrissey Boulevard on	710	18.4	C	62	20.7	C	62	18.4	C	62	20.9	C	62
Morrissey Boulevard on - Soquel Drive off	3,820	20.1	C	62	22.0	C	62	20.1	C	62	22.2	C	62
Soquel Drive off – on	1,220	24.1	C	62	32.4	D	45	24.1	C	62	24.9	C ↑	62 ↑
Soquel Drive on - 41st Avenue off	4,810	18.7	C	62	52.9	F	20	18.7	C	62	18.8	C ↑	62 ↑
41st Avenue off - southbound 41st Avenue on	1,370	23.4	C	61	61.3	F	20	23.3	C	61	22.7	C ↑	61 ↑
southbound 41st Avenue on - northbound 41st Avenue on	660	25.0	C	61	67.8	F	20	25.0	C	61	25.0	C ↑	61 ↑
northbound 41st Avenue on - Bay Avenue/Porter Street off	790	19.4	C	62	55.1	F	23	19.4	C	62	21.9	C ↑	61 ↑
Bay Avenue/Porter Street off – on	1,460	24.9	C	61	59.6	F	26	24.8	C	61	27.4	D ↑	60 ↑
Bay Avenue/Porter Street on - Park Avenue off (merge area)	1,400	18.1	C	62	67.5	F	18	18.1	C	62	20.5	C ↑	62 ↑
Bay Avenue/Porter Street on - Park Avenue off (diverge area)	2,600	18.1	C	62	75.3	F	16	18.1	C	62	21.2	C ↑	60 ↑
Park Avenue off – on	2,010	22.0	C	62	59.5	F	27	22.0	C	62	28.8	D ↑	58 ↑
Park Avenue on - State Park Drive off	6,120	16.3	B	62	91.1	F	14	16.3	B	62	20.7	C ↑	62 ↑
State Park Drive off - southbound State Park Drive on	1,240	20.5	C	62	87.7	F	18	20.5	C	62	27.1	D ↑	61 ↑
southbound State Park Drive on - northbound State Park Drive on	930	22.8	C	62	62.9	F	29	15.1	B ↑	62	20.0	C ↑	62 ↑
northbound State Park Drive on - Rio Del Mar Boulevard off	5,330	24.1	C	61	36.9	E	53	15.8	B ↑	62 ↑	26.2	D ↑	51
Rio Del Mar Boulevard off – on	2,830	21.2	C	61	28.3	D	58	21.3	C	61	30.3	D	55
Rio Del Mar Boulevard on - Freedom Boulevard off	1,660	24.2	C	60	33.7	D	55	16.0	B ↑	61 ↑	20.6	C ↑	61 ↑
Freedom Boulevard off – on	2,270	20.5	C	62	24.7	C	62	20.6	C	62	25.4	C	61
Freedom Boulevard on - Larkin Valley Road off	3,040	21.8	C	61	26.5	D	61	21.9	C	61	27.7	D	59
Corridor Limits: Project Limits + Adj. & U/S Links	**50,160**	**20.6**	**C**	**61**	**47.9**	**F**	**29**	**19.3**	**C**	**61**	**23.9**	**C ↑**	**58 ↑**

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm. In the above table, "on" = on-ramp, "off" = off-ramp.

Legend:	Upstream/Downstream Links	Adjacent Links	Project Limits

6.1.6 Daily VMT, VHT and VHD within Corridor Limits

Table 6-6 shows the daily VMT, VHT and VHD under the Opening Year (2025) No Build and Build scenarios and the associated changes in the northbound and southbound directions and within the Corridor Limits. It is noted that the northbound Corridor Limits are about 4.6 miles long while the southbound Corridor Limits are about 7.6 miles long. Hence, the total measures for traffic operations such as VMT, VHT and VHD in the southbound direction are generally expected to be higher in magnitude compared to the northbound direction. The level of congestion in terms of vehicle throughput and speed in the peak periods also affect the numerical differences between the two directions.

Consistent with the analysis time period results, the northbound direction has a net increase in daily VHT and VHD, while the southbound direction has a net decrease in daily VHT and VHD. Both directions combined, there is a net decrease in daily VHT and daily VHD of 2,860 vehicle-hours and 2,950 vehicle-hours, respectively. The percentage increase in daily VHD in the Opening Year (2025) Build scenario over the Opening Year (2025) No Build scenario in the northbound direction is 32.0 percent while the percentage decrease in daily VHD in the southbound direction is 95.6 percent.

Table 6-6 Estimated Daily VMT, VHT and VHD in the SR 1 by Direction of Flow, Opening Year (2025) No Build versus Opening Year (2025) Build

Performance Measure / Unit	Direction	Opening Year (2025) No Build	Opening Year (2025) Build	Change	% Change
Daily VMT (veh-mi)	SR 1 northbound	258,340	259,290	950	0.4%
	SR 1 southbound	498,070	501,950	3,880	0.8%
Daily VHT (veh-hrs)	SR 1 northbound	5,880	6,450	570	9.7%
	SR 1 southbound	11,830	8,400	-3,430	-29.0%
Daily VHD (veh-hrs)	SR 1 northbound	1,720	2,270	550	32.0%
	SR 1 southbound	3,660	160	-3,500	-95.6%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).

Legend:	Increase	Decrease

6.2 Traffic Safety Performance

Table 6-7 provides a summary of the estimated annual collisions under the Opening Year (2025) No Build and Build conditions for the freeway mainline and ramp segments within the Project Limits. It is expected that there would be 20 percent reduction in total collisions in the northbound direction and 18 percent reduction in total collisions in the southbound direction under the Build scenario compared to the No Build scenario in the Opening Year (2025). More detailed collision estimates (by Project scenario, and by mainline segment and ramp) are included in **Appendix G**.

Table 6-7 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions in 2025

Direction of Movement	Performance Measure	Opening Year (2025) No Build	Opening Year (2025) Build	No Build vs Build % Change
SR 1 northbound	Total Collisions / Year	112	89	20%
	Fatal Collisions / Year	0.313	0.261	17%
	Injury Collisions / Year	40	32	21%
	PDO Collisions / Year	72	57	20%
SR 1 southbound	Total Collisions / Year	51	42	18%
	Fatal Collisions / Year	0.210	0.167	20%
	Injury Collisions / Year	17	14	17%
	PDO Collisions / Year	34	28	18%

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions) and TSAR Summary for SR 1 Ramps (with non-state route area 4), Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CMF Clearing House, SCCRTC and CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments of the Project Limits where auxiliary lanes are added and adjacent upstream and downstream segments and ramps within the Project Limits. No Build represents existing highway (SR 1 mainline and ramps) geometry.

Section 7

Horizon Year (2045) No Build and Build Conditions Assessment

This section compares the traffic operations and safety performance results under the Horizon Year (2045) No Build and Build conditions.

7.1 Traffic Operational Performance

This sub-section includes a discussion of the Horizon Year (2045) No Build and Build changes in the infrastructure and capacities and growth in the estimated volumes over the Existing (2019) conditions. It also includes comparisons for the Horizon Year (2045) No Build and Build conditions in terms of traffic operational performance measures within the Corridor Limits during the AM and PM peak periods and peak hours, freeway conditions (volume over capacity and bottlenecks) in the peak directions of travel by SR 1 mainline segment and 15-minute time interval, and level of service (LOS) and average speed by SR 1 mainline segment.

7.1.1 Infrastructure and Capacities

Similar to the Opening Year (2025), the infrastructure and capacities in the Horizon Year (2045) No Build and Build scenarios were kept the same as the Existing (2019) and Existing (2019) Plus Build scenarios, respectively, except in the case of SR 1 mainline segments between Soquel Drive and 41st Avenue and between Bay Avenue/Porter Street to State Park Drive, where planned auxiliary lanes improvements are assumed to be operational at a capacity of 5,600 vehicles/hour and 6,100 vehicles/hour in the northbound and southbound directions, respectively. These capacity assumptions are consistent with the SCCRTC's SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR.

7.1.2 Estimated Traffic Volumes

Table 7-1 and **Table 7-2** show a summary level comparison of the estimated AM peak period, PM peak period and daily total volumes under the Horizon Year (2045) No Build and Horizon Year (2045) Build conditions over SR 1 mainline segments and ramps within the Project Limits in the northbound and southbound directions, respectively. Average weekday daily mainline traffic on SR 1 under the No Build conditions and within the Project Limits is expected to grow between the Existing Year (2019) and the Horizon Year (2045) by 17.4 percent in the northbound direction and 20.9 percent in the southbound direction, respectively. The growth rates were developed using the 2015 and 2040 assignment outputs from the AMBAG model and adjusted to account for the induced demand due to the background auxiliary lane projects (P1 and P2). Average weekday daily on-ramp traffic on SR 1 under No Build conditions is expected to grow between the Existing Year (2019) and the Horizon Year (2045) by 10.7 percent in the northbound direction and 11.0 percent in the southbound direction. Average weekday daily off-ramp traffic on SR 1 under No Build conditions is expected to grow between the Existing Year (2019) and the Horizon Year (2045) by 15.0 percent in the northbound direction and 11.1 percent in the southbound direction.

Table 7-1 Estimated Weekday Volumes (in vehicles) by SR 1 Northbound Mainline Segments and Ramps within the Project Limits, Horizon Year (2045) No Build versus Horizon Year (2045) Build

Location	Horizon Year (2045) No Build Volumes (vehicles)					Horizon Year (2045) Build Volumes (vehicles)					% Difference, Build over No Build				
	AM		PM			AM		PM			AM		PM		
	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total
Mainline Average	21,940	3,870	17,110	3,350	56,100	21,820	3,885	17,100	3,345	56,200	-0.5%	0.4%	-0.1%	-0.1%	0.2%
On-Ramps Total	12,650	2,725	9,570	1,595	29,000	12,650	2,725	9,610	1,605	29,200	0.0%	0.0%	0.4%	0.6%	0.7%
Off-Ramps Total	7,130	1,450	6,860	1,245	17,600	7,130	1,450	6,890	1,250	17,700	0.0%	0.0%	0.4%	0.4%	0.6%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Mainline average, on-ramps total and off-ramps total were computed for SR 1 northbound segment numbers (#s) 3 through 10 in **Table 5-1**. The daily volumes are rounded to the nearest 100 vehicles, the peak period volumes are rounded to the nearest 10 vehicles and the peak hour volumes are rounded to the nearest 5 vehicles. The percentage changes reported at the daily level are thus less precise compared to that at the peak period and peak hour levels.

Table 7-2 Estimated Weekday Volumes (in vehicles) by SR 1 Southbound Mainline Segments and Ramps within the Project Limits, Horizon Year (2045) No Build versus Horizon Year (2045) Build

Location	Horizon Year (2045) No Build Volumes (vehicles)					Horizon Year (2045) Build Volumes (vehicles)					% Difference, Build over No Build				
	AM		PM			AM		PM			AM		PM		
	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total	Peak Period	Peak Hour	Peak Period	Peak Hour	Daily Total
Mainline Average	19,160	3,745	23,340	4,025	56,800	19,180	3,750	23,400	4,250	56,800	0.1%	0.1%	0.3%	5.6%	0.0%
On-Ramps Total	5,490	1,350	7,890	1,465	17,200	5,530	1,360	7,940	1,475	17,200	0.7%	0.7%	0.6%	0.7%	0.0%
Off-Ramps Total	8,110	1,255	11,750	1,980	27,000	8,150	1,260	11,810	1,990	27,200	0.5%	0.4%	0.5%	0.5%	0.7%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Mainline average, on-ramps total and off-ramps total were computed for SR 1 southbound segment numbers (#s) 16 through 23 in **Table 5-2**. The daily volumes are rounded to the nearest 100 vehicles, the peak period volumes are rounded to the nearest 10 vehicles and the peak hour volumes are rounded to the nearest 5 vehicles. The percentage changes reported at the daily level are thus less precise compared to that at the peak period and peak hour levels.

Under the Horizon Year (2045) No Build and Build conditions, there is a limited amount of mainline demand volume capping and peak spreading was carried out in the peak directions of travel. The peak spreading resulted in a maximum reduction in the hourly volume of just under 600 vehicles in the southbound PM under the Horizon Year (2045) No Build scenario. However, all of the peak spreading occurred within the peak period; there was no peak spreading between the peak and off-peak periods. The growth percentages in the AMBAG model that were applied at a peak period level are therefore still fully applied to the peak directions without changes – the hourly distribution would however differ from the Existing (2019) volumes. The growth rates varied by direction and time period as follows – northbound AM: 16.1 percent, northbound PM: 20.6 percent, southbound AM: 23.0 percent, and southbound PM: 18.5 percent. Hence, the traffic in the peak directions would grow slower compared to the non-peak direction traffic volumes.

The Project added auxiliary lanes are expected to have an induced additional mainline average demand of 400 vehicles/day[31] on average in the Horizon Year (2045) Build conditions in each direction, which is roughly 0.70 percent of the mainline average traffic volume under the Horizon Year (2045) No Build conditions. Similar to the Existing (2019) Plus Build conditions, none of that induced demand was allocated to the northbound AM peak period as the presence of a downstream bottleneck results in delay and travel time increases in this direction and analysis time period. As a consequence of this, the mainline traffic volume does not increase in the northbound AM peak period under the Build conditions over the No Build conditions. An increase is however seen in the northbound AM peak hour and is attributed to reduced peak spreading under the Build conditions compared to the No Build conditions due to increased freeway mainline capacity. The Project would avoid about 240 vehicles/day[32] on average in the Horizon Year (2045) Build conditions in each direction of travel due to bus service changes and the related increase in estimated transit ridership. This is about 0.42 percent of the mainline daily average traffic volume under the Horizon Year (2045) No Build conditions. The large increase in ridership between 2025 and 2045 is associated with the population/employment growth and doubling of the service frequency between 2025 and 2045. The vehicles avoided offset the induced demand sufficiently in the northbound PM to result in a small decline in the traffic volume under the Build conditions over the No Build conditions. In the case of southbound direction, there is an increase in mainline traffic volume net of induced demand, mode shift and peak spreading. Overall, similar to the Existing (2019) Plus Build conditions, the Project has minimal impacts on the mainline average and ramp volumes in the Horizon Year (2045).

7.1.3 FREQ Based Traffic Operational Performance within Corridor Limits

FREQ models were used to analyze the freeway traffic operational performance within the Corridor Limits under the Horizon Year (2045) No Build and Build scenarios. **Table 7-3** shows a comparison of their performance.

Based on the FREQ model outputs, the Horizon Year (2045) No Build scenario fails to meet the set freeway operational performance (LOS, average speed) criteria during the northbound AM and southbound PM peak periods. The presence of the background auxiliary lane projects (P1 and P2) is helping lower the congestion in the Horizon Year (2045), however, they are not sufficient to

[31] Using average of northbound and southbound daily change in induced demand between No Project and Project scenarios as per **Table 3-3** of this report

[32] Using half of the bi-directional daily total vehicles avoided due to Project as per **Table 3-4** of this report

overcome the mobility challenges posed by the baseline growth in traffic, induced demand from the background projects and continued presence of bottlenecks within the Project Limits.

Table 7-3 Summary of Traffic Operational Performance within Corridor Limits by Direction and Time Period, Horizon Year (2045) No Build versus Horizon Year (2045) Build

Dir. of Movmt. & Time Period	Perf. Measure	Analysis Duration	Horizon Year (2045) No Build	Horizon Year (2045) Build
SR 1 northbound AM peak period	Volume (vph)	Peak Hour	3,340	3,288
		Peak Period	3,052	3,071
	VMT (veh-mi)	Peak Hour	17,201	16,931
		Peak Period	94,311	94,880
	VHT (veh-hrs)	Peak Hour	744	863
		Peak Period	6,017	7,121
	VHD (veh-hrs)	Peak Hour	466	590
		Peak Period	4,496	5,591
	Density (pcpmpl)	Peak Hour	68.6	68.5
		Peak Period	88.5	93.2
	LOS	Peak Hour	F	F
		Peak Period	F	F
	Avg. Speed (mph)	Peak Hour	23	20
		Peak Period	16	13
	Delay (min/veh)	Peak Hour	8.4	10.8
		Peak Period	14.7	18.2
SR 1 northbound PM peak period	Volume (vph)	Peak Hour	3,400	3,397
		Peak Period	2,905	2,902
	VMT (veh-mi)	Peak Hour	17,508	17,492
		Peak Period	89,753	89,654
	VHT (veh-hrs)	Peak Hour	290	283
		Peak Period	1,487	1,449
	VHD (veh-hrs)	Peak Hour	7	1
		Peak Period	39	3
	Density (pcpmpl)	Peak Hour	25.8	22.4
		Peak Period	22.1	19.0
	LOS	Peak Hour	C	C
		Peak Period	C	C
	Avg. Speed (mph)	Peak Hour	60	62 ↑
		Peak Period	60	62 ↑
	Delay (min/veh)	Peak Hour	0.1	0.0
		Peak Period	0.1	0.0

Dir. of Movmt. & Time Period	Perf. Measure	Analysis Duration	Horizon Year (2045) No Build	Horizon Year (2045) Build
SR 1 southbound AM peak period	Volume (vph)	Peak Hour	3,614	3,648
		Peak Period	3,458	3,464
	VMT (veh-mi)	Peak Hour	34,330	34,660
		Peak Period	197,101	197,458
	VHT (veh-hrs)	Peak Hour	625	592
		Peak Period	3,378	3,304
	VHD (veh-hrs)	Peak Hour	63	25
		Peak Period	147	67
	Density (pcpmpl)	Peak Hour	27.9	24.5
		Peak Period	24.7	22.6
	LOS	Peak Hour	D	C ↑
		Peak Period	C	C
	Avg. Speed (mph)	Peak Hour	55	59 ↑
		Peak Period	58	60 ↑
	Delay (min/veh)	Peak Hour	1.0	0.4
		Peak Period	0.4	0.2
SR 1 southbound PM peak period	Volume (vph)	Peak Hour	3,269	3,927
		Peak Period	3,635	3,968
	VMT (veh-mi)	Peak Hour	31,056	37,307
		Peak Period	207,207	226,180
	VHT (veh-hrs)	Peak Hour	2,274	1,515
		Peak Period	10,789	7,796
	VHD (veh-hrs)	Peak Hour	1,765	902
		Peak Period	7,388	4,084
	Density (pcpmpl)	Peak Hour	91.0	59.0
		Peak Period	72.5	50.8
	LOS	Peak Hour	F	F
		Peak Period	F	F
	Avg. Speed (mph)	Peak Hour	14	25 ↑
		Peak Period	19	29 ↑
	Delay (min/veh)	Peak Hour	32.4	13.8
		Peak Period	20.3	10.3

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm; AM peak hour: 7 am to 8 am; PM peak hour: 4 pm to 5 pm. Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).

Under both the Horizon Year (2045) No Build and Build conditions, and in the northbound AM peak period, density, speed and delay in the peak period are worse than the peak hour. This

counter-intuitive result is attributed to the presence and characteristics of a bottleneck north of Soquel Avenue interchange. This bottleneck is active during the time intervals that are later than the peak hour within the Project Limits, and has a greater traffic operational impact in terms of congestion duration and queue lengths than the bottleneck within the Project Limits (see condition diagrams in **Section 7.1.4**). Hence, the differences in the peak period and peak hour performance.

The freeway LOS in the peak directions (northbound AM and southbound PM) under the Horizon Year (2045) No Build conditions is F in both the peak hour and the peak period. The non-peak directions (northbound PM and southbound AM) have satisfactory levels of service of C or better in both the peak hour and the peak period. In the peak directions, the average speeds reach 14-23 mph during the peak hours, and 16-19 mph during the peak periods.

Compared to the Horizon Year (2045) No Build scenario, the directional and time period VMTs in the Horizon Year (2045) Build scenario would have limited changes (-0.1-0.6 percent increase) in most directions and time periods, however, in the southbound PM a 9.2 percent increase in VMT is expected. The reason for the large increase in the southbound PM is related to an increased vehicle throughput. This occurs because a majority of the bottlenecks in the southbound direction are eliminated and the vehicle flows served increase as a result.

Compared to the Horizon Year (2045) No Build scenario, the directional and time period VHTs in the Horizon Year (2045) Build scenario would be higher by 18.4 percent in the northbound AM peak period, while it would reduce by 27.7 percent in the southbound PM. There is a small reduction in the VHTs (2.2-2.6 percent) in the non-peak directions. A similar pattern is seen with the average speeds. Density in the Horizon Year (2045) Build scenario would improve over the Horizon Year (2045) No Build scenario under all analysis directions and time periods, except in the northbound AM peak period. The reasons for these changes remain the same as that for the Existing Year (2019).

The density in one of the peak directions, namely the southbound PM, improves from 91 vehicles per mile per lane (vpmpl) and 73 vpmpl in peak period and peak hour to 59 vpmpl and 51 vpmpl, respectively. Thus, the Build scenario results are close to the LOS E to LOS F transition density value of 45 vpmpl. In the peak directions, the LOS would remain at LOS F in both the peak hour and peak period. The average speed in the southbound PM would improve to 25 mph in the peak hour and 29 mph in the peak period. The average speed in the northbound AM would fall to 20 mph in the peak hour and 13 mph in the peak period. Overall, neither of the peak directions (northbound AM and southbound PM) meet the set freeway operational performance criteria (LOS, average speed) under the horizontal year (2045) Build scenario.

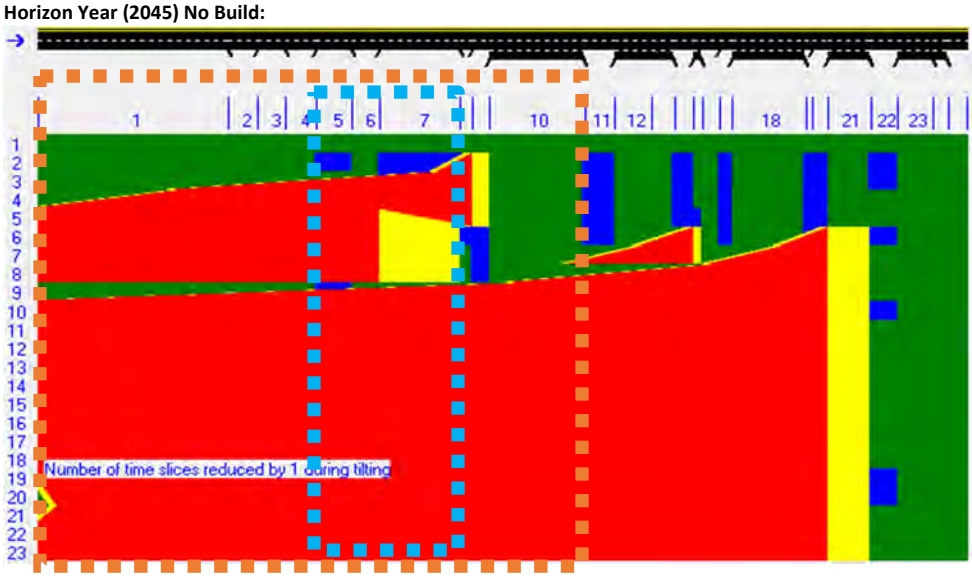
The southbound PM traffic would have a substantial delay reduction due to the Project. The unit delay reduction in the peak period and peak hour are expected to be 10 minutes per vehicle and 19 minutes per vehicle, respectively. In the southbound PM, the total delay reduction is expected to be 3,304 vehicle-hours (or 45 percent reduction) in the peak period and 863 vehicle-hours (or 49 percent reduction) in the peak hour in the Horizon Year (2045).

7.1.4 FREQ based Condition Diagrams in Peak Directions

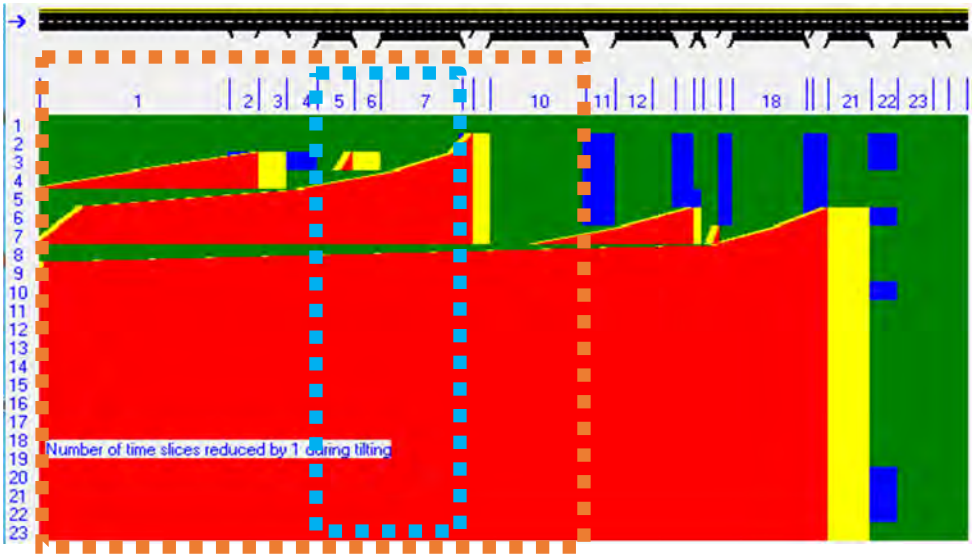
As mentioned in **Section 5.1.4**, FREQ model provides a graphical display of the freeway travel conditions. **Figure 7-1** and **Figure 7-2** show comparisons of the congestion on SR 1 under the Horizon Year (2045) No Build and Build scenarios, only in the peak directions of travel (the northbound in AM and the southbound in PM). The congestion in the non-peak directions of travel (northbound PM and southbound AM) is nominal, hence not shown. Similar to the Opening Year (2025), the elimination of bottlenecks within the Project Limits improves the freeway operation conditions in the southbound PM peak direction substantially. There are almost no improvements in the northbound AM peak direction.

Figure 7-1 Freeway Condition Diagram in Northbound AM Peak Direction, Horizon Year (2045) No Build versus Horizon Year (2045) Build

Horizon Year (2045) No Build:



Horizon Year (2045) Build:



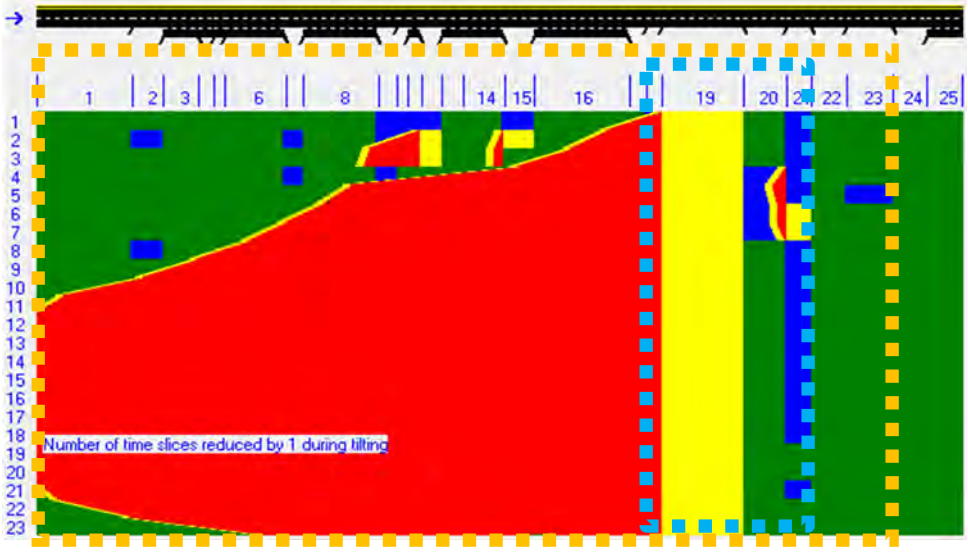
Project Limits northbound Corridor Limits

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

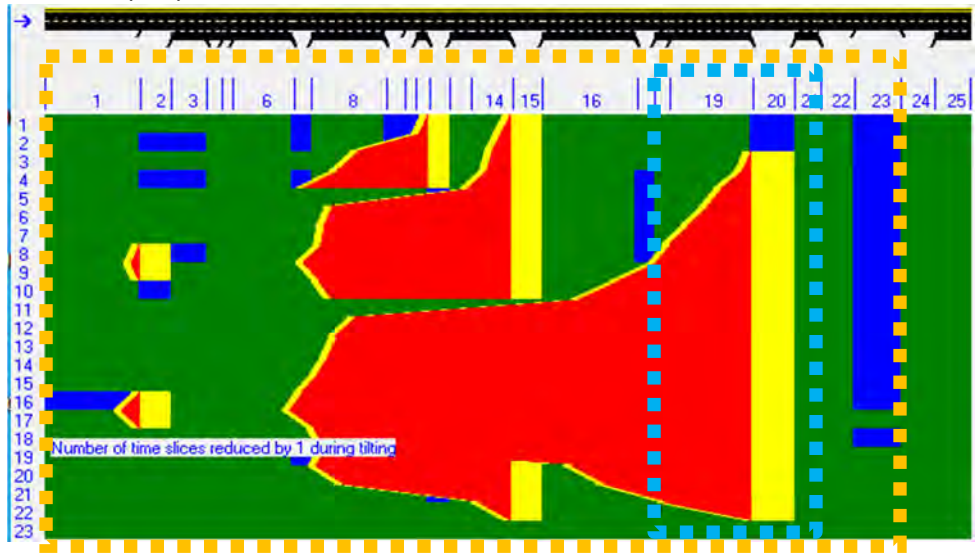
Note: Color key: (a) green = free-flow conditions; (b) blue = near capacity conditions (0.9 <= volume over capacity <= 1.0); (c) yellow = bottleneck (volume over capacity = 1.0); and (d) red = congested flow conditions. Segments 5-7 represent the Project Limits. Segments 1-10 represent the Corridor Limits. The planned auxiliary lanes between Soquel Drive and 41st Avenue (also currently under implementation) and between Bay Avenue/Porter Street interchange and State Park Drive interchange are included for these scenarios. For the peak directions of travel, the first upstream mainline segment was artificially increased in length to capture the end of queue. This resulted in travel time under free-flow conditions becoming longer than the time interval (that is, 15 minutes) of analysis. Similar to the 2017 traffic study, a "tilting control" option was therefore selected in the FREQ model for the operational analysis of the peak directions of travel. This option reduced the time slices by one (that is, 23 instead of 24 time slices).

Figure 7-2 Freeway Condition Diagram in Southbound PM Peak Direction, Horizon Year (2045) No Build versus Horizon Year (2045) Build

Horizon Year (2045) No Build:



Horizon Year (2045) Build:



Project Limits southbound Corridor Limits

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Color key: (a) green = free-flow conditions; (b) blue = near capacity conditions (0.9 <= volume over capacity <= 1.0); (c) yellow = bottleneck (volume over capacity = 1.0); and (d) red = congested flow conditions. Segments 18-21 represent the Project Limits. Segments 1-23 represent the Corridor Limits. The planned auxiliary lanes between Soquel Drive and 41st Avenue (also currently under implementation) and between Bay Avenue/Porter Street interchange and State Park Drive interchange are included for these scenarios. For the peak directions of travel, the first upstream mainline segment was artificially increased in length to capture the end of queue. This resulted in travel time under free-flow conditions becoming longer than the time interval (that is, 15 minutes) of analysis. Similar to the 2017 traffic study, a "tilting control" option was therefore selected in the FREQ model for the operational analysis of the peak directions of travel. This option reduced the time slices by one (that is, 23 instead of 24 time slices).

7.1.5 FREQ Based Level of Service (LOS) by Mainline Segment within Corridor Limits

Table 7-4 and **Table 7-5** show and speed the LOS by SR 1 mainline segment and time period under the Horizon Year (2045) No Build and Build scenarios in the northbound and southbound directions, respectively. The Project improves operating conditions upstream in the southbound PM peak period but densities higher than 100 vehicles per mile per lane and speeds around 15 mph would be reached in the northbound AM peak direction. In the northbound AM peak period, small but local speed improvements would occur on SR 1 upstream of the Project Limits from Larkin Valley Road off-ramp to Freedom Boulevard on-ramp (about 1 mile). In the southbound PM peak period, large Corridor level and local level speed improvements would occur both within the Project Limits and upstream of the Project Limits from SR 17 on-ramp to Freedom Boulevard off-ramp (about 8 miles).

Table 7-4 Level of Service (LOS) in the SR 1 Northbound Direction by Mainline Segment and Time Period, Horizon Year (2045) No Build versus Horizon Year (2045) Build

Mainline Segment	Dist.	Horizon Year (2045) No Build						Horizon Year (2045) Build					
		AM Peak Period			PM Peak Period			AM Peak Period			PM Peak Period		
		Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.
	ft	veh/mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph
S/O Larkin Valley Road off	3,400	121.8	F	9	21.0	C	62	116.7	F	10 ↑	21.0	C	62
Larkin Valley Road off – on	1,970	114.9	F	9	20.0	C	62	110.4	F	10 ↑	19.9	C	62
Larkin Valley Road on - Freedom Boulevard off	1,830	97.3	F	13	22.4	C	61	92.1	F	14 ↑	22.3	C	61
Freedom Boulevard off – on	2,010	110.3	F	10	22.1	C	59	102.7	F	11 ↑	20.9	C	62 ↑
Freedom Boulevard on - Rio Del Mar Boulevard off	2,445	76.0	F	20	26.9	D	58	92.8	F	11	16.7	B ↑	62 ↑
Rio Del Mar Boulevard off – on	1,890	95.5	F	14	21.7	C	62	93.5	F	14	21.6	C	62
Rio Del Mar Boulevard on - State Park Drive off	5,320	67.5	F	25	27.2	D	59	91.6	F	13	17.0	B ↑	62 ↑
State Park Drive off - northbound State Park Drive on	880	76.5	F	18	20.9	C	62	81.8	F	17	20.9	C	62
northbound State Park Drive on - southbound State Park Drive on	1,125	69.9	F	21	22.4	C	62	71.6	F	21	22.3	C	62
southbound State Park Drive on - Park Avenue off	6,320	78.1	F	14	17.2	B	62	79.5	F	14	17.2	B	62
Corridor Limits: Project Limits + Adj. & U/S Links	**27,190**	**88.5**	**F**	**16**	**22.1**	**C**	**60**	**93.2**	**F**	**13**	**19.0**	**C**	**62 ↑**

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm. In the above table, "on" = on-ramp, "off" = off-ramp.

Legend:	Upstream/Downstream Links	Adjacent Links	Project Limits

Table 7-5 Level of Service (LOS) in the SR 1 Southbound Direction by Mainline Segment and Time Period, Horizon Year (2045) No Build versus Horizon Year (2045) Build

Mainline Segment	Dist.	Horizon Year (2045) No Build						Horizon Year (2045) Build					
		AM Peak Period			PM Peak Period			AM Peak Period			PM Peak Period		
		Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.	Den.	LOS	Spd.
	ft	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph	veh/ mi/ lane		mph
N/O Ocean Street on	500	17.8	B	50	67.0	F	18	18.0	C	50	27.8	D ↑	49 ↑
Ocean Street on - SR 17 on	2,070	25.1	C	50	65.9	F	21	25.3	C	50	31.4	D ↑	50 ↑
SR 17 on - Fairmount Avenue off	2,300	23.5	C	55	69.6	F	19	23.6	C	55	27.4	D ↑	55 ↑
Fairmount Avenue off - on	1,020	19.4	C	62	83.4	F	14	19.6	C	62	22.0	C ↑	62 ↑
Fairmount Avenue on - Morrissey Boulevard on	710	20.8	C	62	82.4	F	15	20.9	C	62	22.9	C ↑	62 ↑
Morrissey Boulevard on - Soquel Drive off	3,820	22.8	C	62	83.8	F	16	22.8	C	62	24.3	C ↑	61 ↑
Soquel Drive off – on	1,220	28.1	D	60	92.3	F	15	28.1	D	60	31.4	D ↑	54 ↑
Soquel Drive on - 41st Avenue off	4,810	21.4	C	61	106.0	F	10	21.4	C	61	77.6	F	16 ↑
41st Avenue off - southbound 41st Avenue on	1,370	29.2	D	57	99.6	F	12	29.2	D	57	76.6	F	19 ↑
southbound 41st Avenue on - northbound 41st Avenue on	660	31.3	D	57	104.0	F	13	31.3	D	57	80.8	F	20 ↑
northbound 41st Avenue on - Bay Avenue/Porter Street off	790	25.7	C	54	80.5	F	16	25.6	C	54	63.1	F	23 ↑
Bay Avenue/Porter Street off – on	1,460	30.3	D	58	80.4	F	19	30.3	D	58	58.8	F	30 ↑
Bay Avenue/Porter Street on - Park Avenue off (merge area)	1,400	20.7	C	62	97.1	F	13	20.7	C	62	73.9	F	19 ↑
Bay Avenue/Porter Street on - Park Avenue off (diverge area)	2,600	20.7	C	62	99.5	F	13	20.7	C	62	83.4	F	17 ↑
Park Avenue off – on	2,010	26.3	D	60	70.5	F	23	26.2	D	60	44.0	E ↑	42 ↑
Park Avenue on - State Park Drive off	6,120	18.9	C	62	102.9	F	13	18.9	C	62	54.6	F	27 ↑
State Park Drive off - southbound State Park Drive on	1,240	28.0	D	54	95.3	F	17	24.2	C ↑	62 ↑	55.4	F	33 ↑
southbound State Park Drive on - northbound State Park Drive on	930	32.8	D	51	64.4	F	29	17.5	B ↑	62 ↑	66.6	F	21
northbound State Park Drive on - Rio Del Mar Boulevard off	5,330	30.1	D	56	38.3	E	52	18.2	C ↑	62 ↑	73.7	F	20
Rio Del Mar Boulevard off – on	2,830	28.7	D	53	29.2	D	58	25.4	C ↑	59 ↑	36.0	E	51
Rio Del Mar Boulevard on - Freedom Boulevard off	1,660	29.1	D	58	34.6	D	55	18.4	C ↑	61 ↑	22.8	C ↑	61 ↑
Freedom Boulevard off – on	2,270	23.9	C	62	25.8	C	62	25.4	C	59	28.7	D	61
Freedom Boulevard on - Larkin Valley Road off	3,040	25.6	C	60	28.1	D	60	26.0	D	60	32.3	D	57
Corridor Limits: Project Limits + Adj. & U/S Links	**50,160**	**24.7**	**C**	**58**	**72.5**	**F**	**19**	**22.6**	**C**	**60 ↑**	**50.8**	**F**	**29 ↑**

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm. In the above table, "on" = on-ramp, "off" = off-ramp.

Legend:	Upstream/Downstream Links	Adjacent Links	Project Limits

7.1.6 Daily VMT, VHT and VHD within Corridor Limits

In terms of VMT, the SB 743 (Transportation Impact) guidelines have listed auxiliary lanes as a project type that is not likely to lead to measurable or substantial increase in vehicle travel. In addition, transit projects such as the BOS element of the Project are exempt from SB 743 analysis. A more regional VMT assessment was conducted as part of the June 19, 2020 application for the Watsonville-Santa Cruz Multimodal Corridor Program Cycle 2 Project under the Senate Bill 1 (SB1) Solutions to Congested Corridors Program (SCCP).

Results of the regional VMT analysis for the proposed Cycle 2 Project (the combination of all three segments where auxiliary lanes are planned) show a decrease in daily countywide VMT/capita from 20.02 miles/person to 19.98 miles/person and the countywide total VMT relative to the No Build is reduced by approximately 13,300 miles/day. This represents the combined impact of the auxiliary lanes, the BOS improvements, and the active transportation improvements. The analysis presented below reflects a corridor level analysis of VMT based on travel on just the freeway segments within the Corridor Limits.

Table 7-6 shows the daily VMT, VHT and VHD under the Horizon Year (2045) No Build and Build scenarios and the associated changes in the northbound and southbound directions and within the Corridor Limits. It is noted that the northbound Corridor Limits are about 4.6 miles long while the southbound Corridor Limits are about 7.6 miles long. Hence, the total measures for traffic operations such as VMT, VHT and VHD in the southbound direction are generally expected to be higher in magnitude compared to the northbound direction. The level of congestion in terms of vehicle throughput and speed in the peak periods also affect the numerical differences between the two directions.

Table 7-6 Estimated Daily VMT, VHT and VHD in the SR 1 by Direction of Flow, Horizon Year (2045) No Build versus Horizon Year (2045) Build

Performance Measure / Unit	Direction	Horizon Year (2045) No Build	Horizon Year (2045) Build	Change	% Change
Daily VMT (veh-mi)	SR 1 northbound	265,890	266,570	680	0.3%
	SR 1 southbound	538,770	564,530	25,760	4.8%
Daily VHT (veh-hrs)	SR 1 northbound	8,820	9,890	1,070	12.1%
	SR 1 southbound	16,370	13,410	-2,960	-18.1%
Daily VHD (veh-hrs)	SR 1 northbound	4,530	5,590	1,060	23.4%
	SR 1 southbound	7,540	4,150	-3,390	-45.0%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments within the Corridor Limits (SR 1 northbound direction from Larkin Valley Road/San Andreas Road to Park Avenue, and in SR 1 southbound direction from SR 17 to Larkin Valley Road/San Andreas Road).

Legend:	Increase	Decrease

Consistent with the analysis time period results, the northbound direction has a net increase in daily VHT and VHD, while the southbound direction has a net decrease in daily VHT and VHD.

Both directions combined, there is a net decrease in daily VHT and daily VHD of 1,890 vehicle-hours and 2,330 vehicle-hours, respectively. The percentage increase in daily VHD in the Horizon Year (2045) Build scenario over the Horizon Year (2045) No Build scenario in the northbound direction is 23.4 percent while the percentage decrease in daily VHD in the southbound direction is 45.0 percent.

7.2 Traffic Safety Performance

Table 7-7 provides a summary of the estimated annual collisions under the Horizon Year (2045) No Build and Build conditions for the freeway mainline and ramp segments within the Project Limits. It is expected that there would be 20 percent reduction in total collisions in the northbound direction and 18 percent reduction in total collisions in the southbound direction under the Build scenario compared to the No Build scenario in the Horizon Year (2045). More detailed collision estimates (by Project scenario, and by mainline segment and ramp) are included in **Appendix G**.

Table 7-7 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions in 2045

Direction of Movement	Performance Measure	Horizon Year (2045) No Build	Horizon Year (2045) Build	No Build vs Build % Change
SR 1 northbound	Total Collisions / Year	125	100	20%
	Fatal Collisions / Year	0.349	0.290	17%
	Injury Collisions / Year	45	35	21%
	PDO Collisions / Year	80	64	20%
SR 1 southbound	Total Collisions / Year	58	48	18%
	Fatal Collisions / Year	0.234	0.185	21%
	Injury Collisions / Year	20	16	17%
	PDO Collisions / Year	38	31	18%

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions) and TSAR Summary for SR 1 Ramps (with non-state route area 4), Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CMF Clearing House, SCCRTC and CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments of the Project Limits where auxiliary lanes are added and adjacent upstream and downstream segments and ramps within the Project Limits. No Build represents existing highway (SR 1 mainline and ramps) geometry.

Section 8
Conclusions

The key conclusions based on the traffic analysis are as follows:

- The Project is expected to have the following benefits:
  - **Improved end-to-end BOS travel times:** In the Opening Year (2025) Build Scenario, peak period peak direction travel times between the Santa Cruz Metro Transit Center in the north and the Watsonville Transit Center in the south, are expected to improve by 15 minutes in the northbound direction and 18 minutes in the southbound direction.
  - **Reduced traffic due to a shift from auto to transit**: Within the Project Limits, the Project is expected to result in a reduction of up to 240 vehicles/day (by 2045) on average on SR 1 in each direction as a result of auto drivers being attracted to the improved transit service provided by express BOS operations. This reduction is 0.42 percent of the mainline average traffic volume under 2045 No Build conditions. This benefit partially offsets the traffic volume increase related to the induced demand on the freeway generated due to the addition of auxiliary lanes.
  - **Reduced neighborhood cut through traffic without increase in countywide VMT:** The improved travel conditions on the SR 1 freeway result in a shift in VMT from local roads to SR 1. The regional VMT analysis for the proposed Cycle 2 Project (the combination of the Project and two other background planned auxiliary lanes) show the countywide total VMT relative to the No Build is reduced by approximately 13,300 miles/day. The VMT shift, which also represents the induced demand on the freeway, has a positive benefit by reducing neighborhood cut through traffic.
  - **Improved freeway merge/diverge operations and reduced collisions**: Within the Project Limits, on four out of eight mainline segments, fatal plus injury collision rates are higher than the statewide average. On four out of fourteen ramps, fatal plus injury collision rates as well as total collision rates are higher than the statewide average. On average 68 percent of the collisions on all SR 1 northbound mainline segments are rear-end type; while on the SR 1 southbound mainline segments this is 39 percent on average. Sideswipe incidents form around 10 percent of the collisions on the mainline in both directions of SR 1. Collisions at all three interchanges are mainly rear-end type. Some of these types of collisions may be attributed to the lack of auxiliary lanes. Due to addition of auxiliary lanes and related education and enforcement counter measures, the merge/diverge operations for entering and exiting SR 1 traffic are expected to improve and become safer. Total collisions on SR 1 are expected to be reduced by approximately 20 percent in the northbound direction and by approximately 17 percent in the southbound direction in the Build scenarios compared to the No Build scenarios in the years. This is a reduction of 25 northbound and 10 southbound collisions per year by 2045 as shown in **Table 8-1**.

Table 8-1 Summary of Project Safety Performance on SR 1 Mainline and Ramps by Traffic Analysis Scenario and by Direction, Annual Number of Collisions

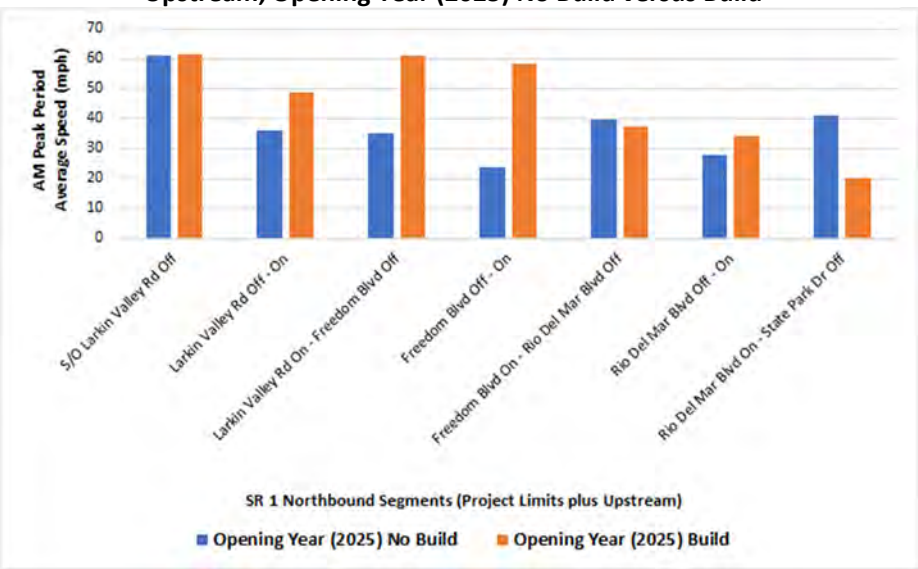
Direction of Movement	Performance Measure	Existing (2019)	Existing (2019) plus Build	Opening Year (2025) No Build	Opening Year (2025) Build	Horizon Year (2045) No Build	Horizon Year (2045) Build
SR 1 northbound	Total Collisions / Year	107	86	112	89	125	100
SR 1 southbound	Total Collisions / Year	49	40	51	42	58	48

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions) and TSAR Summary for SR 1 Ramps (with non-state route area 4), Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CDM Smith's Traffic Analysis.

Note: Performance measures in the table above represent results on the freeway mainline segments of the Project Limits where auxiliary lanes are added and adjacent upstream and downstream segments and ramps within the Project Limits.

- **Improved average speed on particular sections of the SR 1 northbound and southbound:** As shown in **Figure 8-1** and **Figure 8-2**, in the Opening Year (2025), in the northbound AM peak period, due to the Project, large local speed improvements would occur on SR 1 upstream of the Project Limits from the Larkin Valley Road off-ramp to the Freedom Boulevard on-ramp (about 1 mile). In the southbound PM peak period, due to the Project, large Corridor level and local level speed improvements would occur both within the Project Limits and upstream of the Project Limits from Soquel Drive on-ramp to Freedom Boulevard off-ramp (about 6 miles).

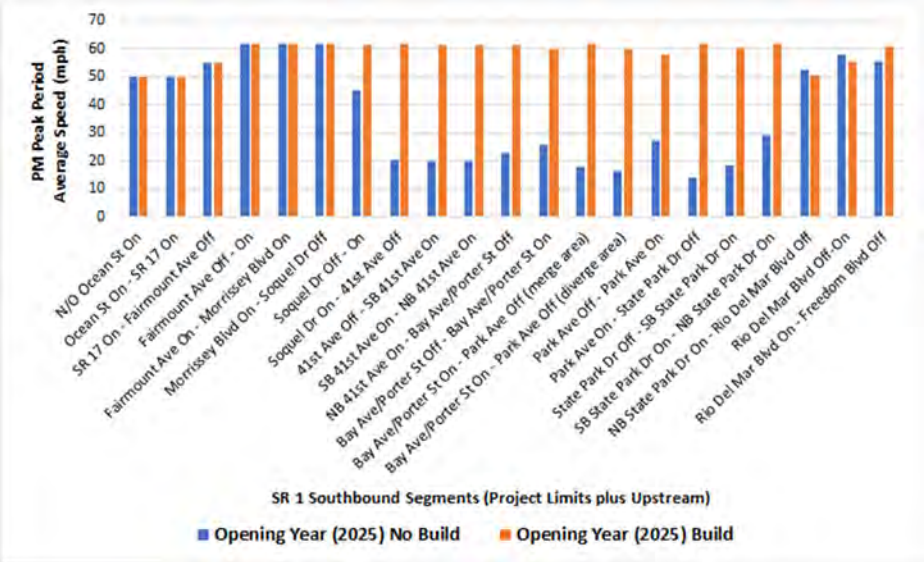
Figure 8-1 Average Speeds in Northbound AM Peak Period by Mainline Segment, Project Limits plus Upstream, Opening Year (2025) No Build versus Build



Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm.

Figure 8-2 Average Speeds in Southbound PM Peak Period by Mainline Segment, Project Limits plus Upstream, Opening Year (2025) No Build versus Build

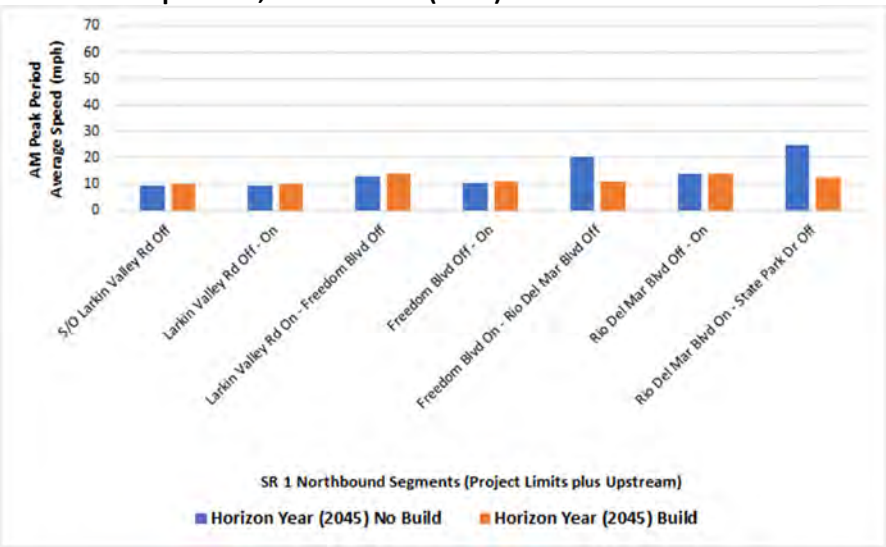


Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: PM peak period: 2 pm to 8 pm.

As shown in **Figure 8-3** and **Figure 8-4**, in the Horizon Year (2045), the speed or travel time benefits in the northbound direction become smaller due to the congestion created by a downstream bottleneck north of Soquel Avenue interchange. On the other hand, large Corridor level and local level speed or travel time improvements would occur both within the Project Limits and upstream of the Project Limits from SR 17 on-ramp to Freedom Boulevard off-ramp (about 8 miles).

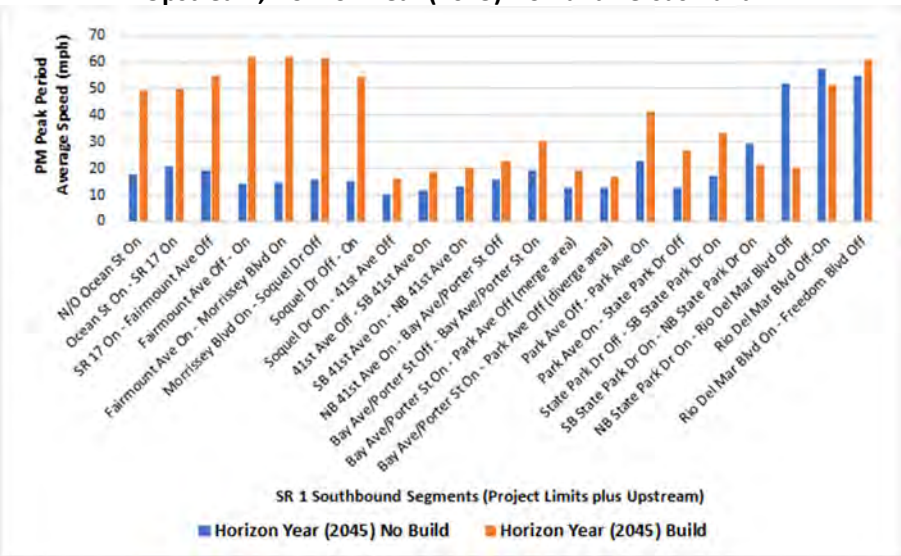
Figure 8-3 Average Speeds in Northbound AM Peak Period by Mainline Segment, Project Limits plus Upstream, Horizon Year (2045) No Build versus Build



Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: PM peak period: 2 pm to 8 pm.

Figure 8-4 Average Speeds in Southbound PM Peak Period by Mainline Segment, Project Limits plus Upstream, Horizon Year (2045) No Build versus Build

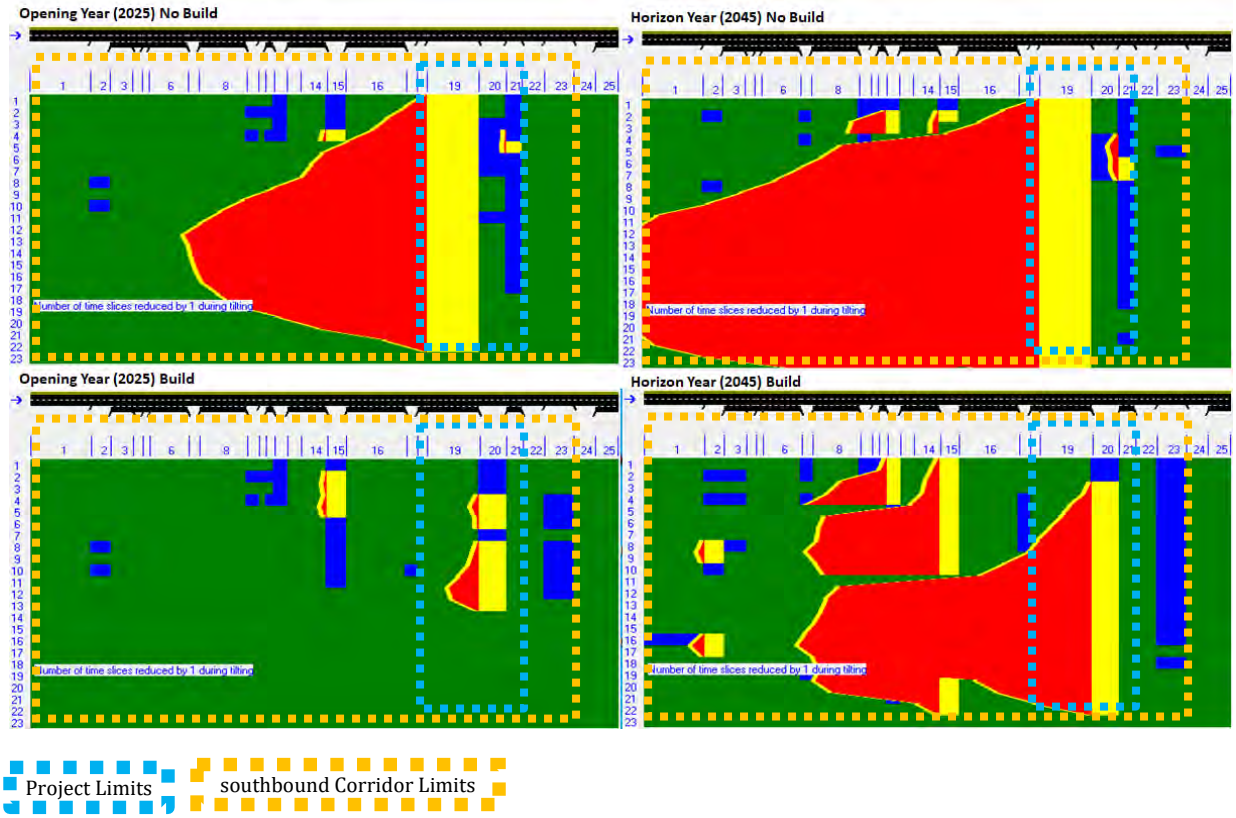


Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: PM peak period: 2 pm to 8 pm.

- **Increased vehicle throughput and reduced delay in the southbound direction**: The Project provides critical bottleneck relief as part of a series of planned auxiliary lanes projects in the southbound direction. Without this Project, the freeway vehicle throughput of SR 1 in the southbound direction would remain low and the delays to vehicles would be high. The peak period vehicle throughput in the southbound PM would be increased in the Corridor Limits from about 3,635 vehicles/hour to about 3,970 vehicles/hour, or by 9 percent, in the Horizon Year (2045). The Horizon Year (2045) No Build scenario was estimated to have 7,540 vehicle-hours of delay in the southbound PM peak period within the Corridor Limits which would be reduced by 45 percent to 4,150 vehicle-hours of delay under the Build scenario. This translates to a delay reduction of 10 minutes per vehicle in the peak period and 19 minutes per vehicle in the peak hour for the southbound PM movement within the Corridor Limits. The delay reduction benefits in the southbound direction in 2025 and 2045 can be visualized on the freeway condition diagrams shown in **Figure 8-5**.

Figure 8-5 Opening Year (2025) and Horizon Year (2045) Southbound PM Peak Period Freeway Condition Diagrams, No Build versus Build



Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: Color key: (a) green = free-flow conditions; (b) blue = near capacity conditions (0.9 <= volume over capacity <= 1.0); (c) yellow = bottleneck (volume over capacity = 1.0); and (d) red = congested flow conditions. Segments 18-21 represent the Project Limits. Segments 1-23 represent the Corridor Limits.

- **Overall delay reduction both directions combined:** As shown in **Table 8-2**, comparing Build to No Build scenarios, daily VHD increases in the northbound direction and decreases in the southbound direction. Combining the two directions, there is an overall reduction in daily VHD in all 2019, 2025, and 2045 years. For these years, the net delay reduction estimates due to the Project are 150 daily vehicle-hours, 2,950 daily vehicle-hours and 2,330 vehicle-hours of delay reduction, respectively. The drop in the benefits in 2045 is due to limited gain in travel time in the southbound direction and rapidly worsening congestion in the northbound direction due to the downstream bottleneck north of the Soquel Avenue interchange.

Table 8-2 Estimated Daily VHD in the SR 1 by Direction of Flow in 2019, 2025, and 2045

Year	Direction	Daily Vehicle Hours of Delay (DVHD) (in vehicle-hours)						
		No Build	With Aux Lns Only	Build	Change due to Aux Lns Only	Change due to BOS Only*	Change-Total	% Change-Total
2019	SR 1 northbound	1,190	1,280	1,250	90	-30	60	5.0%
	SR 1 southbound	2,930	2,750	2,720	-180	-30	-210	-7.2%
2025	SR 1 northbound	1,720	2,350	2,270	630	-80	550	32.0%
	SR 1 southbound	3,660	170	160	-3,490	-10	-3,500	-95.6%
2045	SR 1 northbound	4,530	5,650	5,590	1,120	-60	1,060	23.4%
	SR 1 southbound	7,540	4,290	4,150	-3,250	-140	-3,390	-45.0%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: *Aux Lanes are assumed to be present.

Legend:	Increase	Decrease

Appendix A

Detailed Methodology

This Appendix provides more detail on the data and methods used in the Study. The details on the data and methods are generally consistent with the SCCRTC's Highway 1[33] (Bay Avenue/Porter Street to State Park Drive) traffic operations analysis report (TOAR) and will be included in the draft final report for this Study. This Appendix points out the differences and changes made to the methods in the prior TOAR.

A macroscopic freeway analysis model, FREQ12 version 3.02 (also referred as "FREQ model"), was used to analyze the freeway traffic operations performance in terms of level of service (LOS) and average speed under the Existing (2019) conditions, the Existing (2019) Plus Build, Opening Year (2025) No Build, Opening Year (2025) Build, Horizon Year (2045) No Build, and Horizon Year (2045) Build scenarios. FREQ models for the northbound AM, northbound PM, southbound AM and southbound PM (also jointly referred to as "the FREQ model" in this memorandum) and under 2016 conditions were developed by CDM Smith for Caltrans District 5 / SCCRTC in a prior 2017 traffic study[34]. The "Traffic Modeling Limits" extends over SR 1 between SR 17 and Larkin Valley Road/San Andreas Road. These models were used as the starting point for this analysis to support updating the 2016 conditions to 2019. The FREQ model analyzes conditions over a 6-hour AM time period (6 am to 12 pm) and a 6-hour PM time period (2 pm to 8 pm). In the 2017 study, capacities on the SR 1 mainline segments between SR 17 and Larkin Valley Road/San Andreas Road were calibrated using October 2016 volume-speed studies. No freeway network changes were seen since the 2017 study, so these capacities were used without any changes in this study.

The traffic analysis methodology for this study consisted of several sub-methods and is described as follows.

A.1 Existing (2019) Traffic Volumes Estimation

In this study, no new traffic counts were performed; instead traffic volumes were collected / estimated and applied to the FREQ model to assess traffic operations performance under the Existing (2019) conditions using the following steps:

Step 1: *Initial* 2019 Volume Estimation and Balancing

Step 1 (a): Collected SR 1 Bay Avenue/Porter Street to State Park Drive Auxiliary Lanes and Bus on Shoulders Project Traffic Operations Analysis Report (TOAR) based 2019 mainline traffic daily and hourly volume estimates at the State Park Drive to Park Avenue segment, and 2019 ramp traffic daily and hourly volume estimates for the ramps outside the Project Limits.

Step 1(b): Collected Caltrans 2013/2014 weekday hourly ramp traffic counts for ramps within the Project Limits and updated them to 2019 using a compound annualized growth rate of 2.3 percent calculated in the SR 1 Bay Avenue/Porter Street to State Park Drive Auxiliary Lanes and Bus on Shoulders Project TOAR based on AADT growth.

[33] Also referred to as State Route 1 or SR 1 in this report.
[34] CDM Smith's Memo to Caltrans District 5 titled "Santa Cruz Highway 1 Widening/HOV Lane Project – Final 2016/2017 Traffic Analysis Update" and dated July 14, 2017.

Step 1(c): Applied basic arithmetic (additions and subtractions) on the 2019 volumes on SR 1 mainline between State Park Drive and Park Avenue and on- and off-ramps along SR 1 to calculate the volumes on the remaining SR 1 mainline segments in the FREQ model by direction of movement and time period. This ensured volume balancing from each freeway segment to the next.

Step 2: Volume Capping, Peak Spreading and FREQ Model Input Volumes

Step 2(a): While the weekday hourly demand estimates on mainline segments could go higher than the FREQ model's theoretical capacity, they were capped to a value of 4,500 vehicles/hour35 for a limited time of the day with allowance for queuing.

Step 2(b): Volume estimates in excess of the cap value were subjected to a"peak spreading"36 methodology.

Step 2(c): Applied 15-minute interval traffic factors based on SCCRTC's October 2016 weekday traffic counts to estimate to convert hourly volumes to 15-minute interval volumes.

Step 3: FREQ Model Run and Heatmap Comparison between FREQ Model Predicted Speeds and Caltrans PeMS (plus INRIX) Observed Speeds

Step 3(a): Collected hourly speeds37 from Caltrans PeMS from Larkin Valley interchange to SR 17 (that is, CA PM 7.551 to CA PM 17.006) between October 15-24, 2019 by direction and by mainline segment. Caltrans PeMS data with over 85 percent observation38 was aggregated over midweek days (Tuesday through Thursday) to compute average hourly speeds.

Step 3(b): For the mainline segments with no 2019 Caltrans PeMS hourly speeds or 2019 Caltrans PeMS hourly speeds are significantly different to the 2016 INRIX hourly speeds, 2016 INRIX midweek hourly speeds for the mainline segments were used to impute 2019 speeds by applying relative speed factors to adjacent mainline segments with Caltrans PeMS data. A heatmap for the Caltrans PeMS observed speeds plus INRIX based imputed speeds was then developed.

Step 3(c): The FREQ model was run using 15-minute interval volume inputs and the speed outputs were aggregated to hourly averages by mainline segment to develop another heatmap.

Step 3(d): A comparison statistic (Chi-square value) was then estimated with Caltrans PeMS (plus INRIX) speed as "observed value" and FREQ model speed as "predicted value".

---

[35] Caps lower than 4,500 vehicles/hour were found to result in excessive peak spreading; while caps higher than 4,500 vehicles/hour were found to result in excessive freeway delays and density (or very poor levels of service). Hence, the cap enabled a practical trip planning – start/end the trip in the neighboring hour while also not face excessive delays.

[36] The excess hourly volume above the caps was re-distributed to the neighboring hours of the day. "Peak spreading" resulted in shift in traffic between peak and off-peak time periods.

[37] Speeds were collected for the mainline segments at interchanges and between interchanges. Speeds were computed using Caltrans PeMS vehicle miles traveled (VMT) over vehicle hours traveled (VHT) for these mainline segments.

[38] Caltrans PeMS imputes speeds when observed speeds are not available. This study preferred to use a high percentage of observed speeds.

Step 4: *Final* 2019 Volume Estimation and FREQ Model Run

Step 4(a): Global adjustments were made to the hourly volume shares on SR 1 mainline based on Caltrans's historical 7-day mainline counts over a few iterations until the predicted speeds based on the FREQ model were close enough to the observed speeds using Caltrans PeMS plus INRIX. The peak hours were identified using the peak directions as 7 to 8 am and 4 to 5 pm. **Table A-1** summarizes the volume share adjustments made by hour of day.

Table A-1 SR 1 Mainline Peak Period Hourly Volume Shares - Before and After Adjustments

Hour of Day	"Before" Adjustment Hourly Volume Share		"After" Adjustment Hourly Volume Share	
	SR 1 northbound	SR 1 southbound	SR 1 northbound	SR 1 southbound
6 AM – 7 AM	7.6%	4.6%	7.3%	4.4%
7 AM – 8 AM	**7.5%**	**5.8%**	**7.3%**	**5.8%**
8 AM – 9 AM	6.1%	5.7%	6.8%	5.5%
9 AM – 10 AM	6.6%	5.3%	6.8%	5.1%
10 AM – 11 AM	6.3%	5.9%	5.6%	5.6%
11 AM – 12 PM	6.4%	6.4%	6.5%	6.2%
2 PM – 3 PM	6.3%	7.5%	6.1%	7.7%
3 PM – 4 PM	6.3%	6.3%	6.0%	7.6%
4 PM – 5 PM	**5.6%**	**7.7%**	**5.6%**	**7.8%**
5 PM – 6 PM	5.6%	6.5%	5.4%	6.7%
6 PM – 7 PM	4.0%	6.0%	3.8%	6.5%
7 PM – 8 PM	2.7%	4.8%	2.6%	4.8%
Off-Peak Hours Total	28.9%	27.5%	30.2%	26.3%
Daily TOTAL	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Source: Caltrans' Mainline and Ramp Traffic Counts, 2019 Caltrans PeMS Speeds; October 2016 INRIX Speeds; Existing (2019) conditions FREQ Model; CDM Smith's FREQ Model Calibration.

Note: **Bold** hours of day represent the identified peak hours.

Step 4(b): Based on Caltrans PeMS 2019 observed speeds, local adjustment was made to AM peak period volume on Soquel Avenue to Morrissey Boulevard mainline segment to represent a mainline bottleneck forming in the SR 1 northbound direction in the AM peak period just upstream of Soquel Avenue.

To substantiate the identified bottleneck additional data was reviewed as follows:

- **Figure A-1** shows a comparison of the northbound 4-hour (6 am to 10 am) AM average speeds based on Caltrans PeMS 2019 data and INRIX 2016 data for the SR 1 mainline segments betweeen 41st Avenue and Morrissey Boulevard. The figure shows that there was a deterioration in average speeds between 2016 and 2019 in the identified bottleneck area.

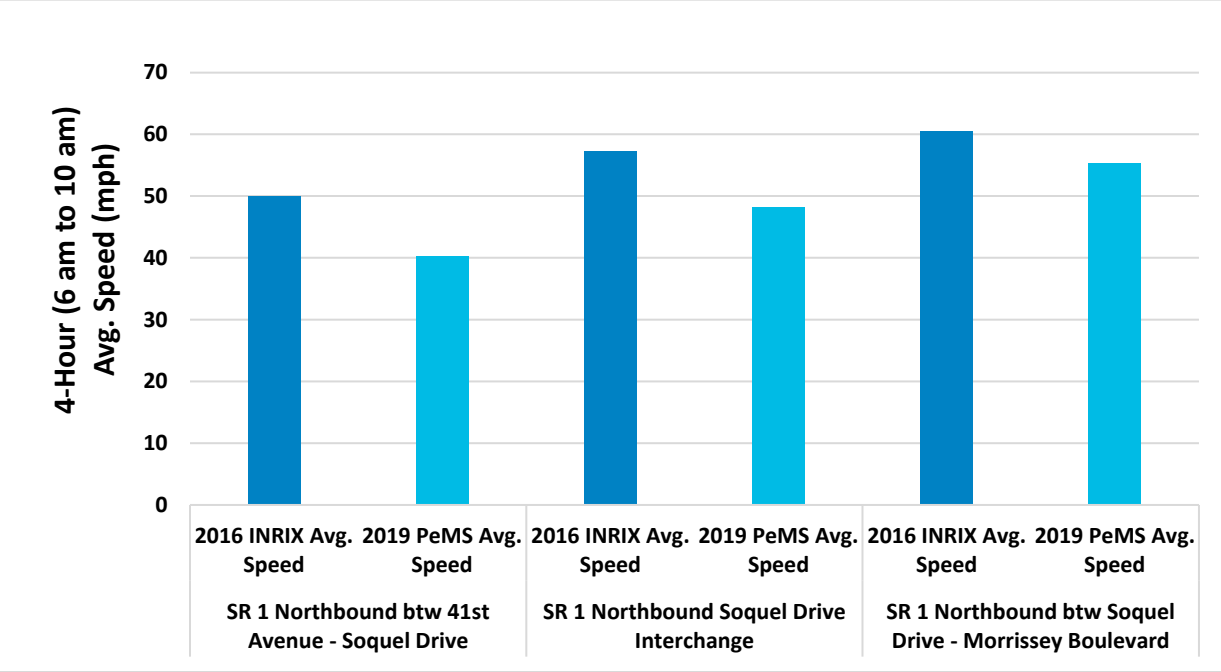
- Comparing the vehicle throughput (measured as vehicle-miles traveled) using the October 2016 and October 2019 Caltrans PeMS

data, on SR 1 northbound between Soquel Avenue on-ramp to Morissey Boulevard off-ramp during 6-10 am also decreased from 17,765 vehicle-miles to 15,802 vehicle-miles, that is, by 11 percent.

- The Labor Market Information Division of the California Employment Development Department indicated that the annual average employment in Santa Cruz County were 133,700 and 135,500 in 2016 and 2019, respectively[39]. This is a 1.3 percent increase in employment over the 3 years.

The identified bottleneck is thus a result of growth in travel under a fixed roadway capacity and resultant speed deterioration and lowered vehicle throughput. While COVID-19 pandemic has reduced travel and the countywide employment fell down to an average of about 121,000 in 2020 (January-August), the bottleneck would return after the county's (and California's) economy and travel on the SR 1 Corridor return to the year 2019 level and would continue to impact the northbound AM traffic results.

Figure A-1 Comparison of SR 1 Northbound AM Mainline Average Speeds during AM Period (4 hours: 6 am to 10 am only), 41st Avenue to Morrissey Boulevard, Caltrans PeMS 2019 speeds versus INRIX 2016 speeds



Source: 2019 Caltrans PeMS Speeds; October 2016 INRIX Speeds.

In order to incorporate the identified bottleneck in the traffic operations analysis, a local adjustment was made by increasing volume on SR 1 Soquel Avenue on-ramps (entering traffic) and Morrissey Boulevard off-ramp (exiting traffic) volumes by 2,250 vehicles in the northbound AM peak

[39] https://www.labormarketinfo.edd.ca.gov/geography/santacruz-county.html (last accessed on October 12, 2020)

period; which is about 38% over the current volume at these ramps. The highest value that the volume on these ramps reaches as a result is about 1,200 vehicles/hour. Assumptions were made on the distribution of the volume increase across the hours to get the closest match between the speed heatmaps using FREQ model predicted speeds and Caltrans PeMS plus INRIX observed speeds. **Table A-2** shows the hourly distribution assumptions for the local volume adjustment in the northbound AM peak period.

Table A-2 Hourly Distribution of the Northbound AM Peak Period Local Volume Adjustments on SR 1 mainline segment between Soquel Avenue on-ramps and Morrissey Boulevard off-ramp

Hour	Hourly Distribution of Local Volume Adjustments
6 AM – 7 AM	5.0%
7 AM – 8 AM	15.0%
8 AM – 9 AM	17.5%
9 AM – 10 AM	22.5%
10 AM – 11 AM	22.0%
11 AM – 12 PM	18.0%
TOTAL	**100.0%**

Source: 2019 Caltrans PeMS Speeds; October 2016 INRIX Speeds; Existing (2019) conditions FREQ Model; CDM Smith's FREQ Model Calibration.

Step 4(c): Repeated Step 1-3 with the modification that the 2019 mainline traffic hourly volumes were estimated using the volume adjustments in Steps 4(a) and 4(b).

The volumes developed in this study were compared to that in the SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR. The volume at the mainline segment common to these studies, namely, State Park to Park Avenue, showed that the weekday volumes in the prior TOAR under the Existing (2019) conditions were adjusted of -0.9 percent, -3.0 percent, -3.5 percent and 6.0 percent in the northbound AM, northbound PM, southbound AM and southbound PM peak periods, respectively. There was no change between the studies in the weekday daily total volume on this mainline segment. The differences are attributed to the global adjustments made as part of the FREQ model re-calibration. The local adjustments made as part of the FREQ model re-calibration resulted in 1,000 additional vehicles on northbound Soquel Drive on-ramp, 1,250 additional vehicles on southbound Soquel Drive on-ramp, and 2,250 additional vehicles on Morrissey Boulevard off-ramp in the SR 1 northbound direction during the AM peak period under the Existing (2019) conditions compared to the prior TOAR. Lastly, the use of Caltrans counts in place of SCCRTC counts on the ramps at Rio Del Mar Boulevard and Freedom Boulevard interchanges in this study resulted in the volumes changing (up/down) by a few hundred vehicles over the peak periods under the Existing (2019) conditions compared to the prior TOAR.

Figure A-2 and **Figure A-3** show the year 2019 speed heatmaps in the AM and PM peak periods over the Traffic Modeling Limits based on Caltrans PeMS plus INRIX observed speeds and the Existing (2019) conditions FREQ model predicted speeds, respectively. The FREQ model predicted speed patterns similar to the Caltrans PeMS plus INRIX observed speeds.

Figure A-2 SR 1 Northbound 2019 Speed Heatmaps Comparison under Existing (2019) Conditions over the Traffic Modeling Limits

Caltrans PeMS plus INRIX 2019 Observed Speeds Heatmap

SR 1 - Northbound

Watsonville → Santa Cruz

		Larkin Valley Rd Off to Larkin Valley Rd On	Larkin Valley Rd On to Freedom Blvd Off	Freedom Blvd Off to Freedom Blvd On	Freedom Blvd On to Rio Del Mar Blvd Off	Rio Del Mar Blvd Off to Rio Del Mar Blvd On	Rio Del Mar Blvd On to State Park Dr Off	State Park Dr Off to State Park Dr On	State Park Dr On to Park Ave Off	Park Ave Off to Park Ave On	Park Ave On to Bay Ave/Porter St Off	Bay Ave/Porter St Off to Bay Ave/Porter St On	Bay Ave/Porter St On to 41st Ave Off	41st Ave Off to 41st Ave On	41st Ave On to Soquel Ave Off	Soquel Ave Off to Soquel Ave On	Soquel Ave On to Morrissey Blvd Off	Morrissey Blvd Off to Morrissey Blvd On	Morrissey Blvd On to SR 17 Off	SR 17 Off to SR 17 On
AM Period	6-7	41	35	40	39	42	45	45	54	56	55	56	55	60	59	58	58	61	52	64
	7-8	23	9	9	13	19	24	25	36	37	37	37	37	40	41	48	62	62	63	65
	8-9	54	9	9	9	15	19	19	24	22	22	23	23	26	29	44	61	61	62	64
	9-10	61	38	30	19	24	27	27	33	32	32	33	33	30	33	43	61	61	62	61
	10-11	66	63	61	56	52	49	46	45	46	46	47	47	30	32	44	62	62	63	63
	11-12	65	66	63	64	63	62	61	60	60	59	61	60	48	51	53	64	63	64	64
PM Period	14-15	66	65	65	64	64	63	62	62	63	66	67	66	55	56	56	65	64	65	65
	15-16	66	66	65	64	62	61	60	59	60	66	67	66	61	60	61	65	64	65	65
	16-17	66	63	60	57	56	56	54	57	58	66	68	66	57	56	57	65	65	66	66
	17-18	66	66	63	59	56	55	54	53	54	66	68	66	60	59	61	65	65	66	66
	18-19	66	67	65	63	59	58	57	57	59	66	67	66	63	62	62	65	65	66	66
	19-20	67	67	66	66	66	67	64	64	65	67	68	66	65	64	64	66	66	66	67

Existing (2019) Condition FREQ Model Predicted Speeds Heatmap

SR 1 - Northbound

Watsonville → Santa Cruz

		Larkin Valley Rd Off to Larkin Valley Rd On	Larkin Valley Rd On to Freedom Blvd Off	Freedom Blvd Off to Freedom Blvd On	Freedom Blvd On to Rio Del Mar Blvd Off	Rio Del Mar Blvd Off to Rio Del Mar Blvd On	Rio Del Mar Blvd On to State Park Dr Off	State Park Dr Off to State Park Dr On	State Park Dr On to Park Ave Off	Park Ave Off to Park Ave On	Park Ave On to Bay Ave/Porter St Off	Bay Ave/Porter St Off to Bay Ave/Porter St On	Bay Ave/Porter St On to 41st Ave Off	41st Ave Off to 41st Ave On	41st Ave On to Soquel Ave Off	Soquel Ave Off to Soquel Ave On	Soquel Ave On to Morrissey Blvd Off	Morrissey Blvd Off to Morrissey Blvd On	Morrissey Blvd On to SR 17 Off	SR 17 Off to SR 17 On
AM Period	6-7	55	51	41	45	39	46	42	54	57	57	59	62	61	59	59	61	60	62	62
	7-8	19	14	10	29	20	36	25	43	38	40	33	54	61	45	39	51	58	62	62
	8-9	32	15	12	28	18	29	19	26	19	25	20	34	18	27	27	45	58	62	62
	9-10	62	50	18	29	20	31	21	30	25	33	23	29	17	29	29	45	59	62	62
	10-11	62	62	62	62	62	57	43	43	32	36	27	31	21	33	31	47	60	62	62
	11-12	62	62	62	61	62	61	62	59	61	57	61	62	62	54	45	48	58	62	62
PM Period	14-15	62	62	62	62	62	61	62	61	62	58	61	62	62	59	60	62	61	62	62
	15-16	62	62	62	62	62	61	62	62	62	60	62	62	62	60	60	62	61	62	62
	16-17	62	62	62	61	62	62	62	62	62	61	62	62	62	62	62	62	62	62	62
	17-18	62	62	62	61	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
	18-19	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
	19-20	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62

Legend for Speed Data:

Green	Greater than 55 mph
Yellow	45 to 55 mph
Orange	35 to 45 mph
Red	25 to 35 mph
Dark Red	Less than 25 mph

Source: 2019 Caltrans PeMS Speeds; October 2016 INRIX Speeds; Existing (2019) conditions FREQ Model; CDM Smith's FREQ Model Calibration

Note: *Traffic Modeling Limits* = SR 1 between SR 17 and Larkin Valley Road/San Andreas Road

Figure A-3 SR 1 Southbound 2019 Speed Heatmaps Comparison under Existing (2019) Conditions over the Traffic Modeling Limits

Caltrans PeMS plus INRIX 2019 Observed Speeds Heatmap

SR 1 - Southbound

Santa Cruz → Watsonville

		SR 17 Off to SR 17 On	SR 17 On to Morrissey Blvd Off	Morrissey Blvd Off to Morrissey Blvd On	Morrissey Blvd On to Soquel Ave Off	Soquel Ave Off to Soquel Ave On	Soquel Ave On to 41st Ave Off	41st Ave Off to 41st Ave On	41st Ave On to Bay Ave/Porter St Off	Bay Ave/Porter St Off to Bay Ave/Porter St On	Bay Ave/Porter St On to Park Ave Off	Park Ave Off to Park Ave On	Park Ave On to State Park Dr Off	State Park Dr Off to State Park Dr On	State Park Dr On to Rio Del Mar Blvd Off	Rio Del Mar Blvd Off to Rio Del Mar Blvd On	Rio Del Mar Blvd On to Freedom Blvd Off	Freedom Blvd Off to Freedom Blvd On	Freedom Blvd On to Larkin Valley Rd Off	Larkin Valley Rd Off to Larkin Valley Rd On
AM Period	6-7	53	60	60	68	68	68	68	66	68	68	68	66	67	68	68	68	66	70	74
	7-8	53	60	61	53	52	62	61	59	63	63	65	62	63	64	64	64	62	68	74
	8-9	51	58	60	42	41	58	60	58	62	62	63	61	62	62	62	62	62	68	74
	9-10	50	56	57	58	57	61	63	61	62	63	65	62	63	62	62	63	63	69	75
	10-11	52	59	59	56	56	59	62	60	62	62	64	60	62	61	62	62	64	69	75
	11-12	55	62	63	56	55	58	60	58	61	61	64	59	61	60	61	62	63	68	74
PM Period	14-15	51	53	47	28	24	34	29	28	49	55	60	54	55	56	58	59	61	67	73
	15-16	45	36	25	18	17	13	16	15	31	38	42	43	44	46	52	52	58	67	74
	16-17	46	39	26	14	13	8	11	10	16	19	17	34	35	43	52	53	58	67	74
	17-18	45	40	26	12	11	8	11	11	19	21	18	32	30	46	54	55	59	68	76
	18-19	48	53	44	28	26	24	20	20	28	31	29	40	39	52	58	59	60	67	74
	19-20	53	61	62	60	57	55	53	51	57	57	59	57	57	60	61	62	61	68	73

Existing (2019) Condition FREQ Model Predicted Speeds Heatmap

SR 1 - Southbound

Santa Cruz → Watsonville

		SR 17 Off to SR 17 On	SR 17 On to Morrissey Blvd Off	Morrissey Blvd Off to Morrissey Blvd On	Morrissey Blvd On to Soquel Ave Off	Soquel Ave Off to Soquel Ave On	Soquel Ave On to 41st Ave Off	41st Ave Off to 41st Ave On	41st Ave On to Bay Ave/Porter St Off	Bay Ave/Porter St Off to Bay Ave/Porter St On	Bay Ave/Porter St On to Park Ave Off	Park Ave Off to Park Ave On	Park Ave On to State Park Dr Off	State Park Dr Off to State Park Dr On	State Park Dr On to Rio Del Mar Blvd Off	Rio Del Mar Blvd Off to Rio Del Mar Blvd On	Rio Del Mar Blvd On to Freedom Blvd Off	Freedom Blvd Off to Freedom Blvd On	Freedom Blvd On to Larkin Valley Rd Off	Larkin Valley Rd Off to Larkin Valley Rd On
AM Period	6-7	50	55	62	62	62	62	62	62	62	62	62	62	62	62	61	61	62	62	65
	7-8	50	55	62	62	62	60	61	62	49	57	62	61	62	61	61	59	62	61	64
	8-9	50	55	62	62	62	57	61	62	48	59	62	61	62	62	61	61	62	62	65
	9-10	50	55	62	62	62	58	61	62	55	58	62	62	62	62	61	61	62	62	65
	10-11	50	55	62	62	62	57	62	62	61	59	62	61	62	62	61	61	62	62	65
	11-12	50	55	62	62	62	57	62	62	62	58	62	60	62	62	61	61	62	62	65
PM Period	14-15	50	55	62	58	42	35	24	24	24	52	47	52	62	55	58	56	62	60	65
	15-16	50	55	62	22	11	14	12	13	17	32	23	52	61	53	57	54	62	60	64
	16-17	43	25	13	11	10	13	10	11	14	26	20	43	22	47	57	54	62	61	65
	17-18	42	27	13	12	11	13	10	12	16	29	19	36	16	46	58	56	62	61	65
	18-19	50	55	62	47	32	27	21	19	23	37	27	40	45	52	60	59	62	62	65
	19-20	50	55	62	62	62	62	62	62	62	62	62	44	62	62	61	61	62	62	65

Legend for Speed Data:

Green	Greater than 55 mph
Yellow	45 to 55 mph
Orange	35 to 45 mph
Red	25 to 35 mph
Dark Red	Less than 25 mph

Source: 2019 Caltrans PeMS Speeds; October 2016 INRIX Speeds; Existing (2019) conditions FREQ Model; CDM Smith's FREQ Model Calibration

Note: *Traffic Modeling Limits* = SR 1 between SR 17 and Larkin Valley Road/San Andreas Road

Table A-3 shows the chi-square statistics computed for the Existing (2019) conditions FREQ model predicted speeds in comparison to Caltrans PeMS plus INRIX 2019 observed speeds aggregated over AM and PM peak periods for the Traffic Modeling Limits and the Project Limits and its adjacent segments combined.

Table A-3 Chi-Square Statistic for Comparisons of 2019 Speeds between Existing (2019) Conditions FREQ Model Predicted Speeds to Caltrans PeMS plus INRIX Observed Speeds

Chi-Square Statistic over Traffic Modeling Limits (SR 17 to Larkin Valley Road)			Chi-Square Statistic over Project Limits + Adj. Segments (Park Avenue to Larkin Valley Road)		
SR 1 northbound	SR 1 southbound	Total	SR 1 northbound	SR 1 southbound	Total
260	323	**583**	120	43	**163**

Source: 2019 Caltrans PeMS Speeds; October 2016 INRIX Speeds; Existing (2019) conditions FREQ Model; CDM Smith's FREQ Model Calibration

Note: *Traffic Modeling Limits* = SR 1 between SR 17 and Larkin Valley Road/San Andreas Road. Peak period: 6 AM-12 PM, 2-8 PM.

A.2 2025 and 2045 No Build Traffic Volumes Estimation

Similar to the SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR, this Study utilized the 2015 and 2040 model outputs from the Association of Monterey Bay Area Governments (AMBAG)'s regional travel demand model developed for the 2040 Metropolitan Transportation Plan/Sustainable Communities Strategy to derive the annual growth rates to grow the traffic volumes from the Existing (2019) year to baseline forecast values in the Opening Year (2025) and Horizon Year (2045). To the baseline forecasts, induced traffic demand associated with the background projects (P1 and P2) was added to estimate the traffic volumes for the Opening Year (2025) and Horizon Year (2045) No Build scenarios. The hourly demand forecasts could go higher than the theoretical capacity but were kept lower than an upper limit (or a cap value) of 4,500 vehicles/hour for a limited time of the day with allowance for queuing. A "peak spreading" methodology was applied to weekday hourly demand estimates higher than this cap value. For the hours of the day when the capping and peak spreading were active, there is a lowered traffic volume growth percentage than the baseline (uncapped and no peak spreading) estimate.

This study, however, made two key improvements over the SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR methodology: (1) In this study, as explained in the *Existing Conditions* memorandum, the Existing (2019) volumes were calibrated to match the observed speeds not just in the Project Limits but also in the Traffic Modeling Limits (SR 17 to Larkin Valley Road/San Andreas Road), and (2) The capping and peak spreading was carried out only on the mainline segments without auxiliary lanes (different segments were capped under the different Project scenarios) and the volumes on the mainline segments with auxiliary lanes were not capped (demand volumes on such segments reached just over 5,000 vehicles/hour by the Horizon Year of 2045 in some analysis hours). These resulted in the identification of and calibration for bottlenecks that are outside the Project Limits, a lowered use of the capping and peak spreading calculation and an increase in the vehicle throughput especially in the peak directions compared to the prior TOAR. Consequently, it also resulted in estimates of higher congestion and a lower freeway level of service (LOS) in the peak directions under the future years (2025 and 2045).

Table A-4 and **Table A-5** show the Opening Year (2025) and Horizon Year (2045) baseline projected traffic volumes in the SR 1 northbound and southbound directions, respectively.

Table A-4 Estimated Weekday Volume Estimation by SR 1 Northbound Mainline Segment and Ramp inside and outside the Project Limits using AMBAG Model, Opening Year (2025) and Horizon Year (2045) Baseline Forecast

Location	Type	Inside / Outside Project Limits?	Existing Year (2019) Volumes (vehicles)			AMBAG Model Base Year (2015) Volume (vehicles)			AMBAG Model Base Year (2040) Volume (vehicles)			AMBAG Model CAGR, 2015-2040			Opening Year (2025) Baseline Forecast Volumes (vehicles)			Horizon Year (2045) Baseline Forecast Volumes (vehicles)		
			AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Off-Peak Period	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total
S/O Larkin Valley Road off-ramp	Mainline	Outside	14,770	12,440	N.A.										15,530	13,060	N.A.	18,250	15,300	N.A.
Larkin Valley Road off-ramp	Ramp	Outside	580	630	N.A.	389	688	2,888	454	769	3,253	0.62%	0.45%	0.46%	620	660	N.A.	700	720	N.A.
Larkin Valley Road on-ramp	Ramp	Outside	2,300	1,590	N.A.	730	702	3,625	519	656	2,531	0.00%	0.00%	0.00%	2,320	1,610	N.A.	2,320	1,610	N.A.
Larkin Valley Road on-ramp to Freedom Boulevard off-ramp	Mainline	Inside	16,490	13,400	43,800										17,220	14,010	45,600	19,870	16,180	52,000
Freedom Boulevard off-ramp	Ramp	Inside	850	870	2,200	170	442	1,484	292	429	1,524	2.18%	0.00%	0.00%	980	890	2,300	1,500	890	2,800
Freedom Boulevard off-on Ramps	Mainline	Inside	15,650	12,540	41,600										16,250	13,120	43,300	18,380	15,300	49,300
Freedom Boulevard on-ramp	Ramp	Inside	4,350	3,030	9,200	564	842	3,112	544	800	2,758	0.00%	0.00%	0.00%	4,360	3,040	9,300	4,360	3,040	9,300
Freedom Boulevard on-ramp to Rio Del Mar Boulevard off-ramp	Mainline	Inside	20,000	15,560	50,800										20,600	16,160	52,500	22,730	18,340	58,500
Rio Del Mar Boulevard off	Ramp	Inside	1,790	2,300	5,300	918	1,229	5,120	1,146	1,336	5,884	0.89%	0.33%	0.54%	1,900	2,360	5,600	2,260	2,520	6,200
Rio Del Mar Boulevard off-on Ramps	Mainline	Inside	18,210	13,260	45,500										18,710	13,800	47,000	20,470	15,820	52,300
Rio Del Mar Boulevard on-ramp	Ramp	Inside	3,170	2,530	7,400	819	853	3,949	1,102	972	5,122	1.20%	0.53%	1.17%	3,410	2,630	7,900	4,330	2,910	9,600
Rio Del Mar Boulevard on-ramp to State Park Drive off-ramp	Mainline	Inside	21,370	15,790	52,900										22,120	16,430	54,900	24,790	18,730	61,800
Seacliff Drive off-ramp	Ramp	Inside	3,200	2,920	7,800	1,290	1,206	6,484	1,354	1,413	6,857	0.19%	0.64%	0.10%	3,240	3,040	8,000	3,370	3,450	8,600
State Park Drive off-on Ramps	Mainline	Inside	18,180	12,880	45,100										18,880	13,390	46,900	21,430	15,290	53,300
State Park Drive northbound on-ramp	Ramp	Inside	1,090	920	2,700	1,226	1,444	6,677	1,258	1,537	6,740	0.10%	0.25%	0.00%	1,110	950	2,800	1,130	990	2,900
State Park Drive on-on Ramps	Mainline	Inside	19,260	13,800	47,800										19,980	14,330	49,700	22,550	16,280	56,100
State Park Drive southbound on-ramp	Ramp	Inside	2,740	2,430	6,900	1,226	1,444	6,677	1,258	1,537	6,740	0.10%	0.25%	0.00%	2,770	2,480	7,000	2,830	2,600	7,200
State Park Drive on-ramp to Park Avenue off-ramp	Mainline	Inside	22,000	16,220	54,700	8,681	9,281	41,223	9,954	10,729	47,296	0.55%	0.58%	0.54%	22,740	16,810	56,600	25,370	18,870	63,300
Park Avenue off-ramp	Ramp	Outside	1,720	2,000	4,700	913	1,175	4,629	992	1,187	5,060	0.33%	0.04%	0.50%	1,770	2,010	4,900	1,890	2,030	5,100
Park Avenue off-on Ramps	Mainline	Outside	20,280	14,230	50,000										20,980	14,800	51,800	23,490	16,850	58,200
Park Avenue on-ramp	Ramp	Outside	3,300	3,970	10,100	853	1,281	4,821	967	1,438	5,753	0.50%	0.46%	0.88%	3,410	4,090	10,600	3,770	4,480	11,900
Park Avenue on-ramp to Bay Avenue/Porter street off-ramp	Mainline	Outside	23,580	18,190	60,100										24,380	18,890	62,300	27,260	21,320	70,000
Bay Avenue/Porter Street off-ramp	Ramp	Outside	2,020	2,410	5,800	441	716	2,757	486	735	2,845	0.39%	0.10%	0.06%	2,080	2,430	6,000	2,250	2,480	6,200
Bay Avenue/Porter Street off-on Ramps	Mainline	Outside	21,560	15,790	54,300										22,310	16,460	56,400	25,020	18,850	63,900
Bay Avenue/Porter Street on-ramp	Ramp	Outside	4,790	4,150	11,900	1,736	2,199	9,494	1,863	2,337	10,167	0.28%	0.24%	0.28%	4,890	4,230	12,200	5,170	4,440	12,900
Bay Avenue/Porter Street on-ramp to 41st Avenue off-ramp	Mainline	Outside	26,350	19,940	66,200										27,190	20,680	68,500	30,180	23,280	76,700
41st Avenue off-ramp	Ramp	Outside	6,800	6,710	N.A.	1,918	2,509	10,631	2,114	2,747	11,530	0.39%	0.36%	0.29%	6,980	6,870	N.A.	7,540	7,390	N.A.

Location	Type	Inside / Outside Project Limits?	Existing Year (2019) Volumes (vehicles)			AMBAG Model Base Year (2015) Volume (vehicles)			AMBAG Model Base Year (2040) Volume (vehicles)			AMBAG Model CAGR, 2015-2040			Opening Year (2025) Baseline Forecast Volumes (vehicles)			Horizon Year (2045) Baseline Forecast Volumes (vehicles)		
			AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Off-Peak Period	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total
northbound 41st Avenue on-ramp	Ramp	Outside	3,360	3,300	N.A.	994	1,537	6,364	1,058	1,691	6,891	0.25%	0.38%	0.31%	3,430	3,390	N.A.	3,600	3,660	N.A.
southbound 41st Avenue on-ramp	Ramp	Outside	1,100	1,090	N.A.	994	1,537	6,364	1,058	1,691	6,891	0.25%	0.38%	0.31%	1,130	1,130	N.A.	1,190	1,220	N.A.
41st Avenue on-ramp to Soquel Avenue off-ramp	Mainline	Outside	24,010	17,620	N.A.										24,770	18,330	N.A.	27,420	20,770	N.A.
Soquel Avenue off-ramp	Ramp	Outside	3,660	2,940	N.A.	1,049	1,245	5,362	1,188	1,401	5,956	0.50%	0.47%	0.37%	3,790	3,040	N.A.	4,190	3,340	N.A.
northbound Soquel Avenue on-ramp	Ramp	Outside	3,770	2,260	N.A.	900	1,144	5,109	811	1,085	4,055	0.00%	0.00%	0.00%	3,790	2,280	N.A.	3,790	2,280	N.A.
southbound Soquel Avenue on-ramp	Ramp	Outside	4,510	3,260	N.A.	735	1,284	4,595	837	1,229	4,282	0.52%	0.00%	0.00%	4,670	3,280	N.A.	5,180	3,280	N.A.
Morrissey Boulevard off-ramp	Ramp	Outside	5,850	4,260	N.A.	2,557	2,887	13,291	2,699	3,318	14,990	0.22%	0.56%	0.54%	5,940	4,420	N.A.	6,210	4,940	N.A.
Morrissey Boulevard on-ramp	Ramp	Outside	1,810	1,830	N.A.	666	672	3,171	490	449	2,327	0.00%	0.00%	0.00%	1,830	1,850	N.A.	1,830	1,850	N.A.
Emeline Avenue off-ramp	Ramp	Outside	1,160	830	N.A.	873	965	4,399	657	990	4,139	0.00%	0.11%	0.00%	1,170	850	N.A.	1,170	870	N.A.
northbound SR 17 off-ramp	Ramp	Outside	10,760	8,350	N.A.	4,180	4,483	19,488	4,160	4,370	19,469	0.00%	0.00%	0.04%	10,780	8,370	N.A.	10,780	8,370	N.A.
N/O SR 17 off-ramp	Mainline	Outside	12,670	8,590	N.A.										13,380	9,050	N.A.	15,880	10,660	N.A.
Mainline Average		**Inside**	**18,900**	**14,190**	**47,800**										**19,570**	**14,760**	**49,600**	**21,950**	**16,860**	**55,900**
On-Ramps Total		**Inside**	**11,350**	**8,910**	**26,200**										**11,650**	**9,100**	**27,000**	**12,650**	**9,540**	**29,000**
Off-Ramps Total		**Inside**	**5,840**	**6,090**	**15,300**										**6,120**	**6,290**	**15,900**	**7,130**	**6,860**	**17,600**

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CDM Smith's Traffic Analysis.

Notes: Traffic operations analysis was performed for AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm. On the other hand, the AMBAG Travel Demand Model uses AM Period: 6 am to 9 am; PM Period: 4 pm to 7 pm. Hence, these volume totals are not comparable. The volume totals are shown for information purposes only. No adjustments were made to the Existing (2019) No Build volumes were made based on the AMBAG Model. Compound Annualized Growth Rates (CAGR) in traffic by time period were applied to Existing Year (2019) No Build hourly total volumes and aggregated to time period total and rounded up to the nearest ten vehicles, and aggregated to daily totals and rounded up to the nearest 100 vehicles. Growth rate floor of zero percent was used for all CAGRs.

Table A-5 Estimated Weekday Volume Estimation by SR 1 Southbound Mainline and Ramp inside and outside the Project Limits using AMBAG Model, Opening Year (2025) and Horizon Year (2045) Baseline Forecast

Location	Type	Inside / Outside Project Limits?	Existing Year (2019) Volumes (vehicles)			AMBAG Model Base Year (2015) Volume (vehicles)			AMBAG Model Base Year (2040) Volume (vehicles)			AMBAG Model CAGR, 2015-2040			Opening Year (2025) Baseline Forecast Volumes (vehicles)			Horizon Year (2045) Baseline Forecast Volumes (vehicles)		
			AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Off-Peak Period	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total
N/O Ocean Street on-ramp	Mainline	Outside	8,890	13,180	N.A.										9,190	13,650	N.A.	10,370	15,430	N.A.
Ocean Street on-ramp	Ramp	Outside	3,250	2,380	N.A.	221	577	2,288	290	524	3,095	1.10%	0.00%	1.72%	3,490	2,400	N.A.	4,330	2,400	N.A.
SR 17 on-ramp	Ramp	Outside	7,980	8,190	N.A.	3,894	4,553	19,462	4,002	4,526	19,621	0.11%	0.00%	0.03%	8,050	8,210	N.A.	8,230	8,210	N.A.
Fairmount Avenue off-ramp	Ramp	Outside	1,550	2,460	N.A.	682	1,125	4,392	646	967	4,012	0.00%	0.00%	0.00%	1,570	2,480	N.A.	1,570	2,480	N.A.
Fairmount Avenue on-ramp	Ramp	Outside	1,100	600	N.A.	423	810	2,990	545	1,172	4,595	1.02%	1.49%	1.99%	1,190	670	N.A.	1,450	900	N.A.
Morrissey Boulevard on-ramp	Ramp	Outside	1,900	1,380	N.A.	1,464	2,084	9,852	1,640	2,403	11,020	0.46%	0.57%	0.41%	1,970	1,450	N.A.	2,150	1,620	N.A.
Soquel Avenue off-ramp	Ramp	Outside	4,550	6,180	N.A.	1,317	1,804	7,880	1,447	1,718	7,906	0.38%	0.00%	0.00%	4,670	6,200	N.A.	5,030	6,200	N.A.
Soquel Avenue on-ramp	Ramp	Outside	2,950	2,580	N.A.	1,303	1,800	7,179	1,402	1,826	7,362	0.29%	0.06%	0.06%	3,020	2,610	N.A.	3,200	2,630	N.A.
Soquel Avenue on-ramp to 41st Avenue off-ramp	Mainline	Outside	19,970	19,670	N.A.										20,650	20,300	N.A.	23,120	22,500	N.A.
41st Avenue off-ramp	Ramp	Outside	3,680	4,160	N.A.	1,330	1,148	6,452	1,319	1,294	6,852	0.00%	0.48%	0.26%	3,700	4,300	N.A.	3,700	4,730	N.A.
southbound 41st Avenue on-ramp	Ramp	Outside	1,180	1,580	N.A.	370	319	1,394	436	435	1,965	0.66%	1.24%	1.78%	1,250	1,720	N.A.	1,410	2,200	N.A.
northbound 41st Avenue on-ramp	Ramp	Outside	3,270	5,520	N.A.	1,838	2,247	9,984	1,893	2,422	10,605	0.12%	0.30%	0.26%	3,310	5,640	N.A.	3,390	5,980	N.A.
41st Avenue on-ramp to Bay Avenue / Porter Street off-ramp	Mainline	Outside	20,740	22,610	59,600										21,510	23,350	61,700	24,220	25,950	69,100
Bay Avenue/Porter Street off-ramp	Ramp	Outside	3,550	4,400	10,900	1,953	2,595	10,768	2,057	2,772	11,387	0.21%	0.27%	0.21%	3,610	4,480	11,100	3,760	4,730	11,700
Bay Avenue/Porter Street off-on Ramps	Mainline	Outside	17,190	18,220	48,700										17,900	18,870	50,600	20,460	21,230	57,500
Bay Avenue/Porter Street on-ramp	Ramp	Outside	2,040	3,210	6,700	689	729	3,748	772	807	3,930	0.45%	0.40%	0.04%	2,100	3,300	6,900	2,300	3,570	7,400
Bay Avenue/Porter Street on-ramp to Park Avenue off-ramp	Mainline	Outside	19,220	21,420	55,400										20,000	22,170	57,500	22,760	24,800	64,800
Park Avenue off-ramp	Ramp	Outside	3,770	2,870	8,900	1,183	930	5,109	1,332	1,085	5,515	0.48%	0.61%	0.13%	3,890	2,990	9,200	4,270	3,380	10,100
Park Avenue off-on Ramps	Mainline	Outside	15,460	18,560	46,500										16,120	19,180	48,300	18,490	21,420	54,800
Park Avenue on-ramp	Ramp	Outside	1,660	3,030	6,000	764	1,079	4,909	1,032	1,337	5,773	1.21%	0.86%	0.42%	1,800	3,200	6,400	2,280	3,800	7,600
Park Avenue on-ramp to State Park Drive off-ramp	**Mainline**	**Inside**	**17,120**	**21,580**	**52,500**	**7,167**	**10,359**	**42,408**	**8,624**	**12,025**	**49,865**	**0.74%**	**0.60%**	**0.64%**	**17,910**	**22,380**	**54,700**	**20,760**	**25,220**	**62,400**
State Park Drive off-ramp	**Ramp**	**Inside**	**2,790**	**3,360**	**8,900**	**1,005**	**1,422**	**6,833**	**1,123**	**1,637**	**7,002**	**0.45%**	**0.56%**	**0.00%**	**2,880**	**3,490**	**9,200**	**3,140**	**3,900**	**9,900**
State Park Drive off-on Ramps	**Mainline**	**Inside**	**14,330**	**18,230**	**43,600**										**15,040**	**18,900**	**45,600**	**17,630**	**21,320**	**52,600**
State Park Drive southbound on-ramp	**Ramp**	**Inside**	**1,580**	**2,620**	**5,700**	**738**	**1,548**	**5,852**	**766**	**1,791**	**5,793**	**0.15%**	**0.58%**	**0.00%**	**1,600**	**2,720**	**5,900**	**1,650**	**3,050**	**6,300**
State Park Drive on-on Ramps	**Mainline**	**Inside**	**15,910**	**20,840**	**49,300**										**16,630**	**21,620**	**51,400**	**19,270**	**24,370**	**58,800**
State Park Drive northbound on-ramp	**Ramp**	**Inside**	**720**	**880**	**2,100**	**738**	**1,548**	**5,852**	**766**	**1,791**	**5,793**	**0.15%**	**0.58%**	**0.00%**	**740**	**920**	**2,200**	**770**	**1,030**	**2,400**
State Park Drive northbound on-ramp to Rio Del Mar Boulevard off-ramp	**Mainline**	**Inside**	**16,620**	**21,720**	**51,400**										**17,370**	**22,530**	**53,600**	**20,030**	**25,400**	**61,100**
Rio Del Mar Boulevard off-ramp	**Ramp**	**Inside**	**2,090**	**3,170**	**7,300**	**628**	**1,431**	**4,224**	**720**	**1,716**	**4,748**	**0.55%**	**0.73%**	**0.26%**	**2,170**	**3,320**	**7,600**	**2,420**	**3,840**	**8,500**
Rio Del Mar Boulevard off-on Ramps	**Mainline**	**Inside**	**14,540**	**18,550**	**44,100**										**15,200**	**19,220**	**46,000**	**17,620**	**21,560**	**52,600**

Location	Type	Inside / Outside Project Limits?	Existing Year (2019) Volumes (vehicles)			AMBAG Model Base Year (2015) Volume (vehicles)			AMBAG Model Base Year (2040) Volume (vehicles)			AMBAG Model CAGR, 2015-2040			Opening Year (2025) Baseline Forecast Volumes (vehicles)			Horizon Year (2045) Baseline Forecast Volumes (vehicles)		
			AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Off-Peak Period	AM Peak Period	PM Peak Period	Daily Total	AM Peak Period	PM Peak Period	Daily Total
Rio Del Mar Boulevard on-ramp	Ramp	Inside	2,020	2,620	5,600	858	1,564	5,478	951	1,608	5,956	0.41%	0.11%	0.42%	2,080	2,650	5,800	2,260	2,700	6,100
Rio Del Mar Boulevard on-ramp - Freedom Boulevard off-ramp	Mainline	Inside	16,550	21,160	49,700										17,280	21,860	51,700	19,870	24,260	58,700
Freedom Boulevard off-ramp	Ramp	Inside	2,190	3,870	8,100	502	1,134	3,792	572	1,159	3,812	0.52%	0.09%	0.00%	2,270	3,910	8,300	2,520	3,980	8,600
Freedom Boulevard off – on Ramps	Mainline	Inside	14,360	17,290	41,600										15,010	17,960	43,500	17,360	20,290	50,100
Freedom Boulevard on-ramp	Ramp	Inside	790	840	2,100	347	1,228	2,404	351	1,588	2,828	0.05%	1.03%	0.28%	810	910	2,200	810	1,110	2,400
Freedom Boulevard on-ramp to San Andreas Road off-ramp	Mainline	Inside	15,150	18,130	43,700										15,810	18,860	45,600	18,160	21,400	52,500
San Andreas Road off-ramp	Ramp	Outside	1,300	2,160	3,500	560	938	3,816	639	1,035	4,229	0.53%	0.39%	0.39%	1,360	2,230	3,600	1,510	2,400	4,000
San Andreas on-ramp	Ramp	Outside	640	570	N.A.	494	575	2,882	522	629	3,118	0.21%	0.36%	0.33%	670	600	N.A.	690	640	N.A.
S/O San Andreas on-ramp	Mainline	Outside	14,490	16,540	N.A.										15,110	17,230	N.A.	17,350	19,630	N.A.
Mainline Average		**Inside**	**15,580**	**19,690**	**47,000**										**16,290**	**20,420**	**49,100**	**18,840**	**22,980**	**56,100**
On-Ramps Total		**Inside**	**5,110**	**6,960**	**15,500**										**5,230**	**7,200**	**16,100**	**5,490**	**7,890**	**17,200**
Off-Ramps Total		**Inside**	**7,070**	**10,400**	**24,300**										**7,320**	**10,720**	**25,100**	**8,080**	**11,720**	**27,000**

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CDM Smith's Traffic Analysis.

Notes: Traffic operations analysis was performed for AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm. On the other hand, the AMBAG Travel Demand Model uses AM Period: 6 am to 9 am; PM Period: 4 pm to 7 pm. Hence, these volume totals are not comparable. The volume totals are shown for information purposes only. No adjustments were made to the Existing (2019) No Build volumes were made based on the AMBAG Model. Compound Annualized Growth Rates (CAGR) in traffic by time period were applied to Existing Year (2019) No Build hourly total volumes and aggregated to time period total and rounded up to the nearest ten vehicles, and aggregated to daily totals and rounded up to the nearest 100 vehicles. Growth rate floor of zero percent was used for all CAGRs.

NUMBER	Forecast volumes in the AMBAG Travel Demand Model for relatively high growth Ocean on- and Fairmont on-ramps in the AM period were adjusted from the original values of 426 and 784 to 290 and 545, respectively, in order to keep the AM volume growth on SR 1 Mainline North of Ocean on-ramp at the same level as the PM volume growth.

A.3 Induced Demand Estimation due to Addition of Auxiliary Lanes

Similar to the SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR, this study estimated the induced demand due to the capacity increase in both northbound and southbound directions related to the addition of the auxiliary lanes by scaling the induced traffic volume impacts of auxiliary lanes identified under the Tier I EIR/EA TSM Alternative[40,41] on the basis of auxiliary lane-miles added. The estimation methodology for the induced traffic volume impacts of the Tier I auxiliary lanes was documented in the CDM Smith memorandum to SCCRTC titled "Highway 1 Widening/HOV Lane Project – Estimation of Induced Traffic Demand and Congestion-Related Costs" dated August 16, 2017. In this memorandum, the induced demand was estimated as follows:

- 1,000 lane-miles and 2.99 million vehicle-miles in the transportation corridor for Tier I auxiliary lanes project from AMBAG Model used in the 2012 traffic operations report (TOR) for Tier I EIR/EA;
- Demand elasticity[42] value of 0.39 estimated by Robert Cervero's research over 24 California freeway projects across 15 years;
- Capacity adjustment factor of 0.50; and
- Formulae: (a) % VMT Increase = % Lane-miles Increase x Demand Elasticity x Capacity Adjustment Factor = (15/1,000) x 0.39 x 0.50 = 0.29%; (b) VMT increase = 0.29% x 2.99 million vehicle-miles = 8,700 vehicle-miles

This study scaled the vehicle-miles to the Project (P3) auxiliary lane project and the background auxiliary lane projects (P1 and P2) with auxiliary lane-miles as follows – P1: 1.8 miles, P2: 4.0 miles and P3: 3.0 miles (in both directions of SR 1 combined). The induced vehicle-miles were distributed among the mainline and ramps to estimate volumes within the Project Limits. This was done using a FRATAR method to develop origin-destination pattern volumes. The mainline volumes at the edge of the Project Limits were continued till the ends of the Traffic Modeling Limits. Based on **Table 1-1**, the induced demand estimates of the different auxiliary lane projects were combined to estimate the total induced demand for each Project scenario.

However, during the analysis for this study, the peak direction of northbound AM was found to show no improvements in the mainline average speed or travel times due to the Project. Similar to the other analysis directions and time periods (northbound PM, southbound AM and southbound PM), qualitatively speaking, in the northbound AM the speeds of vehicles merging from on-ramps and the vehicles weaving to off-ramps would smoothen and their operations and safety would improve due to the lengthening of merge/weave sections compared to the No Build scenario. The lack of improvement in the mainline average speed or travel times is attributed to the presence of a downstream bottleneck north of the Soquel Avenue interchange (outside the

[40] https://sccrtc.org/projects/streets-highways/hwy1corridor/environmental-documents/ (last accessed on August 5, 2020)
[41] Santa Cruz County Regional Transportation Commission (SCCRTC), State Route 1 HOV Lane Widening Project (from Morrissey Boulevard to San Andreas Road), Traffic Operations Report, April 2012.
[42] Elasticity = Percentage Change in VMT per Percent Change in Lane-Miles

limits of both the Project and the background auxiliary lane projects) and its strong effects on the vehicle throughput and queuing in the northbound direction under both No Build and Build conditions. Due to this reason, the induced demand for the northbound AM peak period was assumed as zero.

Table A-6 shows the induced demand due to addition of auxiliary lanes under the Existing (2019) Plus Build, Opening Year (2025) No Build and Build and Horizon Year (2045) No Build and Build scenarios.

Table A-6 Induced Demand (in vehicles) due to Addition of Auxiliary Lanes, No Build and Build Conditions

Scenario	Year	Analysis Duration	Bi-Directional Total Induced Vehicle-Miles in Auxiliary Lane Project Limits	Induced Mainline Average Volume (vehicles)		% of Mainline Average Traffic Volume (without Auxiliary Lanes)	
				SR 1 northbound	SR 1 southbound	SR 1 northbound	SR 1 southbound
No Build	2019	AM Peak Period	N.A.	0	0	0.00%	0.00%
		PM Peak Period	N.A.	0	0	0.00%	0.00%
		Daily	0	0	0	0.00%	0.00%
	2025	AM Peak Period	N.A.	0	270	1.64%	1.66%
		PM Peak Period	N.A.	230	330	1.56%	1.62%
		Daily	3,180	770	810	1.55%	1.65%
	2045	AM Peak Period	N.A.	0	320	1.59%	1.70%
		PM Peak Period	N.A.	270	370	1.60%	1.61%
		Daily	3,590	880	910	1.57%	1.62%
Build	2019	AM Peak Period	N.A.	0	120	0.69%	0.77%
		PM Peak Period	N.A.	100	150	0.70%	0.76%
		Daily	1,570	330	360	0.69%	0.77%
	2025	AM Peak Period	N.A.	0	400	2.35%	2.46%
		PM Peak Period	N.A.	340	490	2.30%	2.40%
		Daily	4,820	1110	1180	2.24%	2.40%
	2045	AM Peak Period	N.A.	0	470	2.32%	2.49%
		PM Peak Period	N.A.	390	550	2.31%	2.39%
		Daily	5,450	1,270	1,330	2.27%	2.37%
Difference - Build minus No Build	2019	AM Peak Period	N.A.	0	120	0.69%	0.77%
		PM Peak Period	N.A.	100	150	0.70%	0.76%
		Daily	1,570	330	360	0.69%	0.77%
	2025	AM Peak Period	N.A.	0	130	0.72%	0.80%
		PM Peak Period	N.A.	110	160	0.75%	0.78%
		Daily	1,640	340	370	0.69%	0.75%
	2045	AM Peak Period	N.A.	0	150	0.73%	0.80%
		PM Peak Period	N.A.	120	180	0.71%	0.78%
		Daily	1,860	390	420	0.70%	0.75%

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CDM Smith's Traffic Analysis.

Note: AM peak period: 6 am to 12 pm; PM peak period: 2 pm to 8 pm. No Build and Build conditions in 2025 and 2045 and include 1.8 lane-miles of auxiliary lanes on SR 1 between Soquel Drive/Avenue interchange and 41st Avenue interchange (one lane in each direction) and 4 lane-miles of auxiliary lanes on SR 1 between Bay Avenue/Porter Street interchange and State Park Drive interchange (one lane in each direction). Build conditions in 2019, 2025 and 2045 include will also 3 lane-miles of the Project auxiliary lanes on SR 1 between State Park Drive interchange and Freedom Boulevard interchange (one lane in each direction).

0	The analysis used induced demand in northbound AM peak period as zero due to lack of improvement in travel times.

A.4 Mode Shift Estimation due to Bus on Shoulder Operations

Similar to the SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR, the growth in bus ridership on SR 1 was estimated based on the methodology used for the Monterey-Salinas Transit, Monterey Bay Area Feasibility Study of Bus on Shoulder Operations on State Route 1 and the Monterey Branch Line, June 26, 2018 (or the "BOS feasibility study"). As done in the prior TOAR, this study accounted for the bus user's perspective by using an end-to-end (Santa Cruz to Watsonville) bus travel time savings instead of the travel time savings between transit stops near the Project Limits (as was done in the BOS feasibility study). It is further noted that the express BOS service was not considered under the No Build conditions, and the ridership estimation is based on the travel time savings between the No Build and Build conditions as defined in this study (see **Section 3** of the report).

The bus ridership estimate by Project scenario was made using the following formula:

New Ridership = *Base Ridership* x (1+ *Population/Employment Growth Factor*) x (1+ 0.6 x (*Travel Time Savings Factor*)) x (1+ *Service Frequency Increase Factor*) x (1+ *Service Reliability Factor*)

The ridership parameters came from the following sources: 2017 ridership counts, the end-to-end rider share, service frequency increase factor and service reliability factor assumptions from the BOS feasibility study, 91X bus route schedule (total travel time) from the Santa Cruz Metro website, population/employment growth factors from the 2018 AMBAG Regional Growth Forecast, and travel time savings factors by Project scenario from a multi-step methodology in line with the prior TOAR. The travel time savings factor estimation involves: (1) assumptions on the proposed bus service with the Project - express type service and direct freeway route for the end-to-end users over defined hours of service and service frequency by Project scenario; (2) assumptions on the expansion factor from the available ridership counts in the peak direction to total demand in both peak and non-peak directions, which was done using the Existing (2019) peak period directional distribution (D) factors; (3) assumption that there is no change in non-freeway average travel speed, however, the distance of travel on non-freeway facilities is reduced due to the improved route directness; (4) freeway travel time savings calculations using an traffic operations analysis (see next paragraph for more detail) in this study using the volume and capacity changes due to the Project and background auxiliary lane projects; and (5) bus travel speed adjustments based on two rules: (a) the maximum travel speed of bus on mainline = 60 mph; and (b) for SR 1 segments where the bus would use the shoulder (and not on auxiliary lanes) and the mainline speed falls below 35 mph, the bus on shoulder (BOS) speed would be the minimum of 35 mph and 10 mph over the mainline speed.

The transit analysis (ridership estimation) was developed using an iterative feedback loop in the traffic operations analysis. The change in bus ridership between the Existing (2019) and the Project scenarios was converted to vehicles avoided (trips diverted to transit) on SR 1 using the bus services and bus service frequency assumptions and average the vehicle occupancy (AVO) assumption for vehicles used in the traffic operations models used in this study. The volumes based on the "interim" traffic operations analysis after adjustments for the auto to bus mode shift were used in making the "final" traffic operations analysis.

Table A-7 through **Table A-9** show the input parameters for BOS ridership estimation in 2025 and 2045.

Table A-7 Population/Employment Growth Factors for Santa Cruz-Watsonville Corridor due to Express BOS Service, No Build and Build Conditions

Trip Type	Geography / Demographic Characteristic	2015	2020	2040	Estimated 2017-2025	Estimated 2017-2045
Watsonville to Santa Cruz Trips	Watsonville Population	52,562	53,536	59,743	6.6%	20.5%
	Santa Cruz Employment	40,986	43,090	49,085	4.0%	15.6%
	Growth Factor				**5.3%**	**18.0%**
Santa Cruz to Watsonville	Santa Cruz Population	63,830	68,381	82,266	9.4%	29.7%
	Watsonville Employment	22,644	23,482	26,772	5.7%	19.7%
	TOTAL				**7.5%**	**24.7%**

Source: 2018 AMBAG Regional Growth Forecast.

Table A-8 Travel Time Saving Factors for Santa Cruz-Watsonville Corridor due to Express BOS Service, No Build and Build Conditions

Scenario	Trip Type	Portion of Corridor	Bus Travel Distance (miles)	Bus Average Travel Time (minutes)		
				2019	2025	2045
No Build	Watsonville to Santa Cruz (northbound) AM Period	Freeway	9.5	13	14	22
		Non-Freeway	9.1	47	47	47
		TOTAL	**18.6**	**60**	**61**	**68**
	Santa Cruz to Watsonville (southbound) PM Period	Freeway	11.3	18	17	24
		Non-Freeway	6.9	36	36	36
		TOTAL	**18.2**	**54**	**53**	**60**
	Santa Cruz to Watsonville (southbound) AM Period	Freeway	11.3	11	11	12
		Non-Freeway	6.9	26	26	26
		TOTAL	**18.2**	**37**	**37**	**37**
	Watsonville to Santa Cruz (northbound) PM Period	Freeway	9.5	9	9	10
		Non-Freeway	9.1	46	46	46
		TOTAL	**18.6**	**55**	**55**	**55**
"Interim" Build	Watsonville to Santa Cruz (northbound) AM Period	Freeway	12.8	**18**	**24**	**34**
		Non-Freeway	4.5	**23**	**23**	**23**
		TOTAL	**17.3**	**41**	**46**	**57**
	Santa Cruz to Watsonville (southbound) PM Period	Freeway	13.1	**20**	**13**	**23**
		Non-Freeway	4.2	**22**	**22**	**22**
		TOTAL	**17.3**	**42**	**35**	**45**
	Santa Cruz to Watsonville (southbound) AM Period	Freeway	13.1	**13**	**13**	**13**
		Non-Freeway	4.2	**16**	**16**	**16**
		TOTAL	**17.3**	**29**	**29**	**29**
	Watsonville to Santa Cruz (northbound) PM Period	Freeway	12.8	**13**	**13**	**13**
		Non-Freeway	4.5	**22**	**22**	**22**
		TOTAL	**17.3**	**35**	**35**	**36**
Reduction (% Reduction) – "Interim" Build over 2019 No Build	Watsonville to Santa Cruz (northbound) AM Period	**TOTAL**	**1.3 (7%)**	**18 (31%)**	**13 (22%)**	**3 (5%)**
	Santa Cruz to Watsonville (southbound) PM Period	**TOTAL**	**0.9 (5%)**	**12 (22%)**	**19 (34%)**	**9 (17%)**
	Santa Cruz to Watsonville (southbound) AM Period	**TOTAL**	**0.9 (5%)**	**8 (22%)**	**8 (22%)**	**8 (22%)**
	Watsonville to Santa Cruz (northbound) PM Period	**TOTAL**	**1.3 (7%)**	**20 (36%)**	**20 (36%)**	**19 (35%)**

Source: Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Traffic Analysis.

Note: "Interim" Build refers to adding auxiliary lanes only as opposed to "Full" or "Final" Build that refers to adding auxiliary lanes and express BOS service.

Legend:	2025 NB AM peak period end-to-end bus travel times	2025 SB PM peak period end-to-end bus travel times

Table A-9 Service Frequency Increase Factors for Santa Cruz-Watsonville Corridor due to Express BOS Service, No Build versus Build Conditions

Trip Type	Time Period	Bus Service Frequency (Number of Buses)			2019-2025 % Increase	2019-2045 % Increase
		2019 No Build	2025 Build	2045 Build		
Watsonville to Santa Cruz (northbound)	6 AM – 10 AM	7	8	16	**14%**	**129%**
Santa Cruz to Watsonville (southbound)	3 PM – 7 PM	7	8	16	**14%**	**129%**
Santa Cruz to Watsonville (southbound)	6 AM – 10 AM	5	6	12	**20%**	**140%**
Watsonville to Santa Cruz (northbound)	3 PM – 7 PM	4	6	12	**50%**	**200%**

Source: CDM Smith's Assumptions based on a Review of the Monterey-Salinas Transit, Monterey Bay Area Feasibility Study of Bus on Shoulder Operations on State Route 1 and the Monterey Branch Line, June 26, 2018.

Table A-10 shows the estimated bus ridership and vehicles avoided due to increase in bus operations under the Existing (2019) Plus Build, Opening Year (2025) Build and Horizon Year (2045) Build scenarios. The large increase in ridership between 2025 and 2045 is associated with two of the four ridership demand factors. The population/employment growth factors in 2025 are in the range of 5-8% while that in 2045 are in the range of 18-25%. The service frequency in 2025 is assumed as two bus per hour, while in 2045 it doubles to four buses per hour. Due to increase in travel between 2025 and 2045, the remaining two factors of travel time saving factors and service reliability factors in 2045 are lower or the same as in 2025.

Table A-10 Bus Ridership and Vehicles Avoided due to Express BOS Service, 2019, 2025 and 2045 Build Conditions

Trip Type	Time Period	Ridership (Number of Persons)						Net Vehicles Avoided		
		Existing (2019)	Existing (2019) Plus Build	Opening Year (2025) No Build	Opening Year (2025) Build	Horizon Year (2045) No Build	Horizon Year (2045) Build	Existing (2019) Plus Build	Opening Year (2025) Build	Horizon Year (2045) Build
Watsonville to Santa Cruz (northbound)	6 AM – 10 AM	66	90	70	105	75	220	21	31	120
Santa Cruz to Watsonville (southbound)	3 PM – 7 PM	52	65	55	95	65	220	11	32	117
Santa Cruz to Watsonville (southbound)	6 AM – 10 AM	52	65	55	95	65	220	12	34	126
Watsonville to Santa Cruz (northbound)	3 PM – 7 PM	66	90	70	105	75	220	20	30	115
TOTAL		**235**	**310**	**250**	**400**	**280**	**880**	**64**	**127**	**478**

Source: Monterey-Salinas Transit, Monterey Bay Area Feasibility Study of Bus on Shoulder Operations on State Route 1 and the Monterey Branch Line, June 26, 2018, 2018 AMBAG Regional Growth Forecast, Santa Cruz Metro 91X Schedule, Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, FREQ Model, CDM Smith's Transit Analysis and Assumptions.

Note: Under the Opening Year (2025) Plus Build Scenario, the end-to-end travel time savings between the Santa Cruz Metro Center to the North and the Watsonville Transit Center to the south are expected to be 15 minutes in the northbound direction during the AM peak period and 18 minutes in the southbound direction during the PM peak period. Service frequency is expected to increase gradually from 30-minute headways to 15-minute headways between 2025 and 2045. Full analysis tables for BOS improvements can be found in the file mentioned in Section 2.3 of this report.

A.5 FREQ Model based Freeway Operational Analysis

Freeway operational analysis was performed using calibrated FREQ12 version 3.02 freeway traffic operations (macroscopic simulation based) models that were originally developed in a 2017 traffic study[43] and also used in the SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR, enhanced in the *Existing Conditions* memorandum for this study dated July 1, 2020 and subsequently updated on July 23, 2020. The 2017 traffic study calibrated the capacity by mainline segment in the traffic operations model, while this study made enhancements over the 2017 study and the prior TOAR – calibrating the Existing (2019) volumes to match the observed speeds and in the process identifying bottlenecks within and outside the Project Limits – as described in **Section A.1** of this report.

The directional capacities on the SR 1 mainline segments within the Project Limits and the limits of the background auxiliary lane projects were adjusted in the FREQ models from a range of 3,950-4,400 vehicles/hour to a range of 5,600-6,100 vehicles/hour due to construction of auxiliary lanes. Updates were made to AM and PM peak period traffic volume inputs under the Existing (2019) Plus Build and the future (2025 and 2045) No Build and Build conditions. "Interim" versions of the FREQ models with only auxiliary lane improvements were used to estimate the auto to bus mode shift due to increase in bus operations. "Final" versions of the FREQ models with both auxiliary lane and bus on shoulder improvements were used to evaluate the traffic operational performance under the Project scenarios in terms of average volumes served, vehicle miles traveled (VMT), vehicle hours traveled (VHT), vehicle hours of delay (VHT), density and freeway level of service (LOS)[44], average speed and delay per vehicle[45] within the Corridor Limits in the AM and PM peak hours and peak periods. The models were also used to generate a graphical output called a "condition diagram" to visualize the level of congestion under the Project scenarios.

Similar to the SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR, this study evaluated the traffic operations under the Project scenarios against the following criteria for all years:

- In an AM/PM peak period analysis, LOS D or better and average speed of 45 mph or higher was considered as a satisfactory operating condition.
- In an AM/PM peak hour analysis, LOS E or better and average speed of 35 mph or higher was considered as a satisfactory operating condition.
- While no threshold value is defined, changes in freeway VMT and VHT due to the Project are reported.

The raw outputs of the FREQ models in the AM and PM peak periods by direction of movement are included in **Appendix C**. A full set of freeway condition diagrams in the AM and PM peak periods by direction of movement is included in **Appendix D**. Detailed FREQ model results by Project scenario are included in **Appendix E**. The FREQ model (.FRQ) files for the northbound

[43] CDM Smith's memorandum to Caltrans District 5 titled "Santa Cruz Highway 1 Widening/HOV Lane Project – Final 2016/2017 Traffic Analysis Update" and dated July 14, 2017.
[44] As per the 2016 HCM, density-based freeway level of service (LOS) categories – A: < 11 passenger car per mile per lane (pcpmpl), B: 11-18 pcpmpl, C: 18-26 pcpmpl, D: 26-35 pcpmpl, E: 35-45 pcpmpl, and F: > 45 pcpmpl.
[45] Using free flow speed (FFS) as a threshold, which was calibrated as 62 mph for freeway segments.

AM, northbound PM, southbound AM and southbound PM analysis time periods by Project Scenario are provided to Caltrans along with this report.

The operational performance and freeway condition diagrams developed in this study were compared to that in the SR 1 (Bay Avenue/Porter Street to State Park Drive) TOAR. As expected, the newly identified bottleneck in this study along the SR 1 northbound direction north of Soquel interchange and downstream of the Project Limits played an influential role. The downstream bottleneck resulted in a worsening of the operational performance measures in the northbound AM peak direction under both No Build and Build conditions in this study compared to the prior TOAR. The changes in speeds and LOS in the northbound AM peak direction between the No Build and Build conditions were small in the prior TOAR, they became even smaller in this study as the Project's effectiveness in improving operational performance was reduced by the downstream bottleneck. The freeway conditions in the non-peak directions of northbound PM and southbound AM were similar between this study and the prior TOAR. Due to a small increase in the southbound PM peak direction volume and the relaxation of volume capping in auxiliary laned sections in this study, the vehicle throughput increased compared to the No Build conditions, Along with this, the freeway conditions in the southbound PM peak direction under the Build conditions in this study became slightly worse compared to the southern extension to Freedom Boulevard alternative studied in the prior TOAR.

A.6 Daily VMT, VHT and VHD Calculation

Vehicle-miles traveled (VMT) at the daily level within the Corridor Limits under the Project scenarios was estimated using the VMT estimates in AM and PM peak periods from the FREQ model outputs and scaling this to the daily level by using the ratios of daily traffic volume to the AM and PM peak periods combined traffic volume. Vehicle-hours traveled (VHT) at the daily level within the Corridor Limits, on the other hand, was computed using the sum of VHT in the AM and PM peak periods and estimated VHT in off-peak period using off-peak period volume estimate and travel time under a free flow speed in the traffic operations models (mostly 62 mph). Vehicle-hours of delay (VHD) at the daily level within the Corridor Limits was computed by using free flow speed in the traffic operations models (mostly 62 mph) as the speed threshold for defining a delay in the AM and PM peak periods. Daily VHD is simply the sum of VHD in the AM and PM peak periods. VHD in the off-peak periods was assumed as zero.

Daily VMT, VHT and VHD estimates by scenario are included in **Section 5.1.6**, **Section 6.1.6,** and **Section 7.1.6** of this report.

A.7 Historical (2010-2019) Collisions Data

Historical (January 2010 to December 2019) collisions data for SR 1 mainline segments and ramps within the Project Limits and adjacent segments were collected from the Caltrans Traffic Accident Surveillance and Analysis System (TASAS). For the adjacent segment of State Park Drive to Park Avenue, the data collected for the SR 1 Bay Avenue/Porter Street to State Park Drive Auxiliary Lanes and Bus on Shoulders Project TOAR was used.

Caltrans' Traffic Accident Surveillance and Analysis System (TASAS) raw safety data (*Table B* and *TASAS Selective Record Retrieval - TSAR* reports) and summaries using the historical collisions data in terms of severity, number of vehicles involved, primary collision factor and type of

collision on the mainline segments and ramps of SR 1 within the Project Limits and its adjacent upstream and downstream mainline segments are included in **Appendix F** and **Appendix G**, respectively.

A.8 2025 and 2045 No Build Collisions Estimation

For future (2025 and 2045) No Build scenarios, annual collisions before the Project under the future (2025 and 2045) No Build conditions were derived by applying ratios of the future (2025 and 2045) No Build volumes to the Existing (2019) volumes by roadway segment.

The results of the calculations based on this methodology are included in **Appendix G**.

A.9 Project related Collisions Reduction Estimation

A crash modification factor (CMF) of 0.79 for "adding auxiliary lanes" adopted from the FHWA's CMF clearing house[46] and a CMF of 0.9 for "education and enforcement" adopted from the SCCRTC's Solutions for Congested Corridors Program (SCCP) Grant Application for SR 1 Improvements Project. These CMFs were used to derive the collisions estimates under the Existing (2019) Plus Build, Opening Year (2025) Build and Horizon Year (2045) Build scenarios. While both CMFs were applied using an additive method to the mainline segments in the Project Limits with auxiliary lanes, only the CMF for education and enforcement was applied to the ramps and adjacent upstream and downstream mainline segments.

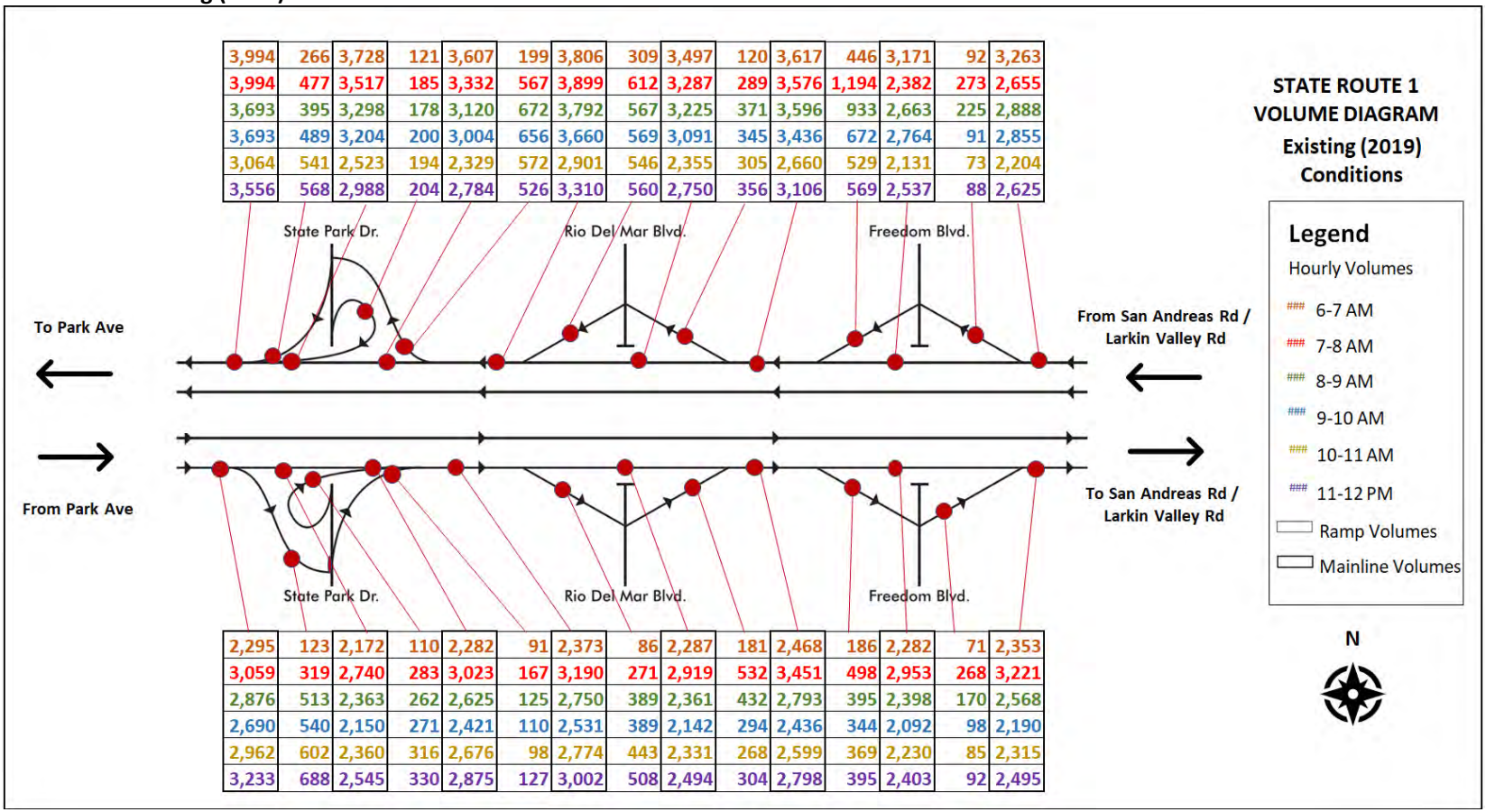
The results of the calculations based on this methodology are included in **Appendix G**.

[46] Ray et al. crash modification factor study for "Add continuous auxiliary lane for weaving between entrance ramp and exit ramp" type project, 2011. Available at: http://www.cmfclearinghouse.org/study_detail.cfm?stid=403 (last accessed on August 5, 2020)

Appendix B

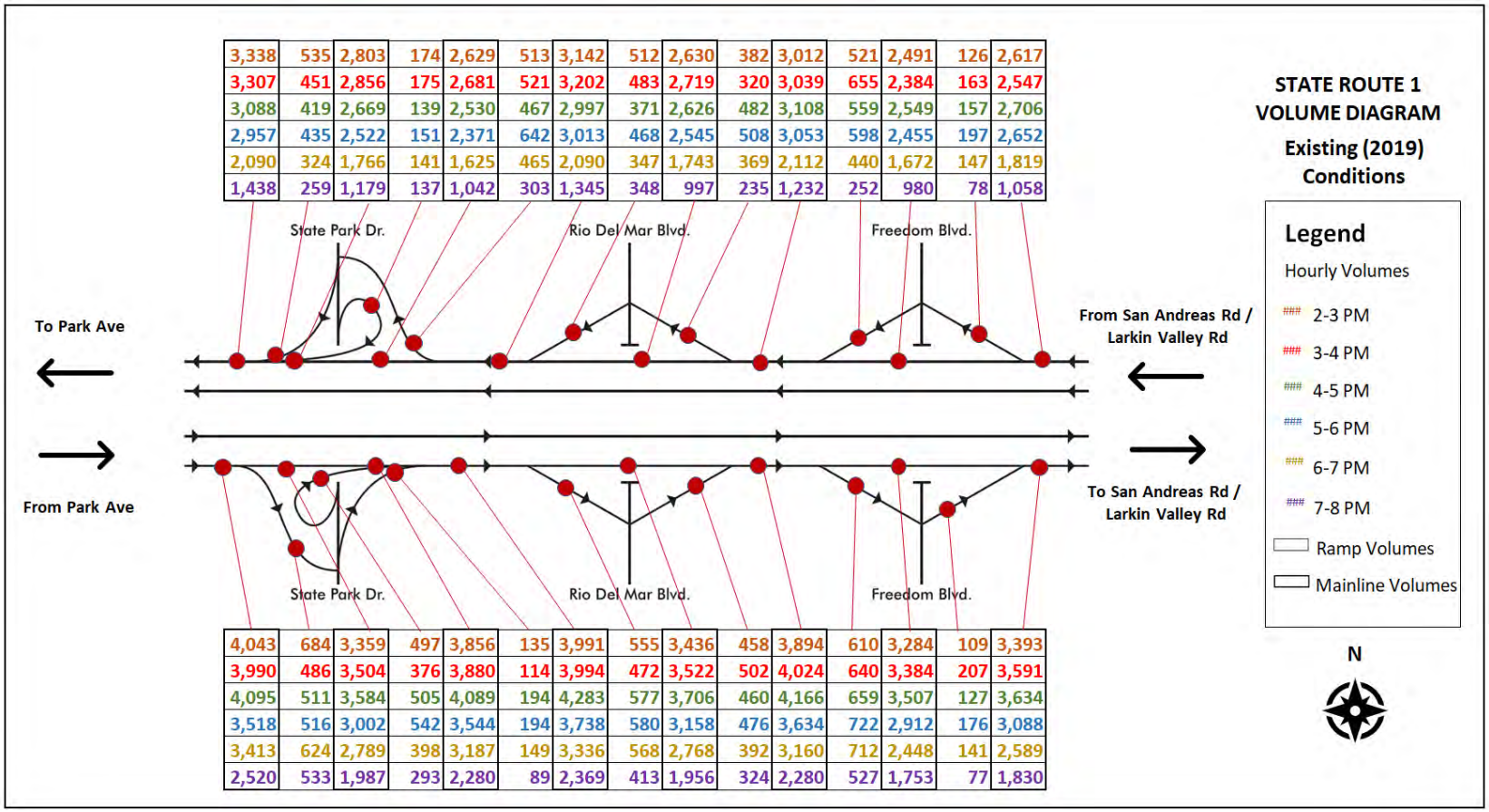
Estimated Volume Diagrams

Figure B-1 Estimated Weekday AM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Existing (2019) Conditions



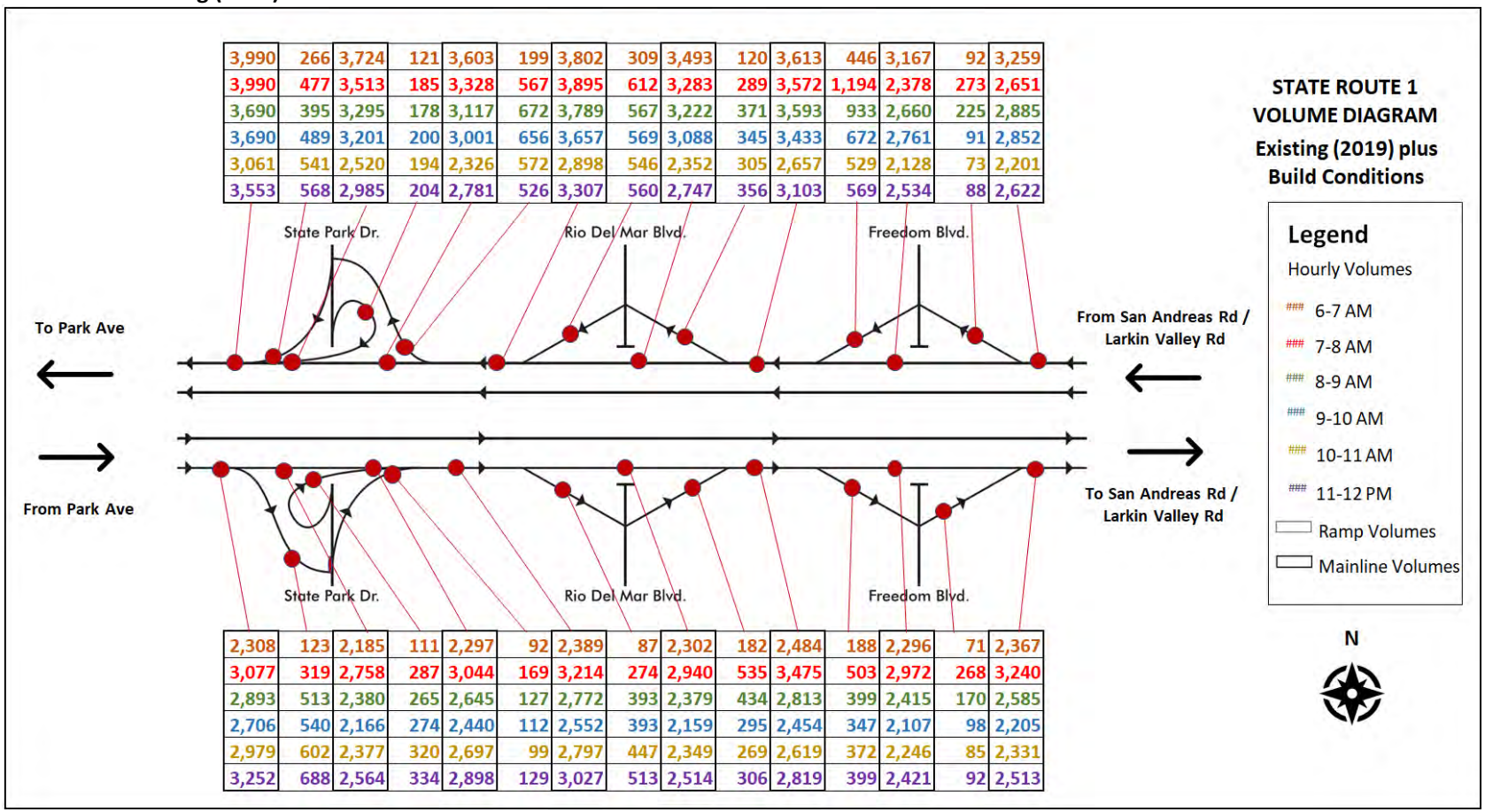
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; and CDM Smith's Model Calibration.

Figure B-2 Estimated Weekday PM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Existing (2019) Conditions



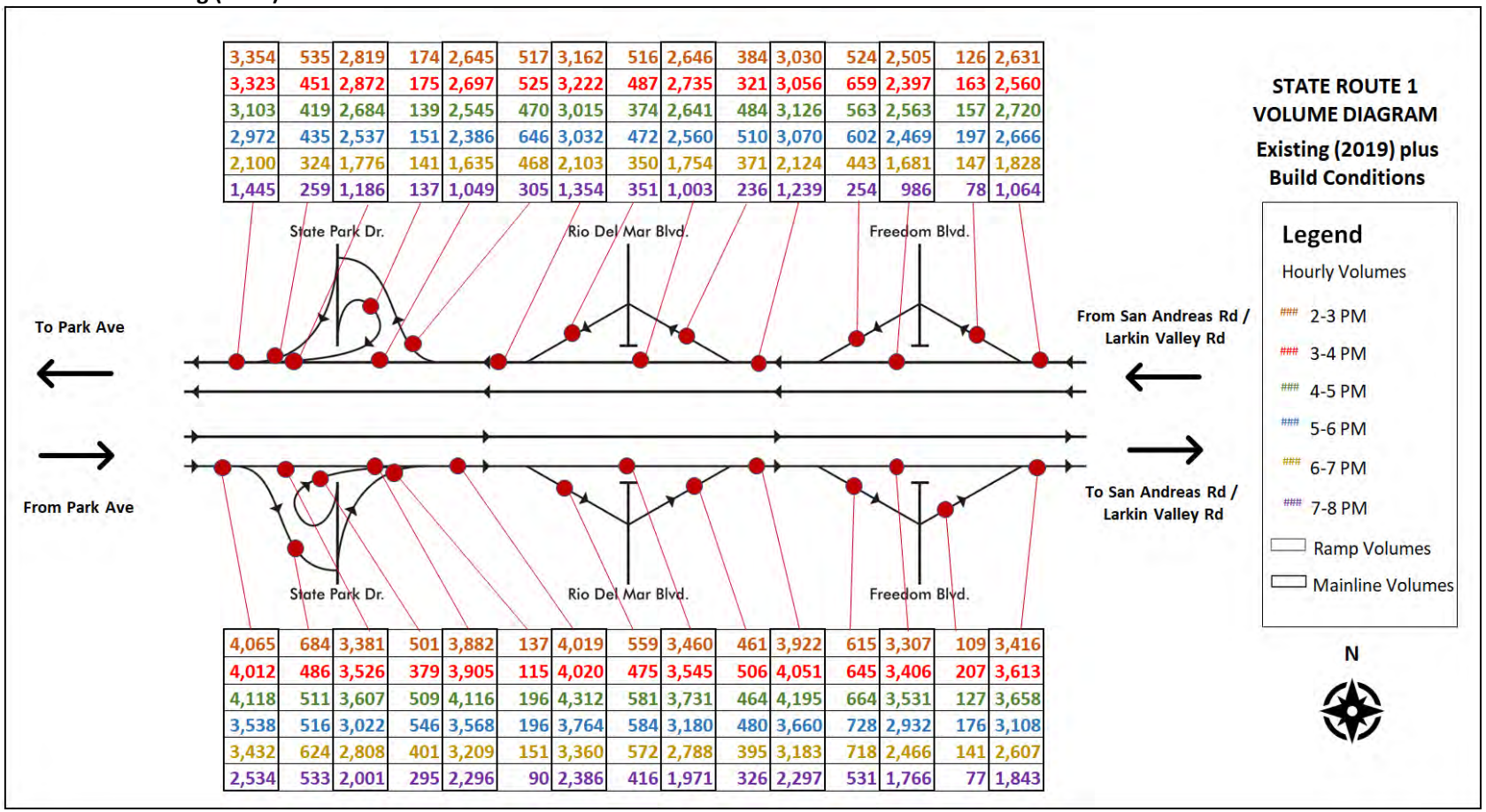
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; and CDM Smith's Model Calibration.

Figure B-3 Estimated Weekday AM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Existing (2019) Plus Build Conditions



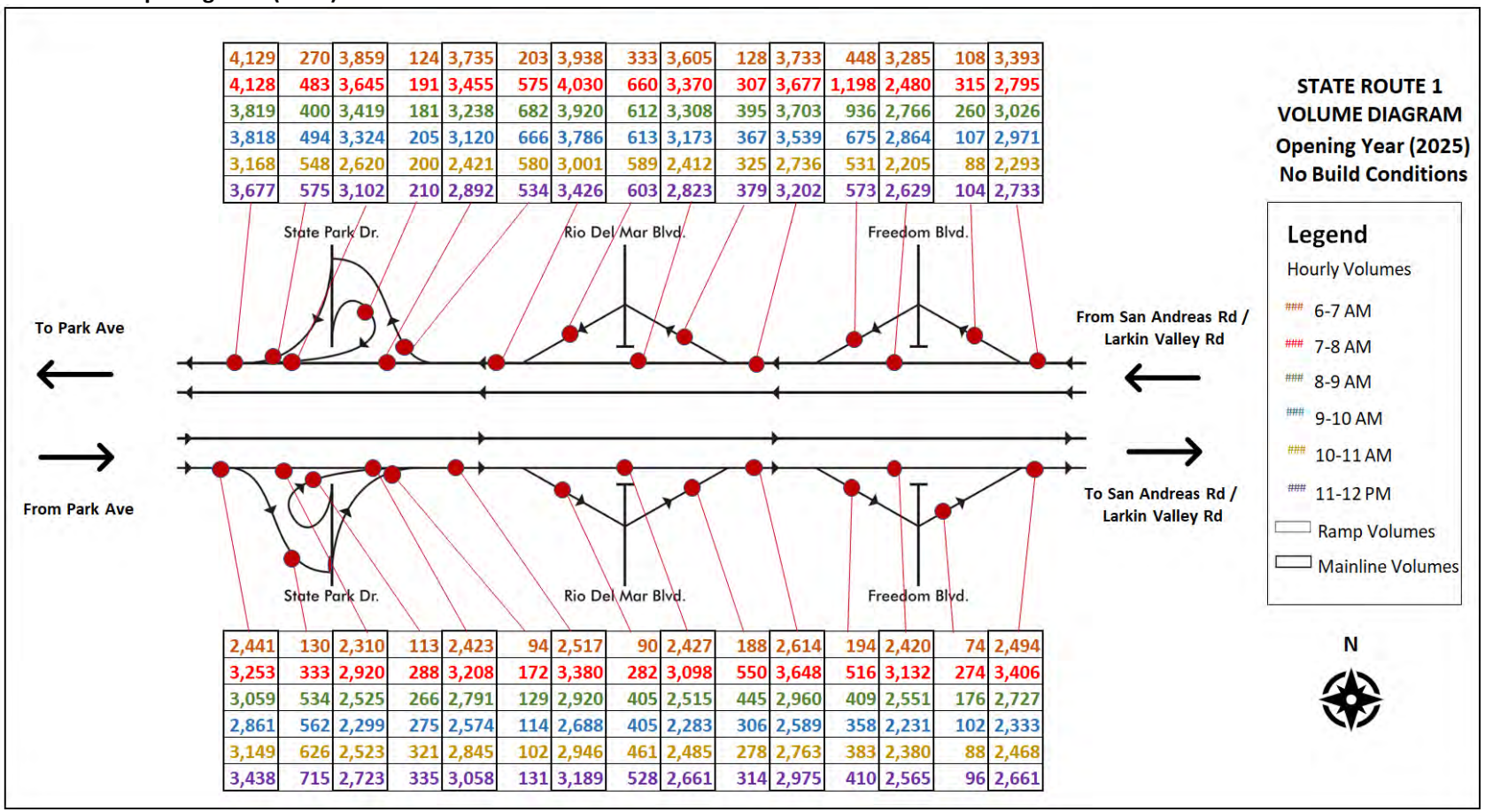
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Figure B-4 Estimated Weekday PM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Existing (2019) Plus Build Conditions



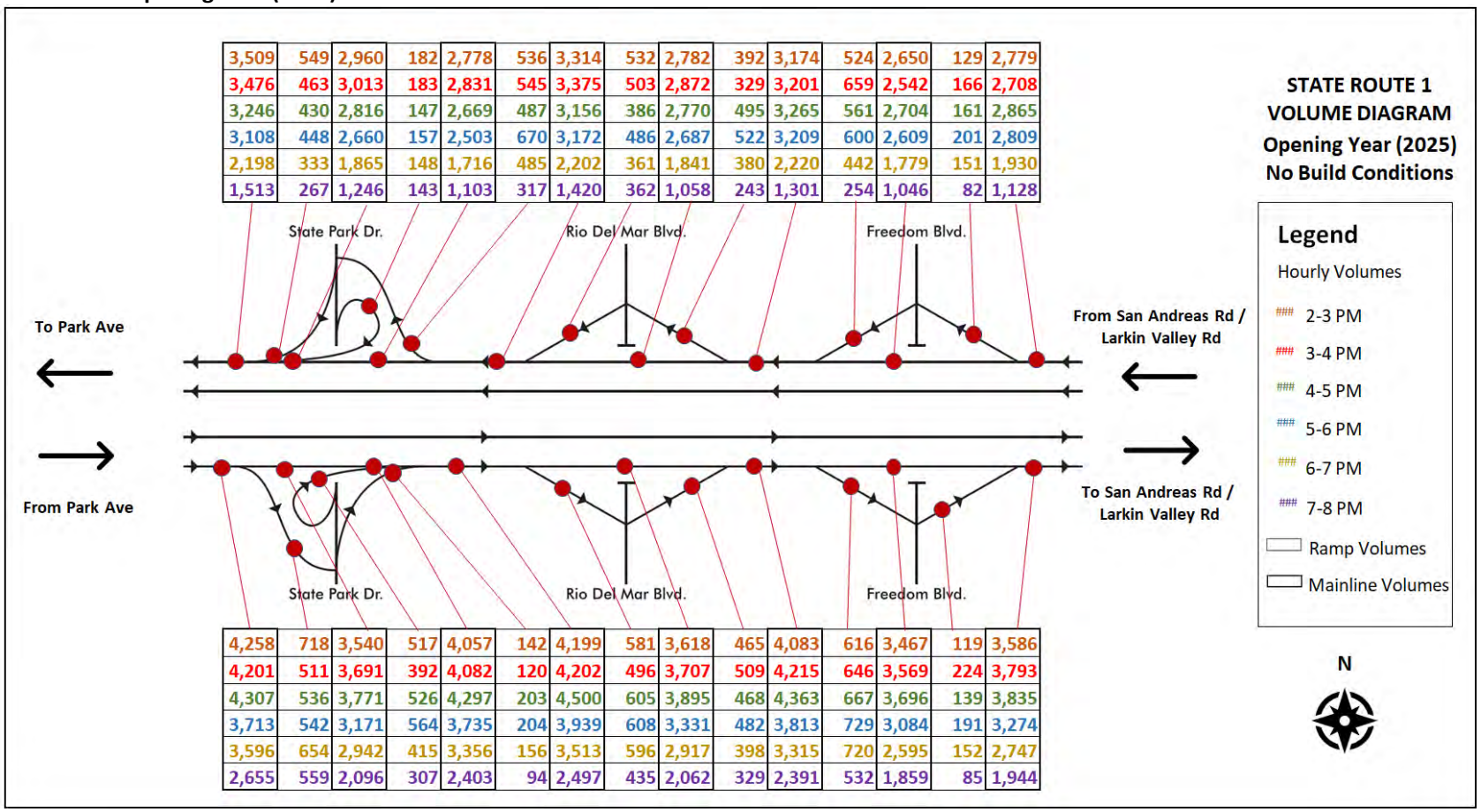
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Figure B-5 Estimated Weekday AM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Opening Year (2025) No Build Conditions



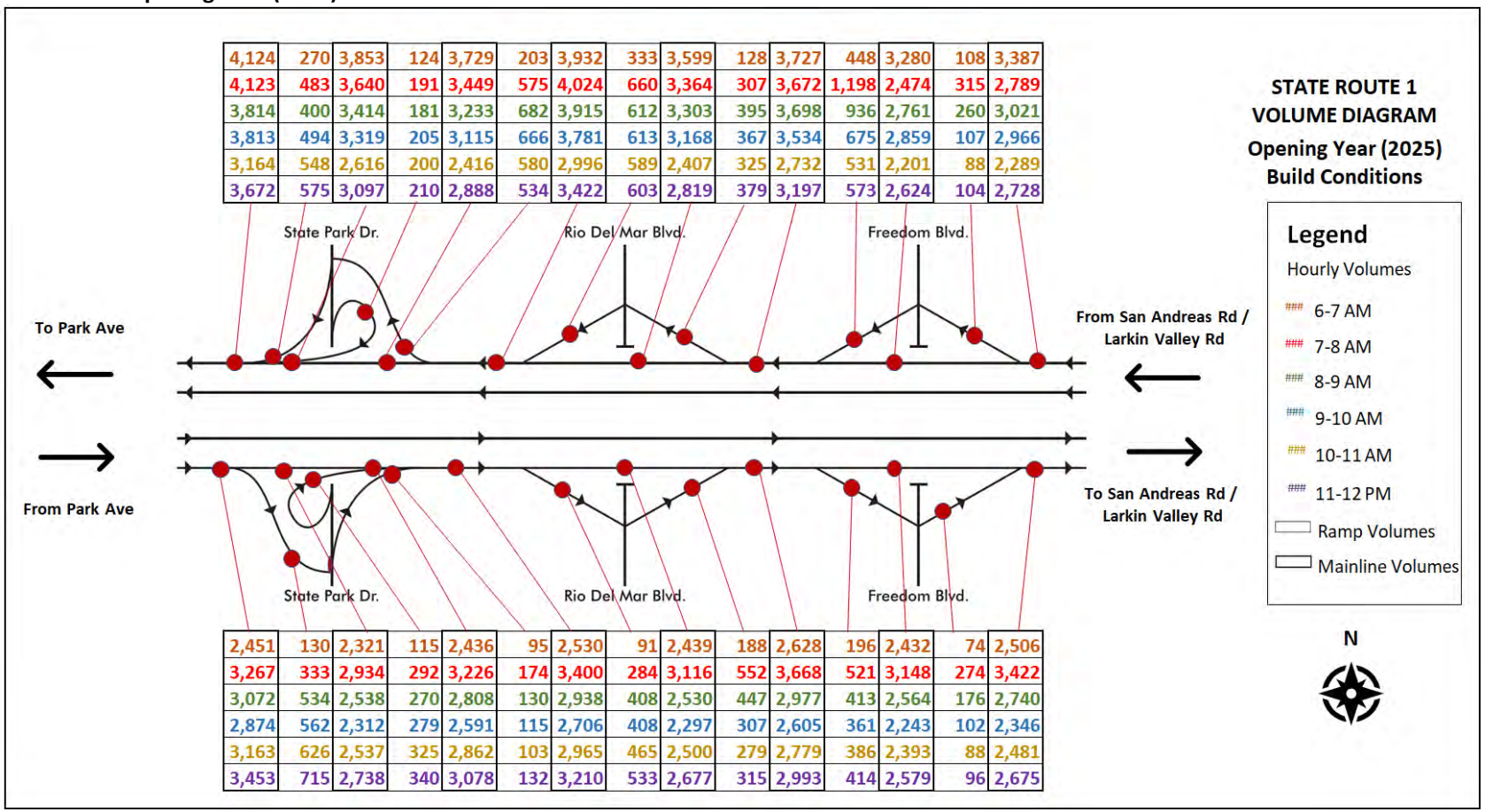
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Figure B-6 Estimated Weekday PM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Opening Year (2025) No Build Conditions



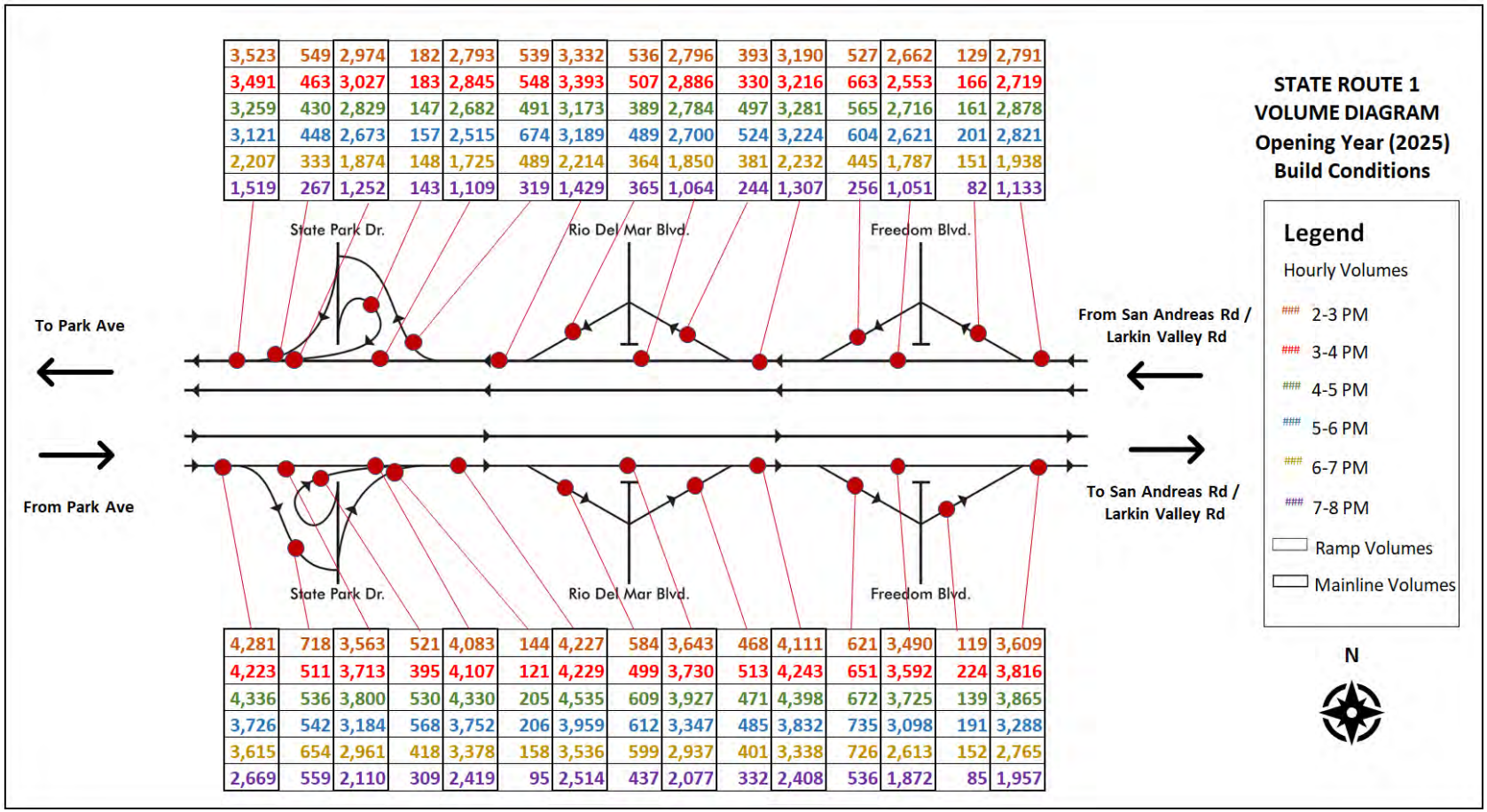
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Figure B-7 Estimated Weekday AM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Opening Year (2025) Build Conditions



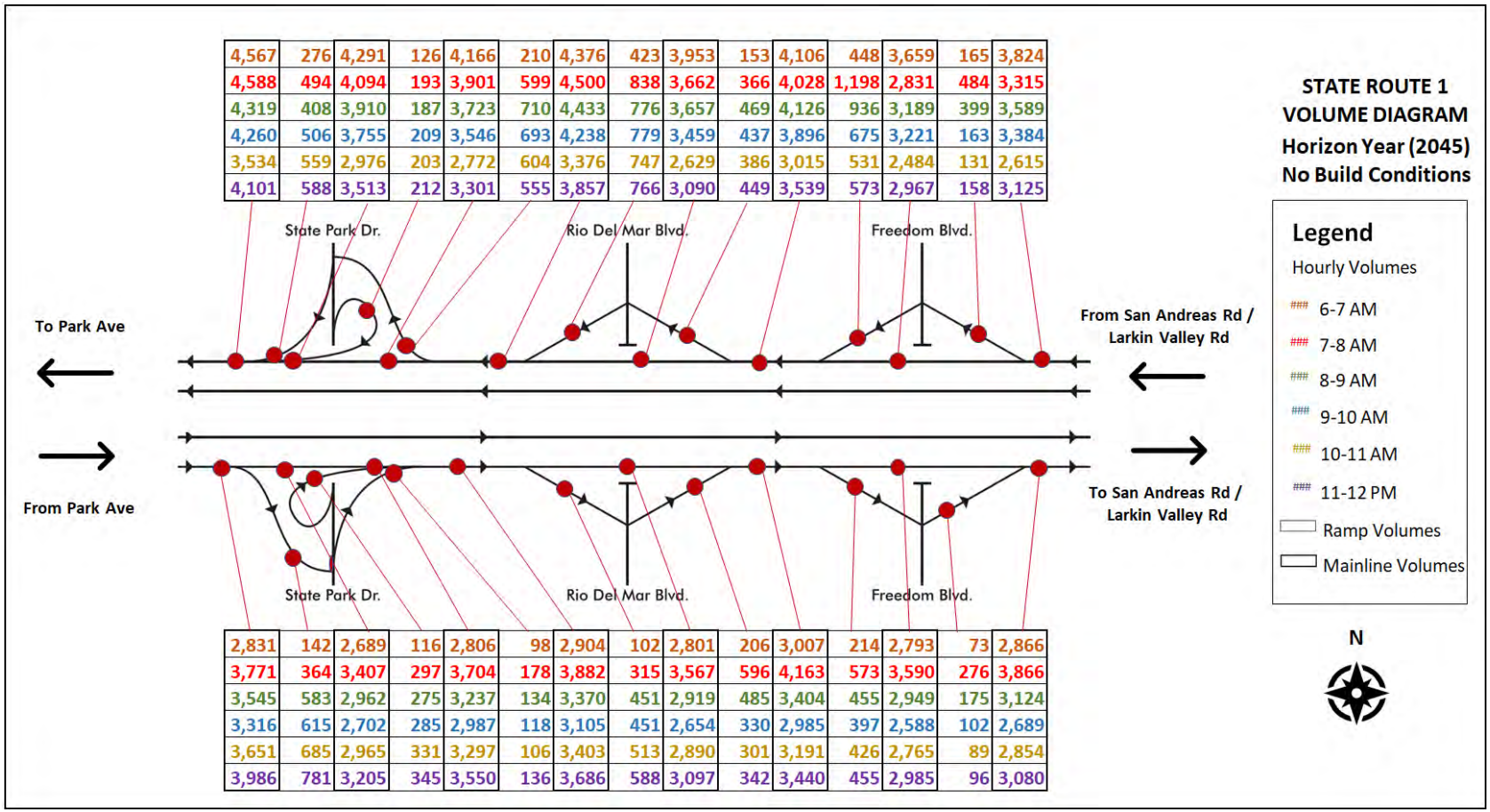
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Figure B-8 Estimated Weekday PM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Opening Year (2025) Build Conditions



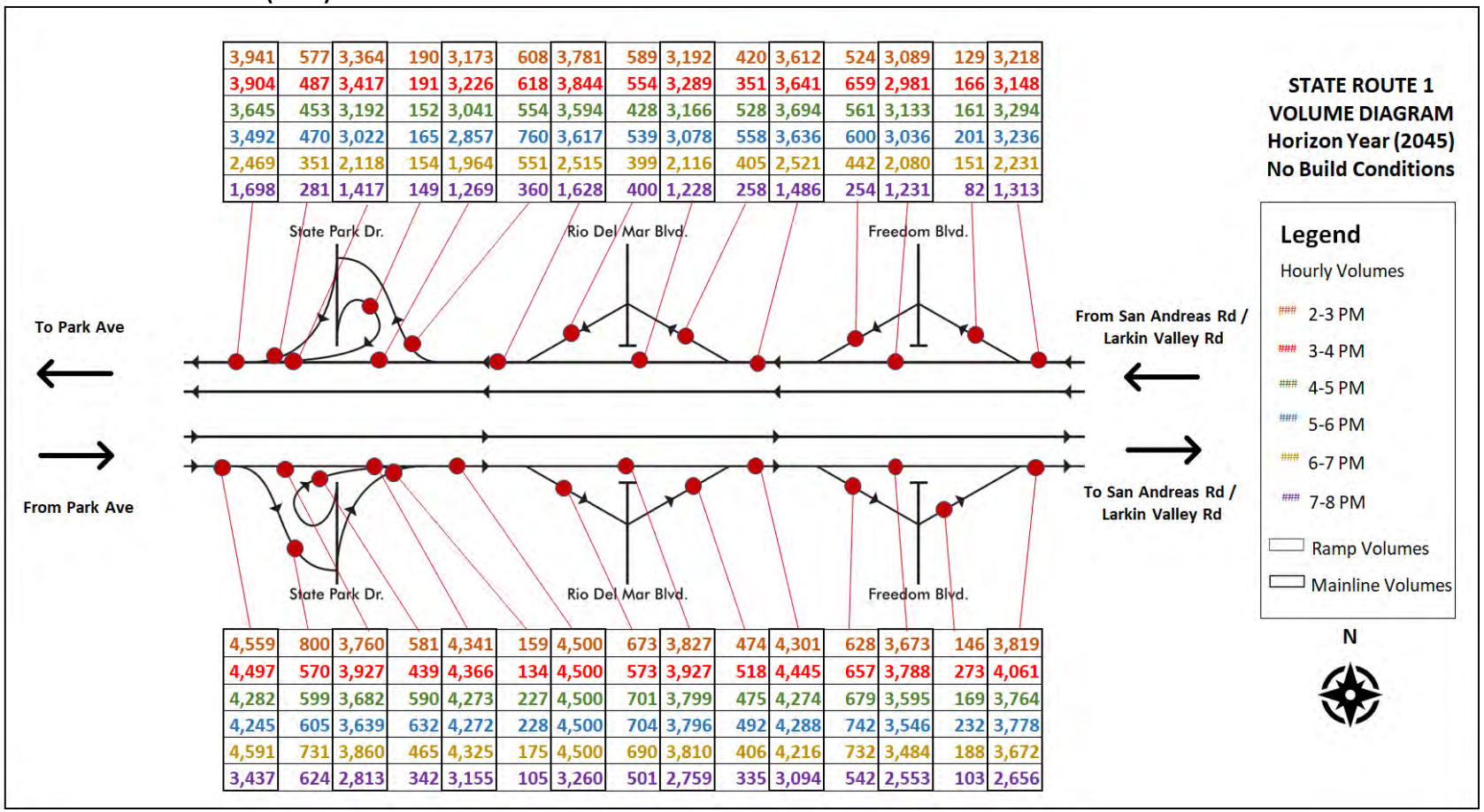
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Figure B-9 Estimated Weekday AM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Horizon Year (2045) No Build Conditions



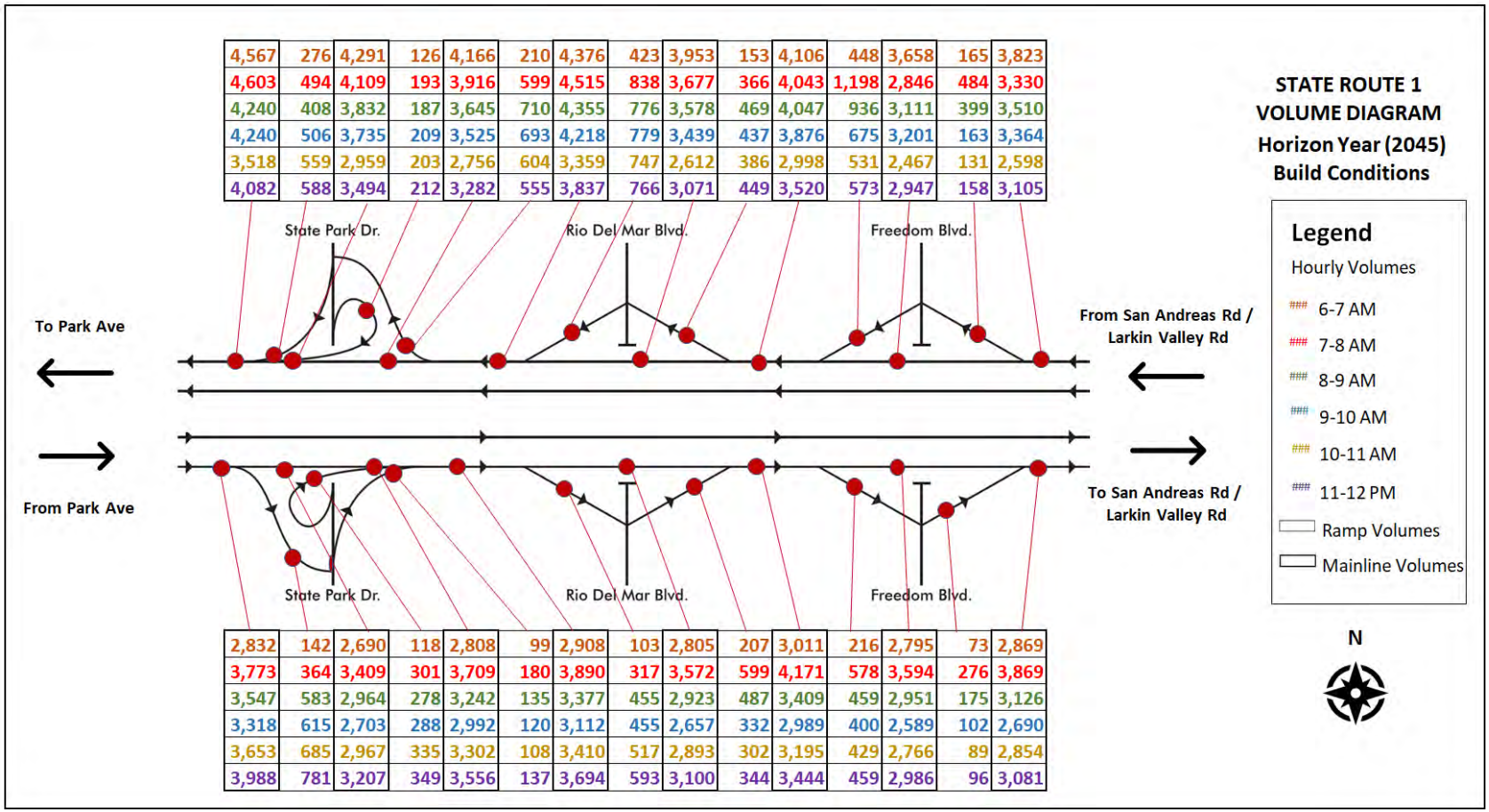
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Figure B-10 Estimated Weekday PM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Horizon Year (2045) No Build Conditions



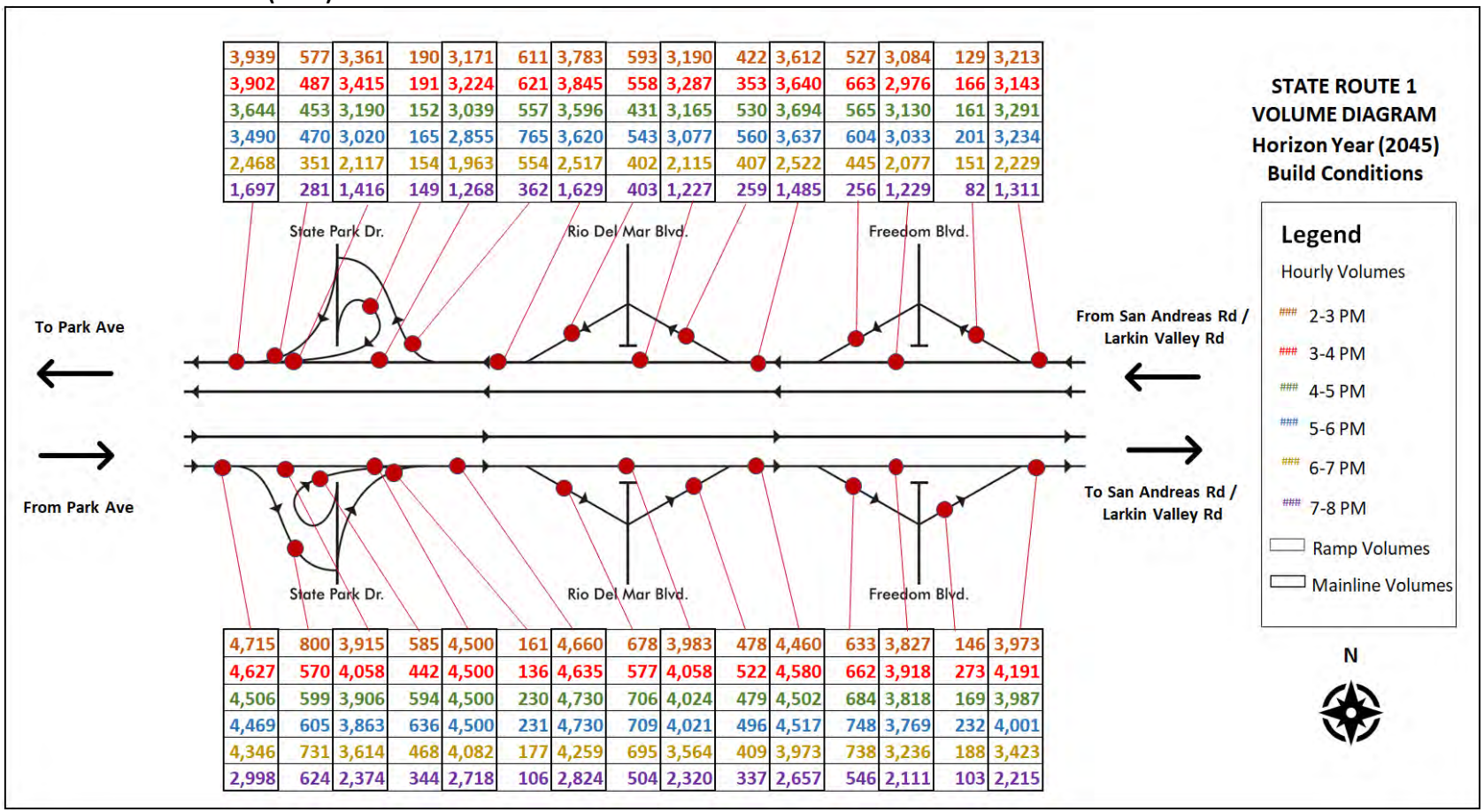
Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Figure B-11 Estimated Weekday AM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Horizon Year (2045) Build Conditions



Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Figure B-12 Estimated Weekday PM Period Hourly Demand Volumes (in vehicles) over SR 1 within the Project Limits and Adjacent Segments under Horizon Year (2045) Build Conditions



Source: Caltrans' Mainline and Ramp Traffic Counts; SCCRTC's October 2016 weekday traffic counts; AMBAG Travel Demand Model; and CDM Smith's Model Calibration, Induced Demand and Bus Ridership Analysis.

Appendix C

FREQ Model Raw Outputs

Existing (2019)
Northbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2152.	24.	2152.	2152.	24.	2152.	4400.	0.	0.	0.	.49	62.	17.4	B	13.6	4.8
2	2	1970.	0.	0.	2128.	0.	0.	2128.	4100.	0.	0.	0.	.52	62.	17.2	B	13.6	4.8
3	2	1830.	172.	16.	2300.	172.	16.	2300.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
4	2	2010.	0.	0.	2284.	0.	0.	2284.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
5	2	2445.	328.	88.	2612.	328.	88.	2612.	4100.	0.	0.	0.	.64	62.	21.1	C	13.6	4.8
6	2	1890.	0.	0.	2524.	0.	0.	2524.	4100.	0.	0.	0.	.62	62.	20.4	C	13.6	4.8
7	2	5320.	292.	128.	2816.	292.	128.	2816.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
8	2	880.	0.	0.	2688.	0.	0.	2688.	3900.	0.	0.	0.	.69	62.	21.7	C	14.9	4.8
9	2	1125.	84.	0.	2772.	84.	0.	2772.	3900.	0.	0.	0.	.71	62.	22.4	C	19.9	4.8
10	2	6320.	244.	80.	3016.	244.	80.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	19.9	4.8
11	2	2050.	0.	0.	2936.	0.	0.	2936.	4100.	0.	0.	0.	.72	62.	23.7	C	19.9	4.8
12	2	2560.	208.	0.	3144.	208.	0.	3144.	4400.	0.	0.	0.	.71	62.	25.4	C	17.2	4.7
13	2	1400.	0.	160.	3144.	0.	160.	3144.	4400.	0.	0.	0.	.71	62.	25.4	C	32.3	4.7
14	2	1320.	0.	0.	2984.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	14.9	4.8
15	3	540.	368.	536.	3352.	368.	536.	3352.	5292.	308.	0.	0.	.63	62.	18.0	C	12.6	4.8
16	2	1230.	0.	0.	2816.	0.	0.	2816.	4400.	0.	0.	0.	.64	62.	22.7	C	19.9	4.8
17	2	890.	396.	0.	3212.	396.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	20.0	4.7
18	2	4840.	72.	416.	3284.	72.	416.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	17.3	4.6
19	2	530.	0.	0.	2868.	0.	0.	2868.	3800.	0.	0.	0.	.75	62.	23.1	C	19.9	4.8
20	2	1040.	508.	0.	3376.	508.	0.	3376.	4392.	8.	0.	0.	.77	61.	27.4	D	20.2	4.5
21	3	2810.	280.	276.	3656.	280.	276.	3656.	5574.	26.	0.	0.	.66	62.	19.7	C	24.1	4.8
22	2	1850.	0.	0.	3380.	0.	0.	3380.	4400.	0.	0.	0.	.77	62.	27.5	D	17.4	4.5
23	3	2390.	204.	216.	3584.	204.	216.	3584.	5588.	12.	0.	0.	.64	62.	19.3	C	24.1	4.8
24	3	960.	0.	1976.	3368.	0.	1500.	3368.	5600.	0.	0.	0.	.60	62.	18.1	C	17.2	4.8
25	2	1400.	0.	1392.	1392.	0.	1392.	1392.	3600.	0.	0.	0.	.39	62.	11.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.77		LOWEST LOS = D	AVG = 62.	21.3		16.6	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	132. VEH-HRS	150. PASS-HRS	132. VEH-HRS	150. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	15. VEH-HRS	17. PASS-HRS	15. VEH-HRS	17. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	147. VEH-HRS	167. PASS-HRS	147. VEH-HRS	167. PASS-HRS
TOTAL TRAV DISTANCE =	8200. VEH-MI.	9282. PASS-MI.	8200. VEH-MI.	9282. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		21. VPMPL	
TOTAL FUEL =	499. GALLONS		499. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		40. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	119.	14.87	5.63	0.09	0.53	0.09	0.71

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2740.	20.	2740.	2740.	20.	2740.	4400.	0.	0.	0.	.62	62.	22.1	C	13.6	4.8
2	2	1970.	0.	0.	2720.	0.	0.	2720.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
3	2	1830.	200.	28.	2920.	200.	28.	2920.	4100.	0.	0.	0.	.71	62.	23.5	C	13.6	4.8
4	2	2010.	0.	0.	2892.	0.	0.	2892.	4100.	0.	0.	0.	.71	62.	23.3	C	13.6	4.8
5	2	2445.	440.	112.	3332.	440.	112.	3332.	4100.	0.	0.	0.	.81	61.	27.4	D	13.9	4.1
6	2	1890.	0.	0.	3220.	0.	0.	3220.	4100.	0.	0.	0.	.79	61.	26.3	D	13.8	4.4
7	2	5320.	300.	176.	3520.	300.	176.	3520.	4100.	0.	0.	0.	.86	59.	29.6	D	14.2	3.5
8	2	880.	0.	0.	3344.	0.	0.	3344.	3900.	0.	0.	0.	.86	60.	28.1	D	15.7	3.5
9	2	1125.	112.	0.	3456.	112.	0.	3456.	3900.	0.	0.	0.	.89	58.	29.6	D	21.3	3.2
10	2	6320.	288.	100.	3744.	288.	100.	3744.	4100.	0.	0.	0.	.91	57.	32.7	D	21.7	2.9
11	2	2050.	0.	0.	3644.	0.	0.	3644.	4100.	0.	0.	0.	.89	58.	31.2	D	21.4	3.2
12	2	2560.	240.	0.	3884.	240.	0.	3884.	4400.	0.	0.	0.	.88	59.	33.2	D	18.3	3.3
13	2	1400.	0.	168.	3884.	0.	168.	3884.	4400.	0.	0.	0.	.88	59.	33.2	D	35.2	3.3
14	2	1320.	0.	0.	3716.	0.	0.	3716.	4400.	0.	0.	0.	.84	60.	31.0	D	15.6	3.6
15	3	540.	364.	728.	4080.	364.	728.	4080.	5300.	300.	0.	0.	.77	62.	21.9	C	12.6	4.8
16	2	1230.	0.	0.	3352.	0.	0.	3352.	4400.	0.	0.	0.	.76	62.	27.2	D	20.1	4.5
17	2	890.	428.	0.	3780.	428.	0.	3780.	4400.	0.	0.	0.	.86	59.	31.8	D	21.1	3.5
18	2	4840.	84.	540.	3864.	84.	540.	3864.	4400.	0.	0.	0.	.88	59.	32.9	D	18.3	3.3
19	2	530.	0.	0.	3324.	0.	0.	3324.	3800.	0.	0.	0.	.87	59.	28.2	D	21.2	3.3
20	2	1040.	488.	0.	3812.	488.	0.	3812.	4390.	10.	0.	0.	.87	59.	32.2	D	21.2	3.4
21	3	2810.	336.	372.	4148.	336.	372.	4148.	5568.	32.	0.	0.	.74	62.	22.3	C	24.1	4.8
22	2	1850.	0.	0.	3776.	0.	0.	3776.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	204.	316.	3980.	204.	316.	3980.	5568.	32.	0.	0.	.71	62.	21.4	C	24.1	4.8
24	3	960.	0.	1948.	3664.	0.	1500.	3664.	5594.	6.	0.	0.	.65	62.	19.7	C	17.2	4.8
25	2	1400.	0.	1716.	1716.	0.	1716.	1716.	3600.	0.	0.	0.	.48	62.	13.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.91		LOWEST LOS = D	AVG = 60.	27.0		17.0	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	166. VEH-HRS	188. PASS-HRS	299. VEH-HRS	338. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	44. VEH-HRS	50. PASS-HRS	59. VEH-HRS	66. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	210. VEH-HRS	238. PASS-HRS	357. VEH-HRS	405. PASS-HRS
TOTAL TRAV DISTANCE =	10003. VEH-MI.	11323. PASS-MI.	18202. VEH-MI.	20605. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		61. MPH.	
AVERAGE DENSITY =	27. VPMPL		24. VPMPL	
TOTAL FUEL =	604. GALLONS		1103. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		81. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	231.	43.75	16.57	0.25	1.57	0.27	2.09

```
QUEUE COLLISION IN SECTION   9 T2 =0.076
QUEUE COLLISION IN SECTION   5 T2 =0.194
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3612.	28.	3612.	3612.	28.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	14.0	3.9
2	2	1970.	0.	0.	3584.	0.	0.	3584.	4100.	0.	0.	0.	.87	59.	30.4	D	14.3	3.4
3	2	1830.	272.	132.	3856.	272.	132.	3553.	4100.	0.	* 162.	303.	.87	56.	31.9	F	15.0	2.6
4	2	2010.	0.	0.	3724.	0.	0.	3421.	4100.	0.	** 2010.	303.	.83	41.	42.0	F	13.9	3.3
5	2	2445.	484.	136.	4208.	484.	133.	3905.	4100.	0.	** 2445.	195.	.95	42.	46.3	F	14.9	2.6
6	2	1890.	0.	0.	4072.	0.	0.	3772.	4100.	0.	** 1890.	195.	.92	32.	58.3	F	13.9	3.1
7	2	5320.	328.	252.	4400.	328.	235.	3899.	4100.	0.	* 4969.	201.	.95	43.	45.0	F	15.0	2.6
8	2	880.	0.	0.	4148.	0.	0.	3664.	3900.	0.	** 880.	201.	.94	34.	53.7	F	15.2	3.0
9	2	1125.	156.	0.	4304.	156.	0.	3820.	3900.	0.	** 1125.	80.	.98	38.	49.7	F	22.0	2.7
10	2	6320.	280.	144.	4584.	280.	129.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	4440.	0.	0.	3971.	4100.	0.	0.	0.	.97	54.	36.8	E	22.5	2.4
12	2	2560.	300.	0.	4740.	300.	0.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	19.6	2.4
13	2	1400.	0.	236.	4740.	0.	213.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	38.9	2.4
14	2	1320.	0.	0.	4504.	0.	0.	4059.	4400.	0.	0.	0.	.92	57.	35.8	E	16.3	2.8
15	3	540.	428.	968.	4932.	428.	881.	4487.	5256.	344.	0.	0.	.85	62.	24.1	C	12.6	4.8
16	2	1230.	0.	0.	3964.	0.	0.	3606.	4400.	0.	0.	0.	.82	61.	29.8	D	20.6	4.0
17	2	890.	428.	0.	4392.	428.	0.	4034.	4400.	0.	0.	0.	.92	57.	35.4	E	21.7	2.9
18	2	4840.	68.	676.	4460.	68.	622.	4102.	4400.	0.	0.	0.	.93	56.	36.5	E	19.0	2.7
19	2	530.	0.	0.	3784.	0.	0.	3480.	3800.	0.	0.	0.	.92	57.	30.5	D	21.7	2.9
20	2	1040.	492.	0.	4276.	492.	0.	3972.	4385.	15.	0.	0.	.91	58.	34.5	D	21.6	3.0
21	3	2810.	392.	560.	4668.	392.	524.	4364.	5556.	44.	0.	0.	.79	62.	23.5	C	24.1	4.8
22	2	1850.	0.	0.	4108.	0.	0.	3840.	4400.	0.	0.	0.	.87	59.	32.6	D	18.2	3.4
23	3	2390.	180.	312.	4288.	180.	293.	4020.	5561.	39.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	2148.	3976.	0.	1500.	3727.	5592.	8.	0.	0.	.67	62.	20.0	C	17.2	4.8
25	2	1400.	0.	1828.	1828.	0.	1714.	1714.	3600.	0.	0.	0.	.48	62.	13.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 52.	35.4		17.4	3.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	219. VEH-HRS	248. PASS-HRS	518. VEH-HRS	586. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	74. VEH-HRS	84. PASS-HRS	132. VEH-HRS	150. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	293. VEH-HRS	331. PASS-HRS	650. VEH-HRS	736. PASS-HRS
TOTAL TRAV DISTANCE =	11441. VEH-MI.	12951. PASS-MI.	29644. VEH-MI.	33557. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		57. MPH.	
AVERAGE DENSITY =	35. VPMPL		28. VPMPL	
TOTAL FUEL =	686. GALLONS		1789. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		122. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	359.	73.80	27.95	0.43	2.64	0.46	3.53

QUEUE COLLISION IN SECTION 7 T2 =0.014

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3732.	56.	3732.	3732.	56.	3732.	4400.	0.	0.	0.	.85	60.	31.2	D	14.2	3.6
2	2	1970.	0.	0.	3676.	0.	0.	3383.	4100.	0.	* 1932.	293.	.83	42.	40.7	F	13.9	3.4
3	2	1830.	364.	284.	4040.	364.	284.	3747.	4100.	0.	** 1830.	293.	.91	35.	53.6	F	14.2	3.0
4	2	2010.	0.	0.	3756.	0.	0.	3463.	4100.	0.	B* 2010.	293.	.84	24.	73.0	F	12.6	4.0
5	2	2445.	872.	184.	4628.	872.	161.	3741.	4033.	67.	** 2445.	293.	.93	31.	59.8	F	13.8	3.1
6	2	1890.	0.	0.	4444.	0.	0.	3580.	4100.	0.	** 1890.	293.	.87	25.	71.2	F	12.9	3.8
7	2	5320.	340.	332.	4784.	340.	284.	3920.	4100.	0.	** 5320.	180.	.96	33.	58.6	F	14.0	3.0
8	2	880.	0.	0.	4452.	0.	0.	3636.	3900.	0.	** 880.	180.	.93	31.	59.5	F	14.7	3.2
9	2	1125.	148.	0.	4600.	148.	0.	3784.	3900.	0.	** 1125.	116.	.97	35.	53.5	F	21.7	2.8
10	2	6320.	316.	208.	4916.	316.	173.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	4708.	0.	0.	3927.	4100.	0.	0.	0.	.96	55.	35.9	E	22.4	2.4
12	2	2560.	344.	0.	5052.	344.	0.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	19.5	2.4
13	2	1400.	0.	404.	5052.	0.	342.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	38.9	2.4
14	2	1320.	0.	0.	4648.	0.	0.	3929.	4400.	0.	0.	0.	.89	58.	33.8	D	16.0	3.2
15	3	540.	484.	1168.	5132.	484.	1005.	4413.	5228.	372.	0.	0.	.84	62.	23.7	C	12.6	4.8
16	2	1230.	0.	0.	3964.	0.	0.	3409.	4400.	0.	0.	0.	.77	61.	27.7	D	20.2	4.4
17	2	890.	424.	0.	4388.	424.	0.	3833.	4400.	0.	0.	0.	.87	59.	32.5	D	21.2	3.4
18	2	4840.	76.	760.	4464.	76.	665.	3909.	4400.	0.	0.	0.	.89	58.	33.5	D	18.4	3.2
19	2	530.	0.	0.	3704.	0.	0.	3244.	3800.	0.	0.	0.	.85	60.	27.2	D	21.0	3.5
20	2	1040.	532.	0.	4236.	532.	0.	3776.	4380.	20.	0.	0.	.86	59.	31.8	D	21.1	3.5
21	3	2810.	408.	740.	4644.	408.	666.	4184.	5539.	61.	0.	0.	.76	62.	22.5	C	24.1	4.8
22	2	1850.	0.	0.	3904.	0.	0.	3518.	4400.	0.	0.	0.	.80	61.	28.8	D	17.6	4.2
23	3	2390.	232.	192.	4136.	232.	174.	3750.	5563.	37.	0.	0.	.67	62.	20.2	C	24.1	4.8
24	3	960.	0.	2312.	3944.	0.	1500.	3575.	5596.	4.	0.	0.	.64	62.	19.2	C	17.2	4.8
25	2	1400.	0.	1632.	1632.	0.	1479.	1479.	3600.	0.	0.	0.	.41	62.	11.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 47.	39.1		16.9	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	240. VEH-HRS	271. PASS-HRS	757. VEH-HRS	857. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	108. VEH-HRS	123. PASS-HRS	241. VEH-HRS	273. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	348. VEH-HRS	394. PASS-HRS	998. VEH-HRS	1130. PASS-HRS
TOTAL TRAV DISTANCE =	11228. VEH-MI.	12710. PASS-MI.	40871. VEH-MI.	46266. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		54. MPH.	
AVERAGE DENSITY =	39. VPMPL		31. VPMPL	
TOTAL FUEL =	704. GALLONS		2493. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		164. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	3.	0.33	0.12	0.00	0.01	0.00	0.02
		TOTAL	3.	0.33	0.12	0.00	0.01	0.00	0.02
OFF-RAMP	11	OUTPUT POINT	508.	108.47	41.08	0.63	3.88	0.68	5.19

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1784.	76.	1784.	1784.	76.	1784.	4400.	0.	0.	0.	.41	62.	14.4	B	13.6	4.8
2	2	1970.	0.	0.	1708.	0.	0.	2001.	4100.	0.	* 362.	-293.	.49	11.	91.1	F	9.2	7.0
3	2	1830.	628.	388.	2336.	628.	388.	2629.	3958.	142.	** 1830.	-293.	.66	13.	103.8	F	10.4	6.3
4	2	2010.	0.	0.	1948.	0.	0.	2241.	4100.	0.	** 2010.	-293.	.55	9.	127.2	F	8.7	7.5
5	2	2445.	1716.	272.	3664.	1500.	257.	3752.	3963.	137.	** 2445.	-293.	.95	32.	58.2	F	13.8	3.1
6	2	1890.	0.	0.	3392.	0.	0.	3495.	4100.	0.	** 1890.	-293.	.85	23.	76.0	F	12.5	4.1
7	2	5320.	416.	416.	3808.	416.	395.	3911.	4100.	0.	** 5320.	-293.	.95	33.	59.0	F	13.9	3.0
8	2	880.	0.	0.	3392.	0.	0.	3516.	3900.	0.	** 880.	-293.	.90	27.	64.4	F	14.1	3.5
9	2	1125.	148.	0.	3540.	148.	0.	3664.	3900.	0.	** 1125.	-293.	.94	31.	58.4	F	20.9	3.1
10	2	6320.	436.	256.	3976.	436.	264.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	3720.	0.	0.	3836.	4100.	0.	0.	0.	.94	56.	34.3	D	22.0	2.6
12	2	2560.	376.	0.	4096.	376.	0.	4212.	4400.	0.	0.	0.	.96	55.	38.5	E	19.4	2.4
13	2	1400.	0.	396.	4096.	0.	407.	4212.	4400.	0.	0.	0.	.96	55.	38.5	E	38.2	2.4
14	2	1320.	0.	0.	3700.	0.	0.	3805.	4400.	0.	0.	0.	.86	59.	32.1	D	15.7	3.4
15	3	540.	660.	1120.	4360.	660.	1147.	4465.	5108.	492.	0.	0.	.87	62.	24.0	C	12.6	4.8
16	2	1230.	0.	0.	3240.	0.	0.	3318.	4400.	0.	0.	0.	.75	62.	26.9	D	20.1	4.6
17	2	890.	496.	0.	3736.	496.	0.	3814.	4400.	0.	0.	0.	.87	59.	32.2	D	21.1	3.4
18	2	4840.	112.	724.	3848.	112.	739.	3926.	4400.	0.	0.	0.	.89	58.	33.7	D	18.5	3.2
19	2	530.	0.	0.	3124.	0.	0.	3188.	3800.	0.	0.	0.	.84	60.	26.5	D	20.9	3.7
20	2	1040.	648.	0.	3772.	648.	0.	3836.	4380.	20.	0.	0.	.88	59.	32.6	D	21.2	3.3
21	3	2810.	488.	716.	4260.	488.	726.	4324.	5533.	67.	0.	0.	.78	62.	23.2	C	24.1	4.8
22	2	1850.	0.	0.	3544.	0.	0.	3597.	4400.	0.	0.	0.	.82	61.	29.7	D	17.7	4.0
23	3	2390.	304.	168.	3848.	304.	170.	3901.	5542.	58.	0.	0.	.70	62.	21.0	C	24.1	4.8
24	3	960.	0.	1852.	3680.	0.	1500.	3731.	5589.	11.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	1828.	1828.	0.	1853.	1853.	3600.	0.	0.	0.	.51	62.	14.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 39.	40.7		16.8	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	247. VEH-HRS	280. PASS-HRS	1004. VEH-HRS	1137. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	7. VEH-HRS	8. PASS-HRS
OFF-RAMP DELAY =	139. VEH-HRS	157. PASS-HRS	380. VEH-HRS	430. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	393. VEH-HRS	444. PASS-HRS	1391. VEH-HRS	1575. PASS-HRS
TOTAL TRAV DISTANCE =	9668. VEH-MI.	10944. PASS-MI.	50539. VEH-MI.	57210. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		50. MPH.	
AVERAGE DENSITY =	41. VPMPL		33. VPMPL	
TOTAL FUEL =	631. GALLONS		3124. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		207. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	54.	6.75	2.56	0.04	0.24	0.04	0.32
		FREEWAY	0.	0.01	0.00	0.00	0.00	0.00	0.00
		TOTAL	54.	6.76	2.56	0.04	0.24	0.04	0.32
OFF-RAMP	11	OUTPUT POINT	603.	138.89	52.60	0.81	4.97	0.87	6.64

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1756.	100.	1756.	1756.	100.	1756.	4400.	0.	0.	0.	.40	62.	14.2	B	13.6	4.8
2	2	1970.	0.	0.	1656.	0.	0.	1656.	4100.	0.	0.	0.	.40	36.	23.1	C	12.7	5.1
3	2	1830.	728.	340.	2384.	728.	340.	2475.	3958.	142.	* 1699.	-91.	.63	11.	109.5	F	10.0	6.6
4	2	2010.	0.	0.	2044.	0.	0.	2135.	4100.	0.	** 2010.	-91.	.52	8.	131.5	F	8.2	7.9
5	2	2445.	1544.	364.	3588.	1500.	355.	3635.	3892.	208.	** 2445.	-91.	.93	31.	59.1	F	13.7	3.2
6	2	1890.	0.	0.	3224.	0.	0.	3281.	4100.	0.	** 1890.	-91.	.80	19.	84.7	F	11.8	4.7
7	2	5320.	628.	568.	3852.	628.	557.	3909.	4100.	0.	** 5320.	-91.	.95	33.	59.1	F	13.9	3.0
8	2	880.	0.	0.	3284.	0.	0.	3352.	3900.	0.	** 880.	-91.	.86	24.	71.1	F	13.5	4.0
9	2	1125.	208.	0.	3492.	208.	0.	3560.	3900.	0.	** 1125.	-91.	.91	28.	62.6	F	20.2	3.4
10	2	6320.	540.	336.	4032.	540.	339.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	3696.	0.	0.	3761.	4100.	0.	0.	0.	.92	57.	33.0	D	21.8	2.9
12	2	2560.	500.	0.	4196.	500.	0.	4261.	4400.	0.	0.	0.	.97	54.	39.5	E	19.5	2.4
13	2	1400.	0.	276.	4196.	0.	285.	4261.	4400.	0.	0.	0.	.97	54.	39.5	E	38.8	2.4
14	2	1320.	0.	0.	3920.	0.	0.	3977.	4400.	0.	0.	0.	.90	58.	34.5	D	16.1	3.0
15	3	540.	872.	1160.	4792.	872.	1176.	4849.	4940.	660.	0.	0.	.98	53.	30.5	D	14.3	2.4
16	2	1230.	0.	0.	3632.	0.	0.	3673.	4400.	0.	0.	0.	.83	60.	30.5	D	20.8	3.7
17	2	890.	584.	0.	4216.	584.	0.	4244.	4400.	0.	* 378.	13.	.96	48.	44.0	F	22.3	2.5
18	2	4840.	156.	748.	4372.	156.	755.	4400.	4400.	0.	0.	0.	1.00	52.	42.7	E	20.0	2.3
19	2	530.	0.	0.	3624.	0.	0.	3645.	3800.	0.	0.	0.	.96	55.	33.4	D	22.4	2.4
20	2	1040.	688.	0.	4312.	688.	0.	4333.	4372.	28.	0.	0.	.99	52.	41.5	E	22.9	2.3
21	3	2810.	752.	892.	5064.	752.	895.	5085.	5233.	367.	0.	0.	.97	54.	31.6	D	29.0	2.4
22	2	1850.	0.	0.	4172.	0.	0.	4190.	4400.	0.	0.	0.	.95	55.	38.1	E	19.3	2.4
23	3	2390.	300.	196.	4472.	300.	196.	4490.	5524.	76.	0.	0.	.81	62.	24.1	C	24.1	4.8
24	3	960.	0.	1676.	4276.	0.	1500.	4294.	5574.	26.	0.	0.	.77	62.	23.1	C	17.2	4.8
25	2	1400.	0.	2600.	2600.	0.	2604.	2604.	3600.	0.	0.	0.	.72	62.	21.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 40.	41.5		17.4	3.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	255. VEH-HRS	288. PASS-HRS	1259. VEH-HRS	1425. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	15. VEH-HRS	17. PASS-HRS	22. VEH-HRS	24. PASS-HRS
OFF-RAMP DELAY =	157. VEH-HRS	177. PASS-HRS	536. VEH-HRS	607. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	426. VEH-HRS	482. PASS-HRS	1817. VEH-HRS	2057. PASS-HRS
TOTAL TRAV DISTANCE =	10063. VEH-MI.	11391. PASS-MI.	60602. VEH-MI.	68602. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		48. MPH.	
AVERAGE DENSITY =	42. VPMPL		34. VPMPL	
TOTAL FUEL =	642. GALLONS		3766. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		249. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	65.	14.88	5.63	0.09	0.53	0.09	0.71
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	65.	14.88	5.63	0.09	0.53	0.09	0.71
OFF-RAMP	11	OUTPUT POINT	650.	156.62	59.32	0.91	5.60	0.98	7.49

```
QUEUE COLLISION IN SECTION  20 T2 =0.044
QUEUE COLLISION IN SECTION  18 T2 =0.250
QUEUE CLEAR SECTION  17 T2 =0.233
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2808.	128.	2808.	2808.	128.	2808.	4400.	0.	0.	0.	.64	62.	22.6	C	13.6	4.8
2	2	1970.	0.	0.	2680.	0.	0.	2377.	4100.	0.	* 1895.	303.	.58	19.	62.9	F	11.5	5.7
3	2	1830.	448.	144.	3128.	448.	144.	2825.	4100.	0.	** 1830.	303.	.69	14.	103.2	F	10.8	6.0
4	2	2010.	0.	0.	2984.	0.	0.	2681.	4100.	0.	** 2010.	303.	.65	12.	109.2	F	10.3	6.3
5	2	2445.	632.	276.	3616.	892.	301.	3573.	3975.	125.	** 2445.	303.	.90	27.	66.1	F	13.2	3.6
6	2	1890.	0.	0.	3340.	0.	0.	3272.	4100.	0.	** 1890.	303.	.80	19.	85.1	F	11.8	4.8
7	2	5320.	780.	676.	4120.	780.	668.	4052.	4100.	0.	** 5320.	48.	.99	38.	53.2	F	14.2	2.7
8	2	880.	0.	0.	3444.	0.	0.	3384.	3900.	0.	** 880.	48.	.87	24.	69.8	F	13.6	3.9
9	2	1125.	204.	0.	3648.	204.	0.	3588.	3900.	0.	** 1125.	48.	.92	29.	61.5	F	20.4	3.3
10	2	6320.	512.	396.	4160.	512.	388.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	3764.	0.	0.	3389.	4100.	0.	* 873.	323.	.83	54.	31.4	F	21.4	3.1
12	2	2560.	632.	0.	4396.	632.	0.	4021.	4400.	0.	** 2560.	323.	.91	40.	49.7	F	18.4	2.7
13	2	1400.	0.	216.	4396.	0.	217.	4021.	4400.	0.	** 1400.	323.	.91	34.	58.4	F	39.3	3.0
14	2	1320.	0.	0.	4180.	0.	0.	3804.	4400.	0.	** 1320.	323.	.86	26.	73.0	F	13.9	3.8
15	3	540.	1028.	1324.	5208.	1028.	1227.	4832.	4832.	768.	0.	0.	1.00	52.	31.2	E	14.5	2.3
16	2	1230.	0.	0.	3884.	0.	0.	3605.	4400.	0.	0.	0.	.82	61.	29.8	D	20.6	4.0
17	2	890.	604.	0.	4488.	604.	0.	4209.	4400.	0.	0.	0.	.96	49.	43.1	E	22.2	2.5
18	2	4840.	136.	700.	4624.	136.	662.	4130.	4400.	0.	** 4840.	230.	.94	42.	49.5	F	18.6	2.6
19	2	530.	0.	0.	3924.	0.	0.	3467.	3800.	0.	** 530.	230.	.91	31.	55.7	F	20.6	3.2
20	2	1040.	724.	0.	4648.	724.	0.	4191.	4363.	37.	** 1040.	172.	.96	35.	59.6	F	21.6	2.9
21	3	2810.	836.	1104.	5484.	836.	1010.	5027.	5027.	573.	0.	0.	1.00	52.	32.5	E	30.3	2.3
22	2	1850.	0.	0.	4380.	0.	0.	4017.	4400.	0.	0.	0.	.91	57.	35.1	E	18.7	2.9
23	3	2390.	368.	252.	4748.	368.	232.	4385.	5502.	98.	0.	0.	.80	62.	23.6	C	24.1	4.8
24	3	960.	0.	1872.	4496.	0.	1500.	4153.	5565.	35.	0.	0.	.75	62.	22.3	C	17.2	4.8
25	2	1400.	0.	2624.	2624.	0.	2425.	2425.	3600.	0.	0.	0.	.67	62.	19.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 38.	45.8		16.9	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	283. VEH-HRS	321. PASS-HRS	1542. VEH-HRS	1745. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	8. VEH-HRS	9. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	170. VEH-HRS	192. PASS-HRS	706. VEH-HRS	799. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	461. VEH-HRS	522. PASS-HRS	2278. VEH-HRS	2579. PASS-HRS
TOTAL TRAV DISTANCE =	10776. VEH-MI.	12198. PASS-MI.	71378. VEH-MI.	80799. PASS-MI.
AVERAGE SYSTEM SPEED =	23. MPH.		46. MPH.	
AVERAGE DENSITY =	46. VPMPL		36. VPMPL	
TOTAL FUEL =	706. GALLONS		4471. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		296. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	0.	8.13	3.08	0.05	0.29	0.05	0.39
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	8.13	3.08	0.05	0.29	0.05	0.39
OFF-RAMP	11	OUTPUT POINT	707.	169.69	64.27	0.99	6.07	1.06	8.12

```
QUEUE SPLIT SECTION  7
QUEUE COLLISION IN SECTION  10 T2 =0.211
QUEUE COLLISION IN SECTION   8 T2 =0.232
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2532.	168.	2532.	2532.	168.	2532.	4400.	0.	0.	0.	.58	62.	20.4	C	13.6	4.8
2	2	1970.	0.	0.	2364.	0.	0.	2364.	4100.	0.	0.	0.	.58	28.	42.2	E	12.4	5.2
3	2	1830.	372.	144.	2736.	372.	144.	2714.	4100.	0.	* 577.	22.	.66	19.	70.6	F	11.8	5.1
4	2	2010.	0.	0.	2592.	0.	0.	2570.	4100.	0.	** 2010.	22.	.63	15.	84.3	F	11.2	5.6
5	2	2445.	656.	268.	3248.	656.	268.	3226.	4079.	21.	** 2445.	22.	.79	26.	61.8	F	13.0	3.7
6	2	1890.	0.	0.	2980.	0.	0.	2958.	4100.	0.	** 1890.	22.	.72	21.	71.9	F	12.1	4.5
7	2	5320.	712.	688.	3692.	712.	688.	3670.	4100.	0.	** 5320.	22.	.90	39.	47.3	F	14.1	2.6
8	2	880.	0.	0.	3004.	0.	0.	2982.	3900.	0.	** 880.	430.	.76	27.	54.3	F	14.0	3.8
9	2	1125.	208.	0.	3212.	208.	0.	3190.	3900.	0.	** 1125.	430.	.82	29.	55.2	F	20.3	3.3
10	2	6320.	452.	368.	3664.	452.	412.	3642.	4100.	0.	** 6320.	458.	.89	36.	50.6	F	21.3	2.9
11	2	2050.	0.	0.	3296.	0.	0.	3230.	4100.	0.	** 2050.	458.	.79	20.	82.7	F	17.4	4.8
12	2	2560.	732.	0.	4028.	732.	0.	3962.	4400.	0.	** 2560.	438.	.90	27.	72.9	F	16.0	3.5
13	2	1400.	0.	280.	4028.	0.	306.	3961.	4400.	0.	** 1400.	438.	.90	27.	72.9	F	37.8	3.5
14	2	1320.	0.	0.	3748.	0.	0.	3656.	4400.	0.	** 1320.	438.	.83	21.	85.4	F	13.0	4.4
15	3	540.	1124.	1324.	4872.	1124.	1299.	4780.	4780.	820.	0.	0.	1.00	52.	30.9	E	14.5	2.3
16	2	1230.	0.	0.	3548.	0.	0.	3481.	4400.	0.	0.	0.	.79	61.	28.5	D	20.3	4.3
17	2	890.	480.	0.	4028.	480.	0.	3961.	4400.	0.	0.	0.	.90	58.	34.3	D	21.5	3.1
18	2	4840.	156.	656.	4184.	156.	646.	4138.	4400.	0.	* 4368.	-21.	.94	32.	64.3	F	17.0	3.1
19	2	530.	0.	0.	3528.	0.	0.	3492.	3800.	0.	** 530.	-21.	.92	29.	60.1	F	20.4	3.3
20	2	1040.	724.	0.	4252.	724.	0.	4216.	4365.	35.	** 1040.	-21.	.97	35.	60.7	F	21.6	2.9
21	3	2810.	844.	1116.	5096.	844.	1108.	5060.	5060.	540.	0.	0.	1.00	52.	32.7	E	30.3	2.3
22	2	1850.	0.	0.	3980.	0.	0.	3952.	4400.	0.	0.	0.	.90	58.	34.1	D	18.5	3.1
23	3	2390.	408.	308.	4388.	408.	306.	4360.	5504.	96.	0.	0.	.79	62.	23.4	C	24.1	4.8
24	3	960.	0.	1812.	4080.	0.	1500.	4054.	5569.	31.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2268.	2268.	0.	2254.	2254.	3600.	0.	0.	0.	.63	62.	18.2	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 35.	46.9		16.5	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	300. VEH-HRS	340. PASS-HRS	1842. VEH-HRS	2086. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	186. VEH-HRS	211. PASS-HRS	892. VEH-HRS	1010. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	487. VEH-HRS	551. PASS-HRS	2765. VEH-HRS	3130. PASS-HRS
TOTAL TRAV DISTANCE =	10435. VEH-MI.	11812. PASS-MI.	81812. VEH-MI.	92611. PASS-MI.
AVERAGE SYSTEM SPEED =	21. MPH.		44. MPH.	
AVERAGE DENSITY =	47. VPMPL		37. VPMPL	
TOTAL FUEL =	703. GALLONS		5174. GALLONS	
TOTAL EMISSIONS =	48. KILOGRAMS		344. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	782.	186.19	70.52	1.08	6.66	1.16	8.91

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2756.	164.	2756.	2756.	164.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	13.6	4.8
2	2	1970.	0.	0.	2592.	0.	0.	2432.	4100.	0.	* 45.	160.	.59	62.	19.7	F	13.6	4.8
3	2	1830.	364.	172.	2956.	364.	172.	2796.	4100.	0.	** 1830.	160.	.68	18.	76.6	F	11.5	5.6
4	2	2010.	0.	0.	2784.	0.	0.	2624.	4100.	0.	** 2010.	160.	.64	12.	111.5	F	10.2	6.5
5	2	2445.	716.	392.	3500.	716.	392.	3340.	3975.	125.	** 2445.	160.	.84	22.	75.6	F	12.3	4.2
6	2	1890.	0.	0.	3108.	0.	0.	2948.	4100.	0.	** 1890.	160.	.72	15.	98.3	F	11.2	5.7
7	2	5320.	620.	664.	3728.	620.	664.	3568.	4100.	0.	** 5320.	160.	.87	24.	73.0	F	12.8	3.9
8	2	880.	0.	0.	3064.	0.	0.	2904.	3900.	0.	** 880.	160.	.74	16.	89.4	F	12.1	5.4
9	2	1125.	216.	0.	3280.	216.	0.	3120.	3900.	0.	** 1125.	160.	.80	19.	80.6	F	17.5	4.7
10	2	6320.	408.	360.	3688.	408.	360.	3528.	4100.	0.	** 6320.	160.	.86	24.	74.6	F	18.9	4.0
11	2	2050.	0.	0.	3328.	0.	0.	3168.	4100.	0.	** 2050.	160.	.77	18.	89.3	F	16.7	5.1
12	2	2560.	724.	0.	4052.	724.	0.	3892.	4400.	0.	** 2560.	160.	.88	26.	75.8	F	15.7	3.7
13	2	1400.	0.	308.	4052.	0.	308.	3892.	4400.	0.	** 1400.	160.	.88	26.	75.8	F	36.5	3.7
14	2	1320.	0.	0.	3744.	0.	0.	3584.	4400.	0.	** 1320.	160.	.81	20.	88.3	F	12.8	4.5
15	3	540.	1164.	1308.	4908.	1164.	1265.	4748.	4748.	852.	0.	0.	1.00	52.	30.7	E	14.5	2.3
16	2	1230.	0.	0.	3600.	0.	0.	3278.	4400.	0.	* 1070.	204.	.75	37.	44.5	F	19.1	4.6
17	2	890.	496.	0.	4096.	496.	0.	3774.	4400.	0.	** 890.	204.	.86	28.	67.0	F	19.5	3.7
18	2	4840.	200.	596.	4296.	200.	580.	3974.	4400.	0.	** 4840.	204.	.90	28.	72.2	F	16.1	3.5
19	2	530.	0.	0.	3700.	0.	0.	3395.	3800.	0.	** 530.	204.	.89	27.	64.0	F	19.7	3.6
20	2	1040.	684.	0.	4384.	684.	0.	4079.	4367.	33.	** 1040.	204.	.93	31.	66.4	F	20.8	3.2
21	3	2810.	912.	1120.	5296.	912.	1055.	4991.	4991.	609.	0.	0.	1.00	52.	32.3	E	30.3	2.3
22	2	1850.	0.	0.	4176.	0.	0.	3935.	4400.	0.	0.	0.	.89	58.	33.9	D	18.5	3.1
23	3	2390.	444.	256.	4620.	444.	243.	4379.	5484.	116.	0.	0.	.80	62.	23.5	C	24.1	4.8
24	3	960.	0.	1880.	4364.	0.	1500.	4137.	5561.	39.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2484.	2484.	0.	2355.	2355.	3600.	0.	0.	0.	.65	62.	19.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 29.	56.5	15.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	344. VEH-HRS	389. PASS-HRS	2186. VEH-HRS	2475. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	204. VEH-HRS	231. PASS-HRS	1097. VEH-HRS	1241. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	548. VEH-HRS	621. PASS-HRS	3313. VEH-HRS	3750. PASS-HRS
TOTAL TRAV DISTANCE =	10103. VEH-MI.	11437. PASS-MI.	91915. VEH-MI.	104048. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		42. MPH.	
AVERAGE DENSITY =	56. VPMPL		39. VPMPL	
TOTAL FUEL =	717. GALLONS		5890. GALLONS	
TOTAL EMISSIONS =	52. KILOGRAMS		396. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	853.	204.38	77.41	1.19	7.31	1.28	9.78

QUEUE COLLISION IN SECTION 15 T2 =0.033

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2736.	152.	2736.	2736.	152.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	13.6	4.8
2	2	1970.	0.	0.	2584.	0.	0.	2528.	4100.	0.	* 436.	56.	.62	40.	31.8	F	13.0	5.0
3	2	1830.	400.	232.	2984.	400.	232.	2928.	4100.	0.	** 1830.	56.	.71	15.	99.1	F	11.1	5.8
4	2	2010.	0.	0.	2752.	0.	0.	2696.	4100.	0.	** 2010.	56.	.66	12.	108.6	F	10.4	6.3
5	2	2445.	976.	400.	3728.	976.	400.	3672.	3893.	207.	** 2445.	56.	.94	32.	57.7	F	13.8	3.1
6	2	1890.	0.	0.	3328.	0.	0.	3272.	4100.	0.	** 1890.	56.	.80	19.	85.1	F	11.8	4.8
7	2	5320.	568.	656.	3896.	568.	656.	3840.	4100.	0.	** 5320.	56.	.94	31.	61.9	F	13.7	3.2
8	2	880.	0.	0.	3240.	0.	0.	3184.	3900.	0.	** 880.	56.	.82	20.	78.0	F	12.8	4.5
9	2	1125.	180.	0.	3420.	180.	0.	3074.	3900.	0.	** 1125.	346.	.79	24.	64.6	F	18.9	4.0
10	2	6320.	360.	376.	3780.	360.	376.	3434.	4100.	0.	** 6320.	346.	.84	26.	64.9	F	19.7	3.6
11	2	2050.	0.	0.	3404.	0.	0.	3058.	4100.	0.	** 2050.	346.	.75	18.	83.5	F	17.0	4.9
12	2	2560.	648.	0.	4052.	648.	0.	3706.	4400.	0.	** 2560.	346.	.84	24.	76.6	F	15.3	3.9
13	2	1400.	0.	284.	4052.	0.	284.	3706.	4400.	0.	** 1400.	346.	.84	24.	78.7	F	34.7	4.0
14	2	1320.	0.	0.	3768.	0.	0.	3422.	4400.	0.	** 1320.	346.	.78	19.	91.6	F	12.5	4.9
15	3	540.	1084.	1260.	4852.	1084.	1245.	4506.	4796.	804.	** 540.	290.	.94	33.	46.0	F	13.4	3.0
16	2	1230.	0.	0.	3592.	0.	0.	3261.	4400.	0.	** 1230.	290.	.74	16.	101.2	F	16.0	5.5
17	2	890.	572.	0.	4164.	572.	0.	3833.	4400.	0.	** 890.	290.	.87	25.	78.2	F	19.1	3.9
18	2	4840.	196.	548.	4360.	196.	543.	4029.	4400.	0.	** 4840.	290.	.92	29.	70.2	F	16.4	3.4
19	2	530.	0.	0.	3812.	0.	0.	3486.	3800.	0.	** 530.	290.	.92	29.	60.3	F	20.3	3.4
20	2	1040.	688.	0.	4500.	688.	0.	4174.	4368.	32.	** 1040.	194.	.96	33.	62.5	F	21.3	3.0
21	3	2810.	872.	1032.	5372.	872.	969.	5046.	5046.	554.	0.	0.	1.00	52.	32.6	E	30.3	2.3
22	2	1850.	0.	0.	4340.	0.	0.	4077.	4400.	0.	0.	0.	.93	56.	36.1	E	18.9	2.8
23	3	2390.	536.	232.	4876.	536.	219.	4613.	5462.	138.	0.	0.	.84	62.	24.8	C	24.1	4.8
24	3	960.	0.	1856.	4644.	0.	1500.	4393.	5550.	50.	0.	0.	.79	62.	23.6	C	17.2	4.8
25	2	1400.	0.	2788.	2788.	0.	2638.	2638.	3600.	0.	0.	0.	.73	62.	21.3	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 30. 55.3 16.0 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	342. VEH-HRS	387. PASS-HRS	2528. VEH-HRS	2861. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	221. VEH-HRS	250. PASS-HRS	1318. VEH-HRS	1492. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	563. VEH-HRS	637. PASS-HRS	3876. VEH-HRS	4387. PASS-HRS
TOTAL TRAV DISTANCE =	10365. VEH-MI.	11733. PASS-MI.	102280. VEH-MI.	115781. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		40. MPH.	
AVERAGE DENSITY =	55. VPMPL		41. VPMPL	
TOTAL FUEL =	730. GALLONS		6620. GALLONS	
TOTAL EMISSIONS =	52. KILOGRAMS		448. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	917.	221.19	83.77	1.29	7.91	1.38	10.58

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2468.	132.	2468.	2468.	132.	2468.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
2	2	1970.	0.	0.	2336.	0.	0.	2218.	4100.	0.	* 1147.	118.	.54	18.	60.8	F	11.1	5.9
3	2	1830.	368.	264.	2704.	368.	264.	2586.	4100.	0.	** 1830.	118.	.63	11.	113.1	F	10.1	6.5
4	2	2010.	0.	0.	2440.	0.	0.	2322.	4100.	0.	** 2010.	118.	.57	9.	123.9	F	9.1	7.2
5	2	2445.	1144.	364.	3584.	1144.	364.	3466.	3902.	198.	** 2445.	118.	.89	26.	66.6	F	13.0	3.7
6	2	1890.	0.	0.	3220.	0.	0.	3102.	4100.	0.	** 1890.	118.	.76	17.	92.0	F	11.4	5.3
7	2	5320.	540.	660.	3760.	540.	660.	3642.	4100.	0.	** 5320.	118.	.89	26.	69.9	F	13.0	3.7
8	2	880.	0.	0.	3100.	0.	0.	2982.	3900.	0.	** 880.	118.	.76	17.	86.2	F	12.3	5.2
9	2	1125.	148.	0.	3248.	148.	0.	3130.	3900.	0.	** 1125.	118.	.80	20.	80.2	F	17.5	4.7
10	2	6320.	396.	428.	3644.	396.	428.	3526.	4100.	0.	** 6320.	118.	.86	24.	74.7	F	18.9	4.0
11	2	2050.	0.	0.	3216.	0.	0.	3098.	4100.	0.	** 2050.	118.	.76	17.	92.2	F	16.3	5.3
12	2	2560.	612.	0.	3828.	612.	0.	3710.	4400.	0.	** 2560.	118.	.84	22.	83.2	F	14.8	4.2
13	2	1400.	0.	324.	3828.	0.	324.	3710.	4400.	0.	** 1400.	118.	.84	22.	83.2	F	33.5	4.2
14	2	1320.	0.	0.	3504.	0.	0.	3386.	4400.	0.	** 1320.	118.	.77	18.	96.4	F	12.3	5.1
15	3	540.	1008.	1360.	4512.	1008.	1360.	4394.	4896.	704.	** 540.	118.	.90	27.	54.5	F	12.7	3.6
16	2	1230.	0.	0.	3152.	0.	0.	3034.	4400.	0.	** 1230.	118.	.69	14.	110.8	F	14.7	6.0
17	2	890.	624.	0.	3776.	624.	0.	3658.	4400.	0.	** 890.	118.	.83	21.	85.3	F	18.2	4.3
18	2	4840.	160.	520.	3936.	160.	520.	3818.	4400.	0.	** 4840.	118.	.87	24.	78.8	F	15.3	3.9
19	2	530.	0.	0.	3416.	0.	0.	3298.	3800.	0.	** 530.	118.	.87	24.	68.0	F	19.1	3.9
20	2	1040.	768.	0.	4184.	768.	0.	4066.	4363.	37.	** 1040.	118.	.93	31.	66.6	F	20.7	3.2
21	3	2810.	916.	1136.	5100.	916.	1110.	4982.	4982.	618.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3964.	0.	0.	3873.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	420.	180.	4384.	420.	176.	4293.	5488.	112.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1916.	4204.	0.	1500.	4116.	5566.	34.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2288.	2288.	0.	2240.	2240.	3600.	0.	0.	0.	.62	62.	18.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 26.	60.9		15.5	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	370. VEH-HRS	419. PASS-HRS	2898. VEH-HRS	3280. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	241. VEH-HRS	273. PASS-HRS	1559. VEH-HRS	1765. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	611. VEH-HRS	692. PASS-HRS	4487. VEH-HRS	5079. PASS-HRS
TOTAL TRAV DISTANCE =	9742. VEH-MI.	11027. PASS-MI.	112022. VEH-MI.	126808. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		39. MPH.	
AVERAGE DENSITY =	61. VPMPL		43. VPMPL	
TOTAL FUEL =	722. GALLONS		7342. GALLONS	
TOTAL EMISSIONS =	54. KILOGRAMS		502. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1011.	240.93	91.25	1.40	8.62	1.50	11.53

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2704.	168.	2704.	2704.	168.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	13.6	4.8
2	2	1970.	0.	0.	2536.	0.	0.	2536.	4100.	0.	0.	0.	.62	37.	34.0	D	12.9	5.0
3	2	1830.	356.	204.	2892.	356.	204.	3147.	4100.	0.	* 757.	-255.	.77	19.	82.7	F	11.7	5.1
4	2	2010.	0.	0.	2688.	0.	0.	2943.	4100.	0.	** 2010.	-255.	.72	15.	98.5	F	11.2	5.7
5	2	2445.	912.	304.	3600.	912.	304.	3855.	3963.	137.	** 2445.	-255.	.97	36.	54.0	F	14.1	2.8
6	2	1890.	0.	0.	3296.	0.	0.	3551.	4100.	0.	** 1890.	-255.	.87	24.	73.7	F	12.7	3.9
7	2	5320.	528.	692.	3824.	528.	692.	4079.	4100.	0.	** 5320.	-255.	.99	39.	52.1	F	14.2	2.6
8	2	880.	0.	0.	3132.	0.	0.	3387.	3900.	0.	** 880.	-255.	.87	24.	69.7	F	13.6	3.9
9	2	1125.	168.	0.	3300.	168.	0.	3555.	3900.	0.	** 1125.	-255.	.91	28.	62.8	F	20.2	3.4
10	2	6320.	392.	412.	3692.	392.	412.	3947.	4100.	0.	** 6320.	-255.	.96	34.	57.5	F	21.5	2.9
11	2	2050.	0.	0.	3280.	0.	0.	3535.	4100.	0.	** 2050.	-255.	.86	24.	74.3	F	18.9	4.0
12	2	2560.	568.	0.	3848.	568.	0.	4103.	4400.	0.	** 2560.	-255.	.93	31.	67.1	F	16.8	3.2
13	2	1400.	0.	384.	3848.	0.	384.	4103.	4400.	0.	** 1400.	-255.	.93	31.	67.1	F	40.3	3.2
14	2	1320.	0.	0.	3464.	0.	0.	3719.	4400.	0.	** 1320.	-255.	.85	22.	82.8	F	13.2	4.2
15	3	540.	916.	1264.	4380.	916.	1264.	4635.	4948.	652.	** 540.	-255.	.94	31.	49.8	F	13.3	3.1
16	2	1230.	0.	0.	3116.	0.	0.	3371.	4400.	0.	** 1230.	-255.	.77	17.	97.0	F	16.6	5.2
17	2	890.	552.	0.	3668.	552.	0.	3923.	4400.	0.	** 890.	-255.	.89	26.	74.5	F	19.6	3.6
18	2	4840.	176.	636.	3844.	176.	636.	4099.	4400.	0.	** 4840.	-255.	.93	30.	67.3	F	16.8	3.2
19	2	530.	0.	0.	3208.	0.	0.	3463.	3800.	0.	** 530.	-255.	.91	28.	61.3	F	20.1	3.4
20	2	1040.	752.	0.	3960.	752.	0.	4215.	4366.	34.	** 1040.	-255.	.97	35.	60.7	F	21.6	2.9
21	3	2810.	852.	1144.	4812.	852.	1205.	5067.	5067.	533.	0.	0.	1.00	52.	32.8	E	30.3	2.3
22	2	1850.	0.	0.	3668.	0.	0.	3863.	4400.	0.	0.	0.	.88	59.	32.9	D	18.3	3.3
23	3	2390.	308.	196.	3976.	308.	206.	4171.	5534.	66.	0.	0.	.75	62.	22.4	C	24.1	4.8
24	3	960.	0.	1716.	3780.	0.	1500.	3965.	5581.	19.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	2064.	2064.	0.	2165.	2165.	3600.	0.	0.	0.	.60	62.	17.5	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 34.	50.5		16.5	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	308. VEH-HRS	348. PASS-HRS	3206. VEH-HRS	3629. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	262. VEH-HRS	297. PASS-HRS	1821. VEH-HRS	2061. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	570. VEH-HRS	645. PASS-HRS	5056. VEH-HRS	5724. PASS-HRS
TOTAL TRAV DISTANCE =	10613. VEH-MI.	12013. PASS-MI.	122634. VEH-MI.	138822. PASS-MI.
AVERAGE SYSTEM SPEED =	19. MPH.		38. MPH.	
AVERAGE DENSITY =	50. VPMPL		43. VPMPL	
TOTAL FUEL =	741. GALLONS		8083. GALLONS	
TOTAL EMISSIONS =	52. KILOGRAMS		553. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1086.	262.06	99.25	1.52	9.38	1.64	12.54

QUEUE SPLIT SECTION 7

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2992.	136.	2992.	2992.	136.	2992.	4400.	0.	0.	0.	.68	62.	24.1	C	13.6	4.8
2	2	1970.	0.	0.	2856.	0.	0.	2856.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
3	2	1830.	304.	84.	3160.	304.	84.	3196.	4100.	0.	* 376.	-36.	.78	35.	45.4	F	13.0	4.6
4	2	2010.	0.	0.	3076.	0.	0.	3112.	4100.	0.	** 2010.	-36.	.76	17.	91.6	F	11.5	5.3
5	2	2445.	680.	304.	3756.	680.	304.	3792.	4038.	62.	** 2445.	-36.	.94	31.	60.5	F	13.8	3.1
6	2	1890.	0.	0.	3452.	0.	0.	3488.	4100.	0.	** 1890.	-36.	.85	23.	76.2	F	12.4	4.1
7	2	5320.	612.	736.	4064.	612.	736.	4100.	4100.	0.	** 5320.	-36.	1.00	40.	51.3	F	14.2	2.6
8	2	880.	0.	0.	3328.	0.	0.	3398.	3900.	0.	* 316.	-34.	.87	30.	56.1	F	14.3	3.7
9	2	1125.	184.	0.	3512.	184.	0.	3582.	3900.	0.	** 1125.	-34.	.92	29.	61.7	F	20.4	3.3
10	2	6320.	412.	340.	3924.	412.	343.	3994.	4100.	0.	** 6320.	-34.	.97	36.	55.6	F	21.7	2.8
11	2	2050.	0.	0.	3584.	0.	0.	3651.	4100.	0.	** 2050.	-34.	.89	26.	69.6	F	19.6	3.6
12	2	2560.	636.	0.	4220.	636.	0.	4287.	4400.	0.	** 2560.	-34.	.97	36.	59.6	F	17.4	2.8
13	2	1400.	0.	412.	4220.	0.	415.	4287.	4400.	0.	** 1400.	-34.	.97	36.	59.6	F	38.9	2.8
14	2	1320.	0.	0.	3808.	0.	0.	3872.	4400.	0.	** 1320.	-34.	.88	25.	76.6	F	13.8	3.7
15	3	540.	796.	1176.	4604.	796.	1184.	4668.	5008.	592.	** 540.	-34.	.93	31.	51.0	F	13.2	3.2
16	2	1230.	0.	0.	3428.	0.	0.	3484.	4400.	0.	** 1230.	-34.	.79	19.	92.4	F	17.2	4.8
17	2	890.	488.	0.	3916.	488.	0.	3972.	4400.	0.	** 890.	-34.	.90	27.	72.5	F	19.9	3.5
18	2	4840.	176.	608.	4092.	176.	611.	4148.	4400.	0.	** 4840.	-34.	.94	32.	65.3	F	16.9	3.1
19	2	530.	0.	0.	3484.	0.	0.	3537.	3800.	0.	** 530.	-34.	.93	30.	58.2	F	20.7	3.2
20	2	1040.	648.	0.	4132.	648.	0.	4185.	4366.	34.	** 1040.	-34.	.96	34.	62.0	F	21.4	2.9
21	3	2810.	856.	1196.	4988.	856.	1209.	5041.	5041.	559.	0.	0.	1.00	52.	32.6	E	30.3	2.3
22	2	1850.	0.	0.	3792.	0.	0.	3832.	4400.	0.	0.	0.	.87	59.	32.5	D	18.2	3.4
23	3	2390.	272.	140.	4064.	272.	141.	4104.	5534.	66.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	1856.	3924.	0.	1500.	3963.	5582.	18.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	2068.	2068.	0.	2089.	2089.	3600.	0.	0.	0.	.58	62.	16.8	B	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 37. 48.1 16.7 3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	293. VEH-HRS	332. PASS-HRS	3499. VEH-HRS	3961. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	283. VEH-HRS	321. PASS-HRS	2104. VEH-HRS	2382. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	577. VEH-HRS	653. PASS-HRS	5633. VEH-HRS	6377. PASS-HRS
TOTAL TRAV DISTANCE =	10901. VEH-MI.	12340. PASS-MI.	133535. VEH-MI.	151162. PASS-MI.
AVERAGE SYSTEM SPEED =	19. MPH.		38. MPH.	
AVERAGE DENSITY =	48. VPMPL		44. VPMPL	
TOTAL FUEL =	762. GALLONS		8844. GALLONS	
TOTAL EMISSIONS =	53. KILOGRAMS		606. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1179.	283.13	107.24	1.65	10.13	1.77	13.55

QUEUE COLLISION IN SECTION 8 T2 =0.052

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2876.	152.	2876.	2876.	152.	2876.	4400.	0.	0.	0.	.65	62.	23.2	C	13.6	4.8
2	2	1970.	0.	0.	2724.	0.	0.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	13.6	4.8
3	2	1830.	296.	92.	3020.	296.	92.	2992.	4100.	0.	* 173.	28.	.73	54.	27.7	F	13.4	4.8
4	2	2010.	0.	0.	2928.	0.	0.	2900.	4100.	0.	** 2010.	28.	.71	15.	96.9	F	11.1	5.7
5	2	2445.	672.	256.	3600.	672.	256.	3572.	4069.	31.	** 2445.	28.	.88	26.	68.5	F	13.1	3.6
6	2	1890.	0.	0.	3344.	0.	0.	3316.	4100.	0.	** 1890.	28.	.81	21.	80.4	F	12.1	4.5
7	2	5320.	568.	752.	3912.	568.	752.	3884.	4100.	0.	** 5320.	28.	.95	34.	57.6	F	13.9	2.9
8	2	880.	0.	0.	3160.	0.	0.	3132.	3900.	0.	** 880.	216.	.80	21.	76.3	F	12.8	4.6
9	2	1125.	208.	0.	3368.	208.	0.	3340.	3900.	0.	** 1125.	216.	.86	23.	71.6	F	18.8	4.0
10	2	6320.	504.	272.	3872.	504.	285.	3844.	4100.	0.	** 6320.	216.	.94	31.	61.7	F	20.8	3.1
11	2	2050.	0.	0.	3600.	0.	0.	3559.	4100.	0.	** 2050.	216.	.87	24.	73.3	F	19.1	3.9
12	2	2560.	608.	0.	4208.	608.	0.	4167.	4400.	0.	** 2560.	216.	.95	32.	64.5	F	17.0	3.1
13	2	1400.	0.	356.	4208.	0.	371.	4167.	4400.	0.	** 1400.	216.	.95	32.	64.5	F	39.9	3.1
14	2	1320.	0.	0.	3852.	0.	0.	3797.	4400.	0.	** 1320.	216.	.86	24.	79.6	F	13.5	4.0
15	3	540.	816.	1276.	4668.	816.	1320.	4613.	5008.	592.	** 540.	216.	.92	29.	52.5	F	13.1	3.3
16	2	1230.	0.	0.	3392.	0.	0.	3293.	4400.	0.	** 1230.	216.	.75	16.	100.2	F	16.2	5.4
17	2	890.	496.	0.	3888.	496.	0.	3789.	4400.	0.	** 890.	216.	.86	24.	80.0	F	18.9	4.0
18	2	4840.	184.	524.	4072.	184.	539.	3973.	4400.	0.	** 4840.	216.	.90	27.	72.4	F	16.1	3.5
19	2	530.	0.	0.	3548.	0.	0.	3434.	3800.	0.	** 530.	216.	.90	27.	62.5	F	19.9	3.5
20	2	1040.	656.	0.	4204.	656.	0.	4090.	4366.	34.	** 1040.	216.	.94	31.	65.9	F	20.8	3.2
21	3	2810.	892.	1220.	5096.	892.	1193.	4982.	4982.	618.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3876.	0.	0.	3789.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	312.	184.	4188.	312.	180.	4101.	5525.	75.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1756.	4004.	0.	1500.	3921.	5575.	25.	0.	0.	.70	62.	21.1	C	17.2	4.8
25	2	1400.	0.	2248.	2248.	0.	2201.	2201.	3600.	0.	0.	0.	.61	62.	17.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 34.	51.0	16.3	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	312. VEH-HRS	353. PASS-HRS	3811. VEH-HRS	4314. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	302. VEH-HRS	342. PASS-HRS	2406. VEH-HRS	2723. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	613. VEH-HRS	694. PASS-HRS	6246. VEH-HRS	7071. PASS-HRS
TOTAL TRAV DISTANCE =	10536. VEH-MI.	11927. PASS-MI.	144071. VEH-MI.	163088. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		38. MPH.	
AVERAGE DENSITY =	51. VPMPL		44. VPMPL	
TOTAL FUEL =	759. GALLONS		9604. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		661. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1234.	301.70	114.27	1.76	10.80	1.88	14.43

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2632.	156.	2632.	2632.	156.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2476.	0.	0.	2476.	4100.	0.	0.	0.	.60	62.	20.0	C	13.6	4.8
3	2	1830.	348.	96.	2824.	348.	96.	2824.	4100.	0.	0.	0.	.69	59.	23.8	C	13.5	4.8
4	2	2010.	0.	0.	2728.	0.	0.	2799.	4100.	0.	* 1606.	-71.	.68	14.	98.7	F	10.8	6.0
5	2	2445.	684.	400.	3412.	684.	400.	3483.	3988.	112.	** 2445.	-71.	.87	25.	70.5	F	12.8	3.8
6	2	1890.	0.	0.	3012.	0.	0.	3083.	4100.	0.	** 1890.	-71.	.75	17.	92.8	F	11.4	5.4
7	2	5320.	560.	584.	3572.	560.	584.	3643.	4100.	0.	** 5320.	-71.	.89	26.	69.9	F	13.0	3.7
8	2	880.	0.	0.	2988.	0.	0.	3059.	3900.	0.	** 880.	-71.	.78	18.	83.1	F	12.5	4.9
9	2	1125.	224.	0.	3212.	224.	0.	3283.	3900.	0.	** 1125.	-71.	.84	22.	74.0	F	18.4	4.2
10	2	6320.	564.	248.	3776.	564.	248.	3847.	4100.	0.	** 6320.	-71.	.94	31.	61.6	F	20.9	3.1
11	2	2050.	0.	0.	3528.	0.	0.	3599.	4100.	0.	** 2050.	-71.	.88	25.	71.7	F	19.3	3.8
12	2	2560.	540.	0.	4068.	540.	0.	4139.	4400.	0.	** 2560.	-71.	.94	32.	65.7	F	16.9	3.1
13	2	1400.	0.	420.	4068.	0.	420.	4139.	4400.	0.	** 1400.	-71.	.94	32.	65.7	F	40.1	3.1
14	2	1320.	0.	0.	3648.	0.	0.	3719.	4400.	0.	** 1320.	-71.	.85	22.	82.8	F	13.2	4.2
15	3	540.	848.	1336.	4496.	848.	1336.	4567.	5004.	596.	** 540.	-71.	.91	28.	53.6	F	12.9	3.4
16	2	1230.	0.	0.	3160.	0.	0.	3231.	4400.	0.	** 1230.	-71.	.73	16.	102.8	F	15.9	5.6
17	2	890.	544.	0.	3704.	544.	0.	3775.	4400.	0.	** 890.	-71.	.86	23.	80.5	F	18.8	4.0
18	2	4840.	236.	608.	3940.	236.	608.	4011.	4400.	0.	** 4840.	-71.	.91	28.	70.9	F	16.3	3.4
19	2	530.	0.	0.	3332.	0.	0.	3403.	3800.	0.	** 530.	-71.	.90	27.	63.7	F	19.7	3.6
20	2	1040.	688.	0.	4020.	688.	0.	4091.	4366.	34.	** 1040.	-71.	.94	31.	65.8	F	20.8	3.1
21	3	2810.	896.	1288.	4916.	896.	1307.	4987.	4987.	613.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3628.	0.	0.	3680.	4400.	0.	0.	0.	.84	60.	30.6	D	17.9	3.7
23	3	2390.	272.	172.	3900.	272.	174.	3952.	5540.	60.	0.	0.	.71	62.	21.2	C	24.1	4.8
24	3	960.	0.	1704.	3728.	0.	1500.	3778.	5585.	15.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	2024.	2024.	0.	2051.	2051.	3600.	0.	0.	0.	.57	62.	16.5	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 32.	52.0		16.2	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	317. VEH-HRS	359. PASS-HRS	4127. VEH-HRS	4672. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	316. VEH-HRS	357. PASS-HRS	2721. VEH-HRS	3081. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	632. VEH-HRS	716. PASS-HRS	6879. VEH-HRS	7787. PASS-HRS
TOTAL TRAV DISTANCE =	10168. VEH-MI.	11510. PASS-MI.	154239. VEH-MI.	174598. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		37. MPH.	
AVERAGE DENSITY =	52. VPMPL		45. VPMPL	
TOTAL FUEL =	746. GALLONS		10350. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		717. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1291.	315.65	119.55	1.84	11.29	1.97	15.10

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2224.	100.	2224.	2224.	100.	2224.	4400.	0.	0.	0.	.51	62.	17.9	B	13.6	4.8
2	2	1970.	0.	0.	2124.	0.	0.	2124.	4100.	0.	0.	0.	.52	62.	17.1	B	13.6	4.8
3	2	1830.	300.	104.	2424.	300.	104.	2424.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
4	2	2010.	0.	0.	2320.	0.	0.	2320.	4100.	0.	0.	0.	.57	44.	26.1	D	13.2	4.9
5	2	2445.	576.	448.	2896.	576.	448.	2896.	4028.	72.	0.	0.	.72	39.	37.2	E	13.4	4.3
6	2	1890.	0.	0.	2448.	0.	0.	2448.	4100.	0.	0.	0.	.60	22.	55.3	F	12.1	5.1
7	2	5320.	508.	532.	2956.	508.	532.	3654.	4100.	0.	* 3240.	-698.	.89	27.	68.2	F	13.1	3.7
8	2	880.	0.	0.	2424.	0.	0.	3122.	3900.	0.	** 880.	-698.	.80	19.	80.5	F	12.6	4.7
9	2	1125.	192.	0.	2616.	192.	0.	3314.	3900.	0.	** 1125.	-698.	.85	23.	72.7	F	18.6	4.1
10	2	6320.	492.	248.	3108.	492.	248.	3806.	4100.	0.	** 6320.	-698.	.93	30.	63.3	F	20.6	3.2
11	2	2050.	0.	0.	2860.	0.	0.	3558.	4100.	0.	** 2050.	-698.	.87	24.	73.4	F	19.1	3.9
12	2	2560.	544.	0.	3404.	544.	0.	4102.	4400.	0.	** 2560.	-698.	.93	31.	67.2	F	16.8	3.2
13	2	1400.	0.	392.	3404.	0.	392.	4102.	4400.	0.	** 1400.	-698.	.93	31.	67.2	F	40.3	3.2
14	2	1320.	0.	0.	3012.	0.	0.	3710.	4400.	0.	** 1320.	-698.	.84	22.	83.2	F	13.2	4.2
15	3	540.	888.	1228.	3900.	888.	1228.	4598.	4992.	608.	** 540.	-698.	.92	29.	52.3	F	13.1	3.3
16	2	1230.	0.	0.	2672.	0.	0.	3370.	4400.	0.	** 1230.	-698.	.77	17.	97.1	F	16.6	5.2
17	2	890.	636.	0.	3308.	636.	0.	4006.	4400.	0.	** 890.	-698.	.91	28.	71.1	F	20.1	3.4
18	2	4840.	268.	636.	3576.	268.	636.	4274.	4400.	0.	** 4840.	-698.	.97	36.	60.1	F	17.4	2.8
19	2	530.	0.	0.	2940.	0.	0.	3638.	3800.	0.	** 530.	-698.	.96	34.	54.1	F	21.3	3.0
20	2	1040.	604.	0.	3544.	604.	0.	4242.	4378.	22.	** 1040.	-698.	.97	35.	60.3	F	21.6	2.8
21	3	2810.	860.	1188.	4404.	860.	1376.	5102.	5102.	498.	0.	0.	1.00	52.	33.0	E	30.3	2.3
22	2	1850.	0.	0.	3216.	0.	0.	3726.	4400.	0.	0.	0.	.85	60.	31.1	D	18.0	3.6
23	3	2390.	308.	176.	3524.	308.	201.	4034.	5551.	49.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1552.	3348.	0.	1500.	3833.	5590.	10.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1796.	1796.	0.	2056.	2056.	3600.	0.	0.	0.	.57	62.	16.6	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 35.	45.3		16.7	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	279. VEH-HRS	316. PASS-HRS	4407. VEH-HRS	4989. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	331. VEH-HRS	375. PASS-HRS	3053. VEH-HRS	3456. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	611. VEH-HRS	692. PASS-HRS	7490. VEH-HRS	8478. PASS-HRS
TOTAL TRAV DISTANCE =	9860. VEH-MI.	11162. PASS-MI.	164099. VEH-MI.	185760. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		37. MPH.	
AVERAGE DENSITY =	45. VPMPL		45. VPMPL	
TOTAL FUEL =	715. GALLONS		11064. GALLONS	
TOTAL EMISSIONS =	53. KILOGRAMS		770. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1360.	331.38	125.51	1.93	11.86	2.07	15.85

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2148.	72.	2148.	2148.	72.	2148.	4400.	0.	0.	0.	.49	62.	17.3	B	13.6	4.8
2	2	1970.	0.	0.	2076.	0.	0.	2076.	4100.	0.	0.	0.	.51	62.	16.7	B	13.6	4.8
3	2	1830.	324.	120.	2400.	324.	120.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
4	2	2010.	0.	0.	2280.	0.	0.	2280.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
5	2	2445.	452.	332.	2732.	452.	332.	2732.	4100.	0.	0.	0.	.67	62.	22.0	C	13.6	4.8
6	2	1890.	0.	0.	2400.	0.	0.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
7	2	5320.	532.	484.	2932.	532.	484.	2932.	4100.	0.	0.	0.	.72	46.	32.0	D	13.3	4.7
8	2	880.	0.	0.	2448.	0.	0.	2448.	3900.	0.	0.	0.	.63	22.	56.4	F	12.9	5.2
9	2	1125.	188.	0.	2636.	188.	0.	2636.	3900.	0.	0.	0.	.68	22.	61.2	F	17.8	4.7
10	2	6320.	544.	300.	3180.	544.	300.	3672.	4100.	0.	* 5878.	-492.	.90	27.	68.7	F	19.7	3.6
11	2	2050.	0.	0.	2880.	0.	0.	3372.	4100.	0.	** 2050.	-492.	.82	21.	81.0	F	18.0	4.5
12	2	2560.	524.	0.	3404.	524.	0.	3896.	4400.	0.	** 2560.	-492.	.89	26.	75.6	F	15.7	3.7
13	2	1400.	0.	372.	3404.	0.	372.	3896.	4400.	0.	** 1400.	-492.	.89	26.	75.6	F	36.6	3.7
14	2	1320.	0.	0.	3032.	0.	0.	3524.	4400.	0.	** 1320.	-492.	.80	19.	90.8	F	12.6	4.7
15	3	540.	868.	1100.	3900.	868.	1100.	4392.	4976.	624.	** 540.	-492.	.88	26.	57.4	F	12.4	3.7
16	2	1230.	0.	0.	2800.	0.	0.	3292.	4400.	0.	** 1230.	-492.	.75	16.	100.3	F	16.2	5.4
17	2	890.	652.	0.	3452.	652.	0.	3944.	4400.	0.	** 890.	-492.	.90	27.	73.6	F	19.8	3.6
18	2	4840.	236.	580.	3688.	236.	580.	4180.	4400.	0.	** 4840.	-492.	.95	33.	64.0	F	17.0	3.0
19	2	530.	0.	0.	3108.	0.	0.	3600.	3800.	0.	** 530.	-492.	.95	32.	55.7	F	21.1	3.1
20	2	1040.	712.	0.	3820.	712.	0.	4312.	4368.	32.	** 1040.	-492.	.99	38.	56.9	F	21.9	2.7
21	3	2810.	792.	1168.	4612.	792.	1293.	5104.	5104.	496.	0.	0.	1.00	52.	33.0	E	30.3	2.3
22	2	1850.	0.	0.	3444.	0.	0.	3811.	4400.	0.	0.	0.	.87	59.	32.2	D	18.2	3.4
23	3	2390.	272.	120.	3716.	272.	132.	4083.	5553.	47.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1816.	3596.	0.	1500.	3951.	5591.	9.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	1780.	1780.	0.	1956.	1956.	3600.	0.	0.	0.	.54	62.	15.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 37.	41.5		16.7	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	257. VEH-HRS	291. PASS-HRS	4664. VEH-HRS	5280. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	356. VEH-HRS	402. PASS-HRS	3408. VEH-HRS	3858. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	612. VEH-HRS	693. PASS-HRS	8102. VEH-HRS	9172. PASS-HRS
TOTAL TRAV DISTANCE =	9390. VEH-MI.	10629. PASS-MI.	173489. VEH-MI.	196389. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		37. MPH.	
AVERAGE DENSITY =	41. VPMPL		45. VPMPL	
TOTAL FUEL =	696. GALLONS		11760. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		825. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1484.	355.51	134.65	2.07	12.72	2.22	17.01

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1928.	80.	1928.	1928.	80.	1928.	4400.	0.	0.	0.	.44	62.	15.5	B	13.6	4.8
2	2	1970.	0.	0.	1848.	0.	0.	1848.	4100.	0.	0.	0.	.45	62.	14.9	B	13.6	4.8
3	2	1830.	336.	48.	2184.	336.	48.	2184.	4100.	0.	0.	0.	.53	62.	17.6	B	13.6	4.8
4	2	2010.	0.	0.	2136.	0.	0.	2136.	4100.	0.	0.	0.	.52	62.	17.2	B	13.6	4.8
5	2	2445.	632.	308.	2768.	632.	308.	2768.	4076.	24.	0.	0.	.68	62.	22.3	C	13.6	4.8
6	2	1890.	0.	0.	2460.	0.	0.	2460.	4100.	0.	0.	0.	.60	62.	19.8	C	13.6	4.8
7	2	5320.	500.	608.	2960.	500.	608.	2960.	4100.	0.	0.	0.	.72	62.	23.9	C	13.6	4.8
8	2	880.	0.	0.	2352.	0.	0.	2352.	3900.	0.	0.	0.	.60	62.	19.0	C	14.9	4.8
9	2	1125.	192.	0.	2544.	192.	0.	2544.	3900.	0.	0.	0.	.65	62.	20.5	C	19.9	4.8
10	2	6320.	580.	280.	3124.	580.	280.	3124.	4100.	0.	0.	0.	.76	42.	37.2	E	20.0	4.2
11	2	2050.	0.	0.	2844.	0.	0.	3397.	4100.	0.	* 105.	-553.	.83	23.	73.5	F	18.3	4.4
12	2	2560.	544.	0.	3388.	544.	0.	3941.	4400.	0.	** 2560.	-553.	.90	27.	73.8	F	15.9	3.6
13	2	1400.	0.	384.	3388.	0.	384.	3941.	4400.	0.	** 1400.	-553.	.90	27.	73.8	F	37.4	3.6
14	2	1320.	0.	0.	3004.	0.	0.	3557.	4400.	0.	** 1320.	-553.	.81	20.	89.5	F	12.7	4.6
15	3	540.	780.	976.	3784.	780.	976.	4337.	5020.	580.	** 540.	-553.	.86	24.	60.4	F	12.1	4.0
16	2	1230.	0.	0.	2808.	0.	0.	3361.	4400.	0.	** 1230.	-553.	.76	17.	97.5	F	16.5	5.2
17	2	890.	652.	0.	3460.	652.	0.	4013.	4400.	0.	** 890.	-553.	.91	28.	70.8	F	20.2	3.4
18	2	4840.	232.	612.	3692.	232.	612.	4245.	4400.	0.	** 4840.	-553.	.96	35.	61.3	F	17.3	2.9
19	2	530.	0.	0.	3080.	0.	0.	3633.	3800.	0.	** 530.	-553.	.96	33.	54.3	F	21.3	3.0
20	2	1040.	684.	0.	3764.	684.	0.	4317.	4371.	29.	** 1040.	-553.	.99	38.	56.9	F	21.9	2.7
21	3	2810.	812.	1104.	4576.	812.	1237.	5129.	5129.	471.	0.	0.	1.00	52.	33.2	E	30.3	2.3
22	2	1850.	0.	0.	3472.	0.	0.	3891.	4400.	0.	0.	0.	.88	59.	33.3	D	18.4	3.3
23	3	2390.	288.	120.	3760.	288.	134.	4179.	5542.	58.	0.	0.	.75	62.	22.5	C	24.1	4.8
24	3	960.	0.	1772.	3640.	0.	1500.	4046.	5588.	12.	0.	0.	.72	62.	21.8	C	17.2	4.8
25	2	1400.	0.	1868.	1868.	0.	2076.	2076.	3600.	0.	0.	0.	.58	62.	16.7	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 42.	35.3		17.0	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	219. VEH-HRS	248. PASS-HRS	4883. VEH-HRS	5528. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	386. VEH-HRS	437. PASS-HRS	3794. VEH-HRS	4295. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	605. VEH-HRS	685. PASS-HRS	8707. VEH-HRS	9856. PASS-HRS
TOTAL TRAV DISTANCE =	9104. VEH-MI.	10305. PASS-MI.	182592. VEH-MI.	206694. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		37. MPH.	
AVERAGE DENSITY =	35. VPMPL		44. VPMPL	
TOTAL FUEL =	682. GALLONS		12442. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		881. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1601.	385.67	146.07	2.24	13.80	2.41	18.45

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2048.	100.	2048.	2048.	100.	2048.	4400.	0.	0.	0.	.47	62.	16.5	B	13.6	4.8
2	2	1970.	0.	0.	1948.	0.	0.	1948.	4100.	0.	0.	0.	.48	62.	15.7	B	13.6	4.8
3	2	1830.	404.	64.	2352.	404.	64.	2352.	4100.	0.	0.	0.	.57	62.	19.0	C	13.6	4.8
4	2	2010.	0.	0.	2288.	0.	0.	2288.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
5	2	2445.	528.	284.	2816.	528.	284.	2816.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
6	2	1890.	0.	0.	2532.	0.	0.	2532.	4100.	0.	0.	0.	.62	62.	20.4	C	13.6	4.8
7	2	5320.	560.	668.	3092.	560.	668.	3092.	4100.	0.	0.	0.	.75	62.	25.1	C	13.7	4.6
8	2	880.	0.	0.	2424.	0.	0.	2424.	3900.	0.	0.	0.	.62	62.	19.5	C	14.9	4.8
9	2	1125.	200.	0.	2624.	200.	0.	2624.	3900.	0.	0.	0.	.67	62.	21.2	C	19.9	4.8
10	2	6320.	496.	320.	3120.	496.	320.	3120.	4100.	0.	0.	0.	.76	62.	25.3	C	20.1	4.5
11	2	2050.	0.	0.	2800.	0.	0.	2800.	4100.	0.	0.	0.	.68	62.	22.6	C	19.9	4.8
12	2	2560.	692.	0.	3492.	692.	0.	3492.	4400.	0.	0.	0.	.79	53.	33.0	D	17.4	4.1
13	2	1400.	0.	384.	3492.	0.	384.	3492.	4400.	0.	0.	0.	.79	45.	38.8	E	35.3	3.9
14	2	1320.	0.	0.	3108.	0.	0.	3108.	4400.	0.	0.	0.	.71	32.	48.3	F	14.0	4.4
15	3	540.	748.	1176.	3856.	748.	1176.	3856.	5080.	520.	0.	0.	.76	32.	40.2	E	12.5	4.1
16	2	1230.	0.	0.	2680.	0.	0.	2680.	4400.	0.	0.	0.	.61	19.	69.8	F	16.8	5.3
17	2	890.	648.	0.	3328.	648.	0.	3328.	4400.	0.	0.	0.	.76	28.	60.4	F	19.8	3.6
18	2	4840.	256.	636.	3584.	256.	636.	4199.	4400.	0.	* 4749.	-615.	.95	33.	63.2	F	17.1	3.0
19	2	530.	0.	0.	2948.	0.	0.	3563.	3800.	0.	** 530.	-615.	.94	31.	57.2	F	20.8	3.1
20	2	1040.	652.	0.	3600.	652.	0.	4215.	4377.	23.	** 1040.	-615.	.96	34.	61.3	F	21.5	2.9
21	3	2810.	872.	1172.	4472.	872.	1333.	5087.	5087.	513.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	3300.	0.	0.	3754.	4400.	0.	0.	0.	.85	60.	31.5	D	18.1	3.5
23	3	2390.	260.	160.	3560.	260.	181.	4014.	5556.	44.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	1544.	3400.	0.	1500.	3833.	5590.	10.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1856.	1856.	0.	2093.	2093.	3600.	0.	0.	0.	.58	62.	16.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 49.	28.8		17.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	183. VEH-HRS	207. PASS-HRS	5066. VEH-HRS	5735. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	408. VEH-HRS	462. PASS-HRS	4202. VEH-HRS	4756. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	591. VEH-HRS	669. PASS-HRS	9298. VEH-HRS	10525. PASS-HRS
TOTAL TRAV DISTANCE =	9011. VEH-MI.	10201. PASS-MI.	191604. VEH-MI.	216895. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		38. MPH.	
AVERAGE DENSITY =	29. VPMPL		43. VPMPL	
TOTAL FUEL =	684. GALLONS		13127. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		938. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1662.	407.86	154.48	2.37	14.59	2.55	19.51

```
QUEUE SPLIT SECTION 19
QUEUE SPLIT SECTION 18
QUEUE CLEAR SECTION  20 FT=   398
QUEUE CLEAR SECTION  19 FT=   228
QUEUE CLEAR SECTION  18 FT=  1850
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1588.	80.	1588.	1588.	80.	1588.	4400.	0.	0.	0.	.36	62.	12.8	B	13.6	4.8
2	2	1970.	0.	0.	1508.	0.	0.	1508.	4100.	0.	0.	0.	.37	62.	12.2	B	13.6	4.8
3	2	1830.	376.	48.	1884.	376.	48.	1884.	4100.	0.	0.	0.	.46	62.	15.2	B	13.6	4.8
4	2	2010.	0.	0.	1836.	0.	0.	1836.	4100.	0.	0.	0.	.45	62.	14.8	B	13.6	4.8
5	2	2445.	536.	280.	2372.	536.	280.	2372.	4100.	0.	0.	0.	.58	62.	19.1	C	13.6	4.8
6	2	1890.	0.	0.	2092.	0.	0.	2092.	4100.	0.	0.	0.	.51	62.	16.9	B	13.6	4.8
7	2	5320.	592.	544.	2684.	592.	544.	2684.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
8	2	880.	0.	0.	2140.	0.	0.	2140.	3900.	0.	0.	0.	.55	62.	17.3	B	14.9	4.8
9	2	1125.	224.	0.	2364.	224.	0.	2364.	3900.	0.	0.	0.	.61	62.	19.1	C	19.9	4.8
10	2	6320.	604.	312.	2968.	604.	312.	2968.	4100.	0.	0.	0.	.72	62.	23.9	C	19.9	4.8
11	2	2050.	0.	0.	2656.	0.	0.	2656.	4100.	0.	0.	0.	.65	62.	21.4	C	19.9	4.8
12	2	2560.	880.	0.	3536.	880.	0.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	17.6	4.2
13	2	1400.	0.	368.	3536.	0.	368.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	33.2	4.2
14	2	1320.	0.	0.	3168.	0.	0.	3168.	4400.	0.	0.	0.	.72	62.	25.6	C	14.9	4.7
15	3	540.	752.	1160.	3920.	752.	1160.	3920.	5072.	528.	0.	0.	.77	62.	21.1	C	12.6	4.8
16	2	1230.	0.	0.	2760.	0.	0.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	19.9	4.8
17	2	890.	632.	0.	3392.	632.	0.	3392.	4400.	0.	0.	0.	.77	61.	27.6	D	20.2	4.5
18	2	4840.	272.	604.	3664.	272.	604.	3868.	4400.	0.	0.	-204.	.88	31.	63.1	F	16.2	3.8
19	2	530.	0.	0.	3060.	0.	0.	3282.	3800.	0.	0.	-18.	.86	29.	56.6	F	19.5	3.8
20	2	1040.	528.	0.	3588.	528.	0.	3852.	4381.	19.	0.	-42.	.88	31.	62.7	F	19.9	3.6
21	3	2810.	824.	1004.	4412.	824.	1064.	4676.	5180.	420.	0.	0.	.90	58.	27.0	D	26.6	3.1
22	2	1850.	0.	0.	3408.	0.	0.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	17.8	3.9
23	3	2390.	288.	148.	3696.	288.	156.	3900.	5542.	58.	0.	0.	.70	62.	21.0	C	24.1	4.8
24	3	960.	0.	1384.	3548.	0.	1500.	3744.	5583.	17.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	2164.	2164.	0.	2283.	2283.	3600.	0.	0.	0.	.63	62.	18.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES									MAX(V/C) = 0.90	LOWEST LOS = F	AVG = 54.	24.2		17.1	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	150. VEH-HRS	170. PASS-HRS	5216. VEH-HRS	5905. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	414. VEH-HRS	469. PASS-HRS	4616. VEH-HRS	5225. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	564. VEH-HRS	639. PASS-HRS	9862. VEH-HRS	11164. PASS-HRS
TOTAL TRAV DISTANCE =	8056. VEH-MI.	9120. PASS-MI.	199660. VEH-MI.	226015. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		38. MPH.	
AVERAGE DENSITY =	24. VPMPL		42. VPMPL	
TOTAL FUEL =	629. GALLONS		13756. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		993. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1652.	414.14	156.86	2.41	14.82	2.59	19.81

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2356.	60.	2356.	2356.	60.	2356.	4400.	0.	0.	0.	.54	62.	19.0	C	13.6	4.8
2	2	1970.	0.	0.	2296.	0.	0.	2296.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
3	2	1830.	396.	76.	2692.	396.	76.	2692.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
4	2	2010.	0.	0.	2616.	0.	0.	2616.	4100.	0.	0.	0.	.64	62.	21.1	C	13.6	4.8
5	2	2445.	528.	356.	3144.	528.	356.	3144.	4100.	0.	0.	0.	.77	62.	25.6	C	13.7	4.5
6	2	1890.	0.	0.	2788.	0.	0.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
7	2	5320.	568.	548.	3356.	568.	548.	3356.	4100.	0.	0.	0.	.82	61.	27.7	D	13.9	4.0
8	2	880.	0.	0.	2808.	0.	0.	2808.	3900.	0.	0.	0.	.72	62.	22.6	C	14.9	4.8
9	2	1125.	224.	0.	3032.	224.	0.	3032.	3900.	0.	0.	0.	.78	62.	24.5	C	19.9	4.8
10	2	6320.	556.	264.	3588.	556.	264.	3588.	4100.	0.	0.	0.	.88	59.	30.5	D	21.2	3.3
11	2	2050.	0.	0.	3324.	0.	0.	3324.	4100.	0.	0.	0.	.81	61.	27.3	D	20.5	4.1
12	2	2560.	772.	0.	4096.	772.	0.	4096.	4400.	0.	0.	0.	.93	56.	36.4	E	19.0	2.7
13	2	1400.	0.	408.	4096.	0.	408.	4096.	4400.	0.	0.	0.	.93	56.	36.4	E	37.0	2.7
14	2	1320.	0.	0.	3688.	0.	0.	3688.	4400.	0.	0.	0.	.84	60.	30.7	D	15.5	3.7
15	3	540.	828.	1172.	4516.	828.	1172.	4516.	4988.	612.	0.	0.	.91	62.	24.3	C	12.6	4.8
16	2	1230.	0.	0.	3344.	0.	0.	3344.	4400.	0.	0.	0.	.76	62.	27.1	D	20.1	4.5
17	2	890.	708.	0.	4052.	708.	0.	4052.	4400.	0.	0.	0.	.92	57.	35.7	E	21.8	2.8
18	2	4840.	256.	680.	4308.	256.	680.	4308.	4400.	0.	0.	0.	.98	53.	40.5	E	19.7	2.4
19	2	530.	0.	0.	3628.	0.	0.	3628.	3800.	0.	0.	0.	.95	55.	33.1	D	22.4	2.4
20	2	1040.	556.	0.	4184.	556.	0.	4184.	4373.	27.	0.	0.	.96	55.	38.2	E	22.4	2.4
21	3	2810.	860.	1056.	5044.	860.	1056.	5044.	5078.	522.	0.	0.	.99	52.	32.3	D	30.0	2.3
22	2	1850.	0.	0.	3988.	0.	0.	3988.	4400.	0.	0.	0.	.91	58.	34.7	D	18.6	3.0
23	3	2390.	268.	124.	4256.	268.	124.	4256.	5536.	64.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1584.	4132.	0.	1500.	4132.	5577.	23.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2548.	2548.	0.	2548.	2548.	3600.	0.	0.	0.	.71	62.	20.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.99		LOWEST LOS = E	AVG = 59.	27.0		17.5	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	168. VEH-HRS	191. PASS-HRS	5384. VEH-HRS	6095. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	416. VEH-HRS	470. PASS-HRS	5031. VEH-HRS	5696. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	584. VEH-HRS	661. PASS-HRS	10446. VEH-HRS	11825. PASS-HRS
TOTAL TRAV DISTANCE =	9892. VEH-MI.	11197. PASS-MI.	209552. VEH-MI.	237213. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		39. MPH.	
AVERAGE DENSITY =	27. VPMPL		42. VPMPL	
TOTAL FUEL =	722. GALLONS		14478. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		1050. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1673.	415.53	157.38	2.42	14.87	2.59	19.88

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2168.	44.	2168.	2168.	44.	2168.	4400.	0.	0.	0.	.49	62.	17.5	B	13.6	4.8
2	2	1970.	0.	0.	2124.	0.	0.	2124.	4100.	0.	0.	0.	.52	62.	17.1	B	13.6	4.8
3	2	1830.	472.	52.	2596.	472.	52.	2596.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
4	2	2010.	0.	0.	2544.	0.	0.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
5	2	2445.	604.	328.	3148.	604.	328.	3148.	4074.	26.	0.	0.	.77	61.	25.6	C	13.7	4.5
6	2	1890.	0.	0.	2820.	0.	0.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
7	2	5320.	532.	476.	3352.	532.	476.	3352.	4100.	0.	0.	0.	.82	61.	27.6	D	13.9	4.0
8	2	880.	0.	0.	2876.	0.	0.	2876.	3900.	0.	0.	0.	.74	62.	23.2	C	14.9	4.8
9	2	1125.	208.	0.	3084.	208.	0.	3084.	3900.	0.	0.	0.	.79	61.	25.2	C	20.3	4.3
10	2	6320.	520.	280.	3604.	520.	280.	3604.	4100.	0.	0.	0.	.88	59.	30.7	D	21.3	3.3
11	2	2050.	0.	0.	3324.	0.	0.	3324.	4100.	0.	0.	0.	.81	61.	27.3	D	20.5	4.1
12	2	2560.	604.	0.	3928.	604.	0.	3928.	4400.	0.	0.	0.	.89	58.	33.8	D	18.5	3.2
13	2	1400.	0.	392.	3928.	0.	392.	3928.	4400.	0.	0.	0.	.89	58.	33.8	D	35.5	3.2
14	2	1320.	0.	0.	3536.	0.	0.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	15.3	4.2
15	3	540.	860.	1124.	4396.	860.	1124.	4396.	4960.	640.	0.	0.	.89	62.	23.6	C	12.6	4.8
16	2	1230.	0.	0.	3272.	0.	0.	3272.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
17	2	890.	696.	0.	3968.	696.	0.	3968.	4400.	0.	0.	0.	.90	58.	34.4	D	21.5	3.1
18	2	4840.	280.	536.	4248.	280.	536.	4174.	4400.	0.	* 628.	74.	.95	53.	39.1	F	19.4	2.4
19	2	530.	0.	0.	3712.	0.	0.	3638.	3800.	0.	** 530.	74.	.96	43.	42.5	F	22.1	2.6
20	2	1040.	552.	0.	4264.	552.	0.	4190.	4373.	27.	** 1040.	74.	.96	37.	56.7	F	21.6	2.8
21	3	2810.	876.	1076.	5140.	876.	1060.	5066.	5066.	534.	0.	0.	1.00	52.	32.8	E	30.3	2.3
22	2	1850.	0.	0.	4064.	0.	0.	4005.	4400.	0.	0.	0.	.91	57.	34.9	D	18.7	3.0
23	3	2390.	292.	124.	4356.	292.	122.	4297.	5532.	68.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1412.	4232.	0.	1500.	4175.	5575.	25.	0.	0.	.75	62.	22.4	C	17.2	4.8
25	2	1400.	0.	2820.	2820.	0.	2782.	2782.	3600.	0.	0.	0.	.77	62.	22.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	26.8		17.5	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	167. VEH-HRS	190. PASS-HRS	5552. VEH-HRS	6285. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	415. VEH-HRS	470. PASS-HRS	5446. VEH-HRS	6165. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	582. VEH-HRS	659. PASS-HRS	11028. VEH-HRS	12484. PASS-HRS
TOTAL TRAV DISTANCE =	9721. VEH-MI.	11005. PASS-MI.	219273. VEH-MI.	248217. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		39. MPH.	
AVERAGE DENSITY =	27. VPMPL		41. VPMPL	
TOTAL FUEL =	711. GALLONS		15189. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		1107. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1646.	414.81	157.11	2.41	14.84	2.59	19.85

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2120.	52.	2120.	2120.	52.	2120.	4400.	0.	0.	0.	.48	62.	17.1	B	13.6	4.8
2	2	1970.	0.	0.	2068.	0.	0.	2068.	4100.	0.	0.	0.	.50	62.	16.7	B	13.6	4.8
3	2	1830.	588.	112.	2656.	588.	112.	2656.	4087.	13.	0.	0.	.65	62.	21.4	C	13.6	4.8
4	2	2010.	0.	0.	2544.	0.	0.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
5	2	2445.	612.	376.	3156.	612.	376.	3156.	4039.	61.	0.	0.	.78	61.	25.7	C	13.8	4.4
6	2	1890.	0.	0.	2780.	0.	0.	2780.	4100.	0.	0.	0.	.68	62.	22.4	C	13.6	4.8
7	2	5320.	580.	516.	3360.	580.	516.	3360.	4100.	0.	0.	0.	.82	61.	27.7	D	14.0	4.0
8	2	880.	0.	0.	2844.	0.	0.	2844.	3900.	0.	0.	0.	.73	62.	22.9	C	14.9	4.8
9	2	1125.	196.	0.	3040.	196.	0.	3040.	3900.	0.	0.	0.	.78	62.	24.5	C	19.9	4.8
10	2	6320.	584.	316.	3624.	584.	316.	3624.	4100.	0.	0.	0.	.88	59.	31.0	D	21.3	3.3
11	2	2050.	0.	0.	3308.	0.	0.	3308.	4100.	0.	0.	0.	.81	61.	27.2	D	20.5	4.1
12	2	2560.	592.	0.	3900.	592.	0.	3900.	4400.	0.	0.	0.	.89	58.	33.4	D	18.4	3.2
13	2	1400.	0.	444.	3900.	0.	444.	3900.	4400.	0.	0.	0.	.89	58.	33.4	D	35.3	3.2
14	2	1320.	0.	0.	3456.	0.	0.	3456.	4400.	0.	0.	0.	.79	61.	28.2	D	15.1	4.4
15	3	540.	836.	1172.	4292.	836.	1172.	4292.	4992.	608.	0.	0.	.86	62.	23.1	C	12.6	4.8
16	2	1230.	0.	0.	3120.	0.	0.	3120.	4400.	0.	0.	0.	.71	62.	25.2	C	20.0	4.8
17	2	890.	692.	0.	3812.	692.	0.	3812.	4400.	0.	0.	0.	.87	59.	32.2	D	21.1	3.4
18	2	4840.	268.	612.	4080.	268.	612.	4080.	4400.	0.	0.	0.	.93	55.	36.8	E	18.9	2.8
19	2	530.	0.	0.	3468.	0.	0.	3468.	3800.	0.	0.	0.	.91	40.	43.2	E	21.2	3.1
20	2	1040.	576.	0.	4044.	576.	0.	4123.	4372.	28. *	368.	-79.	.94	34.	61.4	F	21.1	3.1
21	3	2810.	884.	1208.	4928.	884.	1227.	5007.	5007.	593.	0.	0.	1.00	52.	32.4	E	30.3	2.3
22	2	1850.	0.	0.	3720.	0.	0.	3780.	4400.	0.	0.	0.	.86	59.	31.8	D	18.1	3.5
23	3	2390.	244.	176.	3964.	244.	179.	4024.	5544.	56.	0.	0.	.73	62.	21.6	C	24.1	4.8
24	3	960.	0.	1492.	3788.	0.	1500.	3845.	5583.	17.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2296.	2296.	0.	2331.	2331.	3600.	0.	0.	0.	.65	62.	18.8	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	26.2		17.4	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	164. VEH-HRS	185. PASS-HRS	5715. VEH-HRS	6470. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	412. VEH-HRS	466. PASS-HRS	5858. VEH-HRS	6631. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	575. VEH-HRS	651. PASS-HRS	11604. VEH-HRS	13135. PASS-HRS
TOTAL TRAV DISTANCE =	9514. VEH-MI.	10769. PASS-MI.	228787. VEH-MI.	258986. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		40. MPH.	
AVERAGE DENSITY =	26. VPMPL		40. VPMPL	
TOTAL FUEL =	702. GALLONS		15890. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		1163. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1649.	411.91	156.01	2.40	14.74	2.57	19.71

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	132.	150.	15.	17.	147.	167.	8200.	9282.	55.7	499.	2.	27.	11.	6:00
2	166.	188.	44.	50.	210.	238.	10003.	11323.	47.6	604.	2.	27.	12.	6:15
3	219.	248.	74.	84.	293.	331.	11441.	12951.	39.1	686.	2.	26.	12.	6:30
4	240.	271.	109.	123.	348.	394.	11228.	12710.	32.2	704.	3.	28.	12.	6:45
5	247.	280.	146.	165.	393.	444.	9668.	10944.	24.6	631.	3.	29.	11.	7:00
6	255.	288.	171.	194.	426.	482.	10063.	11391.	23.6	642.	3.	28.	11.	7:15
7	283.	321.	178.	201.	461.	522.	10776.	12198.	23.4	706.	3.	32.	12.	7:30
8	300.	340.	186.	211.	487.	551.	10435.	11812.	21.4	703.	4.	33.	11.	7:45
9	344.	389.	204.	231.	548.	621.	10103.	11437.	18.4	717.	4.	37.	11.	8:00
10	342.	387.	221.	250.	563.	637.	10365.	11733.	18.4	730.	4.	37.	11.	8:15
11	370.	419.	241.	273.	611.	692.	9742.	11027.	15.9	722.	4.	38.	11.	8:30
12	308.	348.	262.	297.	570.	645.	10613.	12013.	18.6	741.	4.	36.	11.	8:45
13	293.	332.	283.	321.	577.	653.	10901.	12340.	18.9	762.	4.	37.	12.	9:00
14	312.	353.	302.	342.	613.	694.	10536.	11927.	17.2	759.	4.	39.	12.	9:15
15	317.	359.	316.	357.	632.	716.	10168.	11510.	16.1	746.	5.	39.	12.	9:30
16	279.	316.	331.	375.	611.	692.	9860.	11162.	16.1	715.	4.	38.	12.	9:45
17	257.	291.	356.	402.	612.	693.	9390.	10629.	15.3	696.	4.	39.	12.	10:00
18	219.	248.	386.	437.	605.	685.	9104.	10305.	15.1	682.	4.	39.	12.	10:15
19	183.	207.	408.	462.	591.	669.	9011.	10201.	15.3	684.	4.	40.	13.	10:30
20	150.	170.	414.	469.	564.	639.	8056.	9120.	14.3	629.	4.	39.	12.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	168.	191.	416.	470.	584.	661.	9892.	11197.	16.9	722.	4.	39.	14.	11:00
22	167.	190.	415.	470.	582.	659.	9721.	11005.	16.7	711.	4.	39.	14.	11:15
23	164.	185.	412.	466.	575.	651.	9514.	10769.	16.5	702.	4.	39.	14.	11:30
TOTAL	5715.	6470.	5888.	6665.	11604.	13135.	228787.	258986.	40.0	15890.	83.	804.	276.	

Existing (2019)
Northbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2236.	72.	2236.	2236.	72.	2236.	4100.	0.	0.	0.	.55	62.	18.0	C	13.6	4.8
2	2	1970.	0.	0.	2164.	0.	0.	2164.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
3	2	1830.	240.	112.	2404.	240.	112.	2404.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
4	2	2010.	0.	0.	2292.	0.	0.	2292.	4400.	0.	0.	0.	.52	62.	18.5	C	13.6	4.8
5	2	2445.	748.	364.	3040.	748.	364.	3040.	4003.	97.	0.	0.	.76	62.	24.5	C	13.6	4.8
6	2	1890.	0.	0.	2676.	0.	0.	2676.	4400.	0.	0.	0.	.61	62.	21.6	C	13.6	4.8
7	2	5320.	444.	588.	3120.	444.	588.	3120.	4100.	0.	0.	0.	.76	62.	25.3	C	13.7	4.5
8	2	880.	0.	0.	2532.	0.	0.	2532.	4400.	0.	0.	0.	.58	62.	20.4	C	14.9	4.8
9	2	1125.	192.	0.	2724.	192.	0.	2724.	4400.	0.	0.	0.	.62	62.	22.0	C	19.9	4.8
10	2	6320.	524.	364.	3248.	524.	364.	3248.	4250.	0.	0.	0.	.76	62.	26.4	D	20.2	4.5
11	2	2050.	0.	0.	2884.	0.	0.	2884.	4100.	0.	0.	0.	.70	62.	23.3	C	19.9	4.8
12	2	2560.	1104.	0.	3988.	1104.	0.	3988.	4400.	0.	0.	0.	.91	58.	34.7	D	18.6	3.0
13	2	1400.	0.	376.	3988.	0.	376.	3988.	4400.	0.	0.	0.	.91	58.	34.7	D	36.0	3.0
14	2	1320.	0.	0.	3612.	0.	0.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	15.4	3.9
15	3	540.	680.	1248.	4292.	680.	1248.	4292.	5116.	484.	0.	0.	.84	62.	23.1	C	12.6	4.8
16	2	1230.	0.	0.	3044.	0.	0.	3044.	4400.	0.	0.	0.	.69	62.	24.5	C	19.9	4.8
17	2	890.	616.	0.	3660.	616.	0.	3660.	4400.	0.	0.	0.	.83	60.	30.4	D	20.8	3.8
18	2	4840.	252.	700.	3912.	252.	700.	3912.	4400.	0.	0.	0.	.89	58.	33.5	D	18.4	3.2
19	2	530.	0.	0.	3212.	0.	0.	3212.	3800.	0.	0.	0.	.85	60.	26.8	D	21.0	3.6
20	2	1040.	364.	0.	3576.	364.	0.	3576.	4387.	13.	0.	0.	.82	61.	29.5	D	20.6	4.0
21	3	2810.	500.	708.	4076.	500.	708.	4076.	5558.	42.	0.	0.	.73	62.	21.9	C	24.1	4.8
22	2	1850.	0.	0.	3368.	0.	0.	3368.	4400.	0.	0.	0.	.77	62.	27.4	D	17.4	4.5
23	3	2390.	304.	96.	3672.	304.	96.	3672.	5536.	64.	0.	0.	.66	62.	19.7	C	24.1	4.8
24	3	960.	0.	1464.	3576.	0.	1464.	3576.	5583.	17.	0.	0.	.64	62.	19.2	C	17.2	4.8
25	2	1400.	0.	2112.	2112.	0.	2112.	2112.	3600.	0.	0.	0.	.59	62.	17.0	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.91		LOWEST LOS = D	AVG = 61.	24.8		17.5	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	131. VEH-HRS	163. PASS-HRS	131. VEH-HRS	163. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	131. VEH-HRS	163. PASS-HRS	131. VEH-HRS	163. PASS-HRS
TOTAL TRAV DISTANCE =	7991. VEH-MI.	9941. PASS-MI.	7991. VEH-MI.	9941. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		25. VPMPL	
TOTAL FUEL =	458. GALLONS		458. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		34. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2356.	60.	2356.	2356.	60.	2356.	4100.	0.	0.	0.	.57	62.	19.0	C	13.6	4.8
2	2	1970.	0.	0.	2296.	0.	0.	2296.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
3	2	1830.	392.	108.	2688.	392.	108.	2688.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
4	2	2010.	0.	0.	2580.	0.	0.	2580.	4400.	0.	0.	0.	.59	62.	20.8	C	13.6	4.8
5	2	2445.	436.	384.	3016.	436.	384.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	13.6	4.8
6	2	1890.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
7	2	5320.	520.	576.	3152.	520.	576.	3152.	4100.	0.	0.	0.	.77	61.	25.6	C	13.7	4.5
8	2	880.	0.	0.	2576.	0.	0.	2576.	4400.	0.	0.	0.	.59	62.	20.8	C	14.9	4.8
9	2	1125.	160.	0.	2736.	160.	0.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	19.9	4.8
10	2	6320.	572.	320.	3308.	572.	320.	3308.	4250.	0.	0.	0.	.78	61.	27.0	D	20.2	4.4
11	2	2050.	0.	0.	2988.	0.	0.	2988.	4100.	0.	0.	0.	.73	62.	24.1	C	19.9	4.8
12	2	2560.	1016.	0.	4004.	1016.	0.	4004.	4400.	0.	0.	0.	.91	57.	34.9	D	18.7	3.0
13	2	1400.	0.	468.	4004.	0.	468.	4004.	4400.	0.	0.	0.	.91	57.	34.9	D	36.1	3.0
14	2	1320.	0.	0.	3536.	0.	0.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	15.3	4.2
15	3	540.	844.	1212.	4380.	844.	1212.	4380.	4992.	608.	0.	0.	.88	62.	23.5	C	12.6	4.8
16	2	1230.	0.	0.	3168.	0.	0.	3168.	4400.	0.	0.	0.	.72	62.	25.6	C	20.0	4.7
17	2	890.	668.	0.	3836.	668.	0.	3836.	4400.	0.	0.	0.	.87	59.	32.5	D	21.2	3.4
18	2	4840.	292.	656.	4128.	292.	656.	4128.	4400.	0.	0.	0.	.94	56.	37.0	E	19.1	2.6
19	2	530.	0.	0.	3472.	0.	0.	3472.	3800.	0.	0.	0.	.91	57.	30.4	D	21.7	2.9
20	2	1040.	348.	0.	3820.	348.	0.	3820.	4386.	14.	0.	0.	.87	59.	32.4	D	21.2	3.4
21	3	2810.	532.	792.	4352.	532.	792.	4352.	5512.	88.	0.	0.	.79	62.	23.4	C	24.1	4.8
22	2	1850.	0.	0.	3560.	0.	0.	3560.	4400.	0.	0.	0.	.81	61.	29.3	D	17.6	4.1
23	3	2390.	316.	228.	3876.	316.	228.	3876.	5536.	64.	0.	0.	.70	62.	20.8	C	24.1	4.8
24	3	960.	0.	1480.	3648.	0.	1480.	3648.	5581.	19.	0.	0.	.65	62.	19.6	C	17.2	4.8
25	2	1400.	0.	2168.	2168.	0.	2168.	2168.	3600.	0.	0.	0.	.60	62.	17.5	B	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.94	LOWEST LOS = E		AVG = 60.	25.9	17.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	170. PASS-HRS	268. VEH-HRS	334. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	137. VEH-HRS	170. PASS-HRS	268. VEH-HRS	334. PASS-HRS
TOTAL TRAV DISTANCE =	8274. VEH-MI.	10292. PASS-MI.	16265. VEH-MI.	20234. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	26. VPMPL		25. VPMPL	
TOTAL FUEL =	471. GALLONS		929. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		69. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2584.	104.	2584.	2584.	104.	2584.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
2	2	1970.	0.	0.	2480.	0.	0.	2480.	4100.	0.	0.	0.	.60	62.	20.0	C	13.6	4.8
3	2	1830.	356.	132.	2836.	356.	132.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
4	2	2010.	0.	0.	2704.	0.	0.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	13.6	4.8
5	2	2445.	392.	360.	3096.	392.	360.	3096.	4100.	0.	0.	0.	.76	62.	25.1	C	13.7	4.6
6	2	1890.	0.	0.	2736.	0.	0.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	13.6	4.8
7	2	5320.	544.	448.	3280.	544.	448.	3280.	4100.	0.	0.	0.	.80	61.	26.9	D	13.8	4.2
8	2	880.	0.	0.	2832.	0.	0.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	14.9	4.8
9	2	1125.	180.	0.	3012.	180.	0.	3012.	4400.	0.	0.	0.	.68	62.	24.3	C	19.9	4.8
10	2	6320.	552.	300.	3564.	552.	300.	3564.	4250.	0.	0.	0.	.84	60.	29.7	D	20.9	3.7
11	2	2050.	0.	0.	3264.	0.	0.	3264.	4100.	0.	0.	0.	.80	61.	26.7	D	20.4	4.2
12	2	2560.	772.	0.	4036.	772.	0.	4036.	4400.	0.	0.	0.	.92	57.	35.4	E	18.8	2.9
13	2	1400.	0.	480.	4036.	0.	480.	4036.	4400.	0.	0.	0.	.92	57.	35.4	E	36.4	2.9
14	2	1320.	0.	0.	3556.	0.	0.	3556.	4400.	0.	0.	0.	.81	61.	29.2	D	15.3	4.1
15	3	540.	788.	1324.	4344.	788.	1324.	4344.	5052.	548.	0.	0.	.86	62.	23.4	C	12.6	4.8
16	2	1230.	0.	0.	3020.	0.	0.	3020.	4400.	0.	0.	0.	.69	62.	24.4	C	19.9	4.8
17	2	890.	628.	0.	3648.	628.	0.	3648.	4400.	0.	0.	0.	.83	60.	30.2	D	20.7	3.8
18	2	4840.	224.	716.	3872.	224.	716.	3872.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
19	2	530.	0.	0.	3156.	0.	0.	3156.	3800.	0.	0.	0.	.83	60.	26.2	D	20.8	3.8
20	2	1040.	380.	0.	3536.	380.	0.	3536.	4387.	13.	0.	0.	.81	61.	29.0	D	20.5	4.1
21	3	2810.	660.	712.	4196.	660.	712.	4196.	5503.	97.	0.	0.	.76	62.	22.6	C	24.1	4.8
22	2	1850.	0.	0.	3484.	0.	0.	3484.	4400.	0.	0.	0.	.79	61.	28.5	D	17.5	4.3
23	3	2390.	344.	104.	3828.	344.	104.	3828.	5523.	77.	0.	0.	.69	62.	20.6	C	24.1	4.8
24	3	960.	0.	1588.	3724.	0.	1500.	3724.	5577.	23.	0.	0.	.67	62.	20.0	C	17.2	4.8
25	2	1400.	0.	2136.	2136.	0.	2136.	2136.	3600.	0.	0.	0.	.59	62.	17.2	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.92		LOWEST LOS = E	AVG = 61.	26.3		17.5	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	173. PASS-HRS	407. VEH-HRS	506. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	3. VEH-HRS	3. PASS-HRS	3. VEH-HRS	3. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	141. VEH-HRS	176. PASS-HRS	410. VEH-HRS	510. PASS-HRS
TOTAL TRAV DISTANCE =	8409. VEH-MI.	10461. PASS-MI.	24675. VEH-MI.	30695. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		61. MPH.	
AVERAGE DENSITY =	26. VPMPL		26. VPMPL	
TOTAL FUEL =	482. GALLONS		1410. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		104. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	22.	2.75	1.04	0.02	0.10	0.02	0.13

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2380.	108.	2380.	2380.	108.	2380.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
2	2	1970.	0.	0.	2272.	0.	0.	2272.	4100.	0.	0.	0.	.55	62.	18.3	C	13.6	4.8
3	2	1830.	276.	152.	2548.	276.	152.	2548.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
4	2	2010.	0.	0.	2396.	0.	0.	2396.	4400.	0.	0.	0.	.54	62.	19.3	C	13.6	4.8
5	2	2445.	516.	420.	2912.	516.	420.	2912.	4083.	17.	0.	0.	.71	62.	23.5	C	13.6	4.8
6	2	1890.	0.	0.	2492.	0.	0.	2492.	4400.	0.	0.	0.	.57	62.	20.1	C	13.6	4.8
7	2	5320.	532.	440.	3024.	532.	440.	3024.	4100.	0.	0.	0.	.74	62.	24.4	C	13.6	4.8
8	2	880.	0.	0.	2584.	0.	0.	2584.	4400.	0.	0.	0.	.59	62.	20.8	C	14.9	4.8
9	2	1125.	172.	0.	2756.	172.	0.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	19.9	4.8
10	2	6320.	484.	348.	3240.	484.	348.	3240.	4250.	0.	0.	0.	.76	62.	26.3	D	20.1	4.5
11	2	2050.	0.	0.	2892.	0.	0.	2892.	4100.	0.	0.	0.	.71	62.	23.3	C	19.9	4.8
12	2	2560.	736.	0.	3628.	736.	0.	3628.	4400.	0.	0.	0.	.82	60.	30.0	D	17.8	3.9
13	2	1400.	0.	452.	3628.	0.	452.	3628.	4400.	0.	0.	0.	.82	60.	30.0	D	33.7	3.9
14	2	1320.	0.	0.	3176.	0.	0.	3176.	4400.	0.	0.	0.	.72	62.	25.7	C	14.9	4.7
15	3	540.	960.	1436.	4136.	960.	1436.	4136.	4972.	628.	0.	0.	.83	62.	22.2	C	12.6	4.8
16	2	1230.	0.	0.	2700.	0.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	19.9	4.8
17	2	890.	560.	0.	3260.	560.	0.	3260.	4400.	0.	0.	0.	.74	62.	26.4	D	20.1	4.7
18	2	4840.	228.	796.	3488.	228.	796.	3488.	4400.	0.	0.	0.	.79	61.	28.5	D	17.5	4.3
19	2	530.	0.	0.	2692.	0.	0.	2692.	3800.	0.	0.	0.	.71	62.	21.7	C	19.9	4.8
20	2	1040.	452.	0.	3144.	452.	0.	3144.	4390.	10.	0.	0.	.72	62.	25.4	C	20.0	4.7
21	3	2810.	572.	804.	3716.	572.	804.	3716.	5506.	94.	0.	0.	.67	62.	20.0	C	24.1	4.8
22	2	1850.	0.	0.	2912.	0.	0.	2912.	4400.	0.	0.	0.	.66	62.	23.5	C	17.2	4.8
23	3	2390.	584.	228.	3496.	584.	228.	3496.	5524.	76.	0.	0.	.63	62.	18.8	C	24.1	4.8
24	3	960.	0.	1612.	3268.	0.	1500.	3268.	5592.	8.	0.	0.	.58	62.	17.6	B	17.2	4.8
25	2	1400.	0.	1656.	1656.	0.	1656.	1656.	3600.	0.	0.	0.	.46	62.	13.4	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.83 LOWEST LOS = D AVG = 62. 23.2 17.1 4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	123. VEH-HRS	153. PASS-HRS	530. VEH-HRS	659. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	9. VEH-HRS	11. PASS-HRS	12. VEH-HRS	15. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	132. VEH-HRS	164. PASS-HRS	541. VEH-HRS	673. PASS-HRS
TOTAL TRAV DISTANCE =	7575. VEH-MI.	9423. PASS-MI.	32249. VEH-MI.	40118. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		25. VPMPL	
TOTAL FUEL =	446. GALLONS		1856. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		139. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	50.	9.00	3.41	0.05	0.32	0.06	0.43

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2480.	104.	2480.	2480.	104.	2480.	4100.	0.	0.	0.	.60	62.	20.0	C	13.6	4.8
2	2	1970.	0.	0.	2376.	0.	0.	2376.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
3	2	1830.	252.	200.	2628.	252.	200.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
4	2	2010.	0.	0.	2428.	0.	0.	2428.	4400.	0.	0.	0.	.55	62.	19.6	C	13.6	4.8
5	2	2445.	716.	316.	3144.	716.	316.	3144.	4039.	61.	0.	0.	.78	61.	25.6	C	13.7	4.4
6	2	1890.	0.	0.	2828.	0.	0.	2828.	4400.	0.	0.	0.	.64	62.	22.8	C	13.6	4.8
7	2	5320.	576.	620.	3404.	576.	620.	3404.	4100.	0.	0.	0.	.83	60.	28.2	D	14.0	3.8
8	2	880.	0.	0.	2784.	0.	0.	2784.	4400.	0.	0.	0.	.63	62.	22.5	C	14.9	4.8
9	2	1125.	220.	0.	3004.	220.	0.	3004.	4400.	0.	0.	0.	.68	62.	24.2	C	19.9	4.8
10	2	6320.	460.	360.	3464.	460.	360.	3464.	4250.	0.	0.	0.	.82	61.	28.5	D	20.6	4.0
11	2	2050.	0.	0.	3104.	0.	0.	3104.	4100.	0.	0.	0.	.76	62.	25.2	C	20.1	4.6
12	2	2560.	636.	0.	3740.	636.	0.	3740.	4400.	0.	0.	0.	.85	60.	31.3	D	18.1	3.6
13	2	1400.	0.	448.	3740.	0.	448.	3740.	4400.	0.	0.	0.	.85	60.	31.3	D	34.3	3.6
14	2	1320.	0.	0.	3292.	0.	0.	3292.	4400.	0.	0.	0.	.75	62.	26.7	D	15.0	4.6
15	3	540.	1048.	1176.	4340.	1048.	1176.	4340.	4836.	764.	0.	0.	.90	62.	23.3	C	12.6	4.8
16	2	1230.	0.	0.	3164.	0.	0.	3164.	4400.	0.	0.	0.	.72	62.	25.6	C	20.0	4.7
17	2	890.	516.	0.	3680.	516.	0.	3680.	4400.	0.	0.	0.	.84	60.	30.6	D	20.8	3.7
18	2	4840.	180.	692.	3860.	180.	692.	3860.	4400.	0.	0.	0.	.88	59.	32.8	D	18.3	3.3
19	2	530.	0.	0.	3168.	0.	0.	3168.	3800.	0.	0.	0.	.83	60.	26.3	D	20.8	3.8
20	2	1040.	364.	0.	3532.	364.	0.	3532.	4388.	12.	0.	0.	.80	61.	29.0	D	20.5	4.1
21	3	2810.	660.	684.	4192.	660.	684.	4192.	5505.	95.	0.	0.	.76	62.	22.5	C	24.1	4.8
22	2	1850.	0.	0.	3508.	0.	0.	3508.	4400.	0.	0.	0.	.80	61.	28.7	D	17.6	4.2
23	3	2390.	368.	168.	3876.	368.	168.	3876.	5520.	80.	0.	0.	.70	62.	20.8	C	24.1	4.8
24	3	960.	0.	1480.	3708.	0.	1500.	3708.	5576.	24.	0.	0.	.67	62.	19.9	C	17.2	4.8
25	2	1400.	0.	2228.	2228.	0.	2228.	2228.	3600.	0.	0.	0.	.62	62.	18.0	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.90 LOWEST LOS = D AVG = 61. 25.7 17.4 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	169. PASS-HRS	666. VEH-HRS	828. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	12. VEH-HRS	15. PASS-HRS	24. VEH-HRS	29. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	148. VEH-HRS	184. PASS-HRS	689. VEH-HRS	857. PASS-HRS
TOTAL TRAV DISTANCE =	8283. VEH-MI.	10304. PASS-MI.	40532. VEH-MI.	50422. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		61. MPH.	
AVERAGE DENSITY =	26. VPMPL		25. VPMPL	
TOTAL FUEL =	480. GALLONS		2336. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		175. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	45.	11.88	4.50	0.07	0.42	0.07	0.57

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2344.	108.	2344.	2344.	108.	2344.	4100.	0.	0.	0.	.57	62.	18.9	C	13.6	4.8
2	2	1970.	0.	0.	2236.	0.	0.	2236.	4100.	0.	0.	0.	.55	62.	18.0	C	13.6	4.8
3	2	1830.	260.	160.	2496.	260.	160.	2496.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
4	2	2010.	0.	0.	2336.	0.	0.	2336.	4400.	0.	0.	0.	.53	62.	18.8	C	13.6	4.8
5	2	2445.	604.	288.	2940.	604.	288.	2940.	4089.	11.	0.	0.	.72	62.	23.7	C	13.6	4.8
6	2	1890.	0.	0.	2652.	0.	0.	2652.	4400.	0.	0.	0.	.60	62.	21.4	C	13.6	4.8
7	2	5320.	416.	500.	3068.	416.	500.	3068.	4100.	0.	0.	0.	.75	62.	24.7	C	13.6	4.8
8	2	880.	0.	0.	2568.	0.	0.	2568.	4400.	0.	0.	0.	.58	62.	20.7	C	14.9	4.8
9	2	1125.	172.	0.	2740.	172.	0.	2740.	4400.	0.	0.	0.	.62	62.	22.1	C	19.9	4.8
10	2	6320.	396.	284.	3136.	396.	284.	3136.	4250.	0.	0.	0.	.74	62.	25.4	C	20.0	4.7
11	2	2050.	0.	0.	2852.	0.	0.	2852.	4100.	0.	0.	0.	.70	62.	23.0	C	19.9	4.8
12	2	2560.	808.	0.	3660.	808.	0.	3660.	4400.	0.	0.	0.	.83	60.	30.4	D	17.9	3.8
13	2	1400.	0.	416.	3660.	0.	416.	3660.	4400.	0.	0.	0.	.83	60.	30.4	D	33.8	3.8
14	2	1320.	0.	0.	3244.	0.	0.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	15.0	4.7
15	3	540.	892.	1264.	4136.	892.	1264.	4136.	4980.	620.	0.	0.	.83	62.	22.2	C	12.6	4.8
16	2	1230.	0.	0.	2872.	0.	0.	2872.	4400.	0.	0.	0.	.65	62.	23.2	C	19.9	4.8
17	2	890.	632.	0.	3504.	632.	0.	3504.	4400.	0.	0.	0.	.80	61.	28.7	D	20.4	4.2
18	2	4840.	200.	592.	3704.	200.	592.	3704.	4400.	0.	0.	0.	.84	60.	30.9	D	18.0	3.6
19	2	530.	0.	0.	3112.	0.	0.	3112.	3800.	0.	0.	0.	.82	61.	25.7	C	20.6	4.0
20	2	1040.	380.	0.	3492.	380.	0.	3492.	4388.	12.	0.	0.	.80	61.	28.6	D	20.4	4.2
21	3	2810.	656.	708.	4148.	656.	708.	4148.	5504.	96.	0.	0.	.75	62.	22.3	C	24.1	4.8
22	2	1850.	0.	0.	3440.	0.	0.	3440.	4400.	0.	0.	0.	.78	61.	28.1	D	17.4	4.4
23	3	2390.	324.	140.	3764.	324.	140.	3764.	5532.	68.	0.	0.	.68	62.	20.2	C	24.1	4.8
24	3	960.	0.	1572.	3624.	0.	1500.	3624.	5582.	18.	0.	0.	.65	62.	19.5	C	17.2	4.8
25	2	1400.	0.	2052.	2052.	0.	2052.	2052.	3600.	0.	0.	0.	.57	62.	16.5	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.84		LOWEST LOS = D	AVG = 62.	24.0		17.3	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	127. VEH-HRS	158. PASS-HRS	793. VEH-HRS	986. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	14. VEH-HRS	17. PASS-HRS	37. VEH-HRS	46. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	141. VEH-HRS	175. PASS-HRS	830. VEH-HRS	1032. PASS-HRS
TOTAL TRAV DISTANCE =	7832. VEH-MI.	9743. PASS-MI.	48364. VEH-MI.	60165. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		25. VPMPL	
TOTAL FUEL =	459. GALLONS		2794. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		211. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	63.	13.50	5.11	0.08	0.48	0.08	0.65

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2388.	156.	2388.	2388.	156.	2388.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
2	2	1970.	0.	0.	2232.	0.	0.	2232.	4100.	0.	0.	0.	.54	62.	18.0	C	13.6	4.8
3	2	1830.	244.	136.	2476.	244.	136.	2476.	4100.	0.	0.	0.	.60	62.	20.0	C	13.6	4.8
4	2	2010.	0.	0.	2340.	0.	0.	2340.	4400.	0.	0.	0.	.53	62.	18.9	C	13.6	4.8
5	2	2445.	700.	332.	3040.	700.	332.	3040.	4036.	64.	0.	0.	.75	62.	24.5	C	13.6	4.8
6	2	1890.	0.	0.	2708.	0.	0.	2708.	4400.	0.	0.	0.	.62	62.	21.8	C	13.6	4.8
7	2	5320.	468.	444.	3176.	468.	444.	3176.	4100.	0.	0.	0.	.77	61.	25.9	C	13.7	4.4
8	2	880.	0.	0.	2732.	0.	0.	2732.	4400.	0.	0.	0.	.62	62.	22.0	C	14.9	4.8
9	2	1125.	152.	0.	2884.	152.	0.	2884.	4400.	0.	0.	0.	.66	62.	23.3	C	19.9	4.8
10	2	6320.	508.	272.	3392.	508.	272.	3392.	4250.	0.	0.	0.	.80	61.	27.8	D	20.4	4.2
11	2	2050.	0.	0.	3120.	0.	0.	3120.	4100.	0.	0.	0.	.76	62.	25.3	C	20.1	4.5
12	2	2560.	752.	0.	3872.	752.	0.	3872.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
13	2	1400.	0.	436.	3872.	0.	436.	3872.	4400.	0.	0.	0.	.88	59.	33.0	D	35.1	3.3
14	2	1320.	0.	0.	3436.	0.	0.	3436.	4400.	0.	0.	0.	.78	61.	28.0	D	15.1	4.4
15	3	540.	756.	1160.	4192.	756.	1160.	4192.	5052.	548.	0.	0.	.83	62.	22.5	C	12.6	4.8
16	2	1230.	0.	0.	3032.	0.	0.	3032.	4400.	0.	0.	0.	.69	62.	24.5	C	19.9	4.8
17	2	890.	608.	0.	3640.	608.	0.	3640.	4400.	0.	0.	0.	.83	60.	30.1	D	20.7	3.9
18	2	4840.	224.	476.	3864.	224.	476.	3864.	4400.	0.	0.	0.	.88	59.	32.9	D	18.3	3.3
19	2	530.	0.	0.	3388.	0.	0.	3388.	3800.	0.	0.	0.	.89	58.	29.1	D	21.4	3.2
20	2	1040.	380.	0.	3768.	380.	0.	3768.	4386.	14.	0.	0.	.86	59.	31.7	D	21.1	3.5
21	3	2810.	672.	760.	4440.	672.	760.	4440.	5444.	156.	0.	0.	.82	62.	23.9	C	24.1	4.8
22	2	1850.	0.	0.	3680.	0.	0.	3680.	4400.	0.	0.	0.	.84	60.	30.6	D	17.9	3.7
23	3	2390.	332.	144.	4012.	332.	144.	4012.	5522.	78.	0.	0.	.73	62.	21.6	C	24.1	4.8
24	3	960.	0.	1536.	3868.	0.	1500.	3868.	5574.	26.	0.	0.	.69	62.	20.8	C	17.2	4.8
25	2	1400.	0.	2332.	2332.	0.	2332.	2332.	3600.	0.	0.	0.	.65	62.	18.8	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 61.	25.5		17.5	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	168. PASS-HRS	928. VEH-HRS	1155. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	17. VEH-HRS	21. PASS-HRS	54. VEH-HRS	67. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	152. VEH-HRS	189. PASS-HRS	982. VEH-HRS	1222. PASS-HRS
TOTAL TRAV DISTANCE =	8241. VEH-MI.	10252. PASS-MI.	56605. VEH-MI.	70417. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		61. MPH.	
AVERAGE DENSITY =	26. VPMPL		25. VPMPL	
TOTAL FUEL =	477. GALLONS		3271. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		247. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	72.	16.87	6.39	0.10	0.60	0.11	0.81

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2376.	108.	2376.	2376.	108.	2376.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
2	2	1970.	0.	0.	2268.	0.	0.	2268.	4100.	0.	0.	0.	.55	62.	18.3	C	13.6	4.8
3	2	1830.	308.	156.	2576.	308.	156.	2576.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
4	2	2010.	0.	0.	2420.	0.	0.	2420.	4400.	0.	0.	0.	.55	62.	19.5	C	13.6	4.8
5	2	2445.	596.	340.	3016.	596.	340.	3016.	4073.	27.	0.	0.	.74	62.	24.3	C	13.6	4.8
6	2	1890.	0.	0.	2676.	0.	0.	2676.	4400.	0.	0.	0.	.61	62.	21.6	C	13.6	4.8
7	2	5320.	476.	524.	3152.	476.	524.	3152.	4100.	0.	0.	0.	.77	61.	25.6	C	13.7	4.5
8	2	880.	0.	0.	2628.	0.	0.	2628.	4400.	0.	0.	0.	.60	62.	21.2	C	14.9	4.8
9	2	1125.	156.	0.	2784.	156.	0.	2784.	4400.	0.	0.	0.	.63	62.	22.5	C	19.9	4.8
10	2	6320.	440.	320.	3224.	440.	320.	3224.	4250.	0.	0.	0.	.76	62.	26.2	D	20.1	4.6
11	2	2050.	0.	0.	2904.	0.	0.	2904.	4100.	0.	0.	0.	.71	62.	23.4	C	19.9	4.8
12	2	2560.	676.	0.	3580.	676.	0.	3580.	4400.	0.	0.	0.	.81	61.	29.5	D	17.7	4.0
13	2	1400.	0.	484.	3580.	0.	484.	3580.	4400.	0.	0.	0.	.81	61.	29.5	D	33.4	4.0
14	2	1320.	0.	0.	3096.	0.	0.	3096.	4400.	0.	0.	0.	.70	62.	25.0	C	14.9	4.8
15	3	540.	780.	1320.	3876.	780.	1320.	3876.	5088.	512.	0.	0.	.76	62.	20.8	C	12.6	4.8
16	2	1230.	0.	0.	2556.	0.	0.	2556.	4400.	0.	0.	0.	.58	62.	20.6	C	19.9	4.8
17	2	890.	460.	0.	3016.	460.	0.	3016.	4400.	0.	0.	0.	.69	62.	24.3	C	19.9	4.8
18	2	4840.	180.	628.	3196.	180.	628.	3196.	4400.	0.	0.	0.	.73	62.	25.8	C	17.2	4.7
19	2	530.	0.	0.	2568.	0.	0.	2568.	3800.	0.	0.	0.	.68	62.	20.7	C	19.9	4.8
20	2	1040.	380.	0.	2948.	380.	0.	2948.	4393.	7.	0.	0.	.67	62.	23.8	C	19.9	4.8
21	3	2810.	772.	640.	3720.	772.	640.	3720.	5517.	83.	0.	0.	.67	62.	20.0	C	24.1	4.8
22	2	1850.	0.	0.	3080.	0.	0.	3080.	4400.	0.	0.	0.	.70	62.	24.8	C	17.2	4.8
23	3	2390.	304.	228.	3384.	304.	228.	3384.	5565.	35.	0.	0.	.61	62.	18.2	C	24.1	4.8
24	3	960.	0.	1548.	3156.	0.	1500.	3156.	5598.	2.	0.	0.	.56	62.	17.0	B	17.2	4.8
25	2	1400.	0.	1608.	1608.	0.	1608.	1608.	3600.	0.	0.	0.	.45	62.	13.0	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 62.	23.0		17.1	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	151. PASS-HRS	1050. VEH-HRS	1306. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	19. VEH-HRS	24. PASS-HRS	74. VEH-HRS	91. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	141. VEH-HRS	176. PASS-HRS	1123. VEH-HRS	1397. PASS-HRS
TOTAL TRAV DISTANCE =	7514. VEH-MI.	9348. PASS-MI.	64119. VEH-MI.	79764. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		25. VPMPL	
TOTAL FUEL =	448. GALLONS		3719. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		283. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	84.	19.50	7.39	0.11	0.70	0.12	0.93

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2616.	136.	2616.	2616.	136.	2616.	4100.	0.	0.	0.	.64	62.	21.1	C	13.6	4.8
2	2	1970.	0.	0.	2480.	0.	0.	2480.	4100.	0.	0.	0.	.60	62.	20.0	C	13.6	4.8
3	2	1830.	284.	140.	2764.	284.	140.	2764.	4100.	0.	0.	0.	.67	62.	22.3	C	13.6	4.8
4	2	2010.	0.	0.	2624.	0.	0.	2624.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
5	2	2445.	432.	496.	3056.	432.	496.	3056.	4082.	18.	0.	0.	.75	62.	24.6	C	13.6	4.8
6	2	1890.	0.	0.	2560.	0.	0.	2560.	4400.	0.	0.	0.	.58	62.	20.6	C	13.6	4.8
7	2	5320.	384.	420.	2944.	384.	420.	2944.	4100.	0.	0.	0.	.72	62.	23.7	C	13.6	4.8
8	2	880.	0.	0.	2524.	0.	0.	2524.	4400.	0.	0.	0.	.57	62.	20.4	C	14.9	4.8
9	2	1125.	144.	0.	2668.	144.	0.	2668.	4400.	0.	0.	0.	.61	62.	21.5	C	19.9	4.8
10	2	6320.	360.	364.	3028.	360.	364.	3028.	4250.	0.	0.	0.	.71	62.	24.4	C	19.9	4.8
11	2	2050.	0.	0.	2664.	0.	0.	2664.	4100.	0.	0.	0.	.65	62.	21.5	C	19.9	4.8
12	2	2560.	816.	0.	3480.	816.	0.	3480.	4400.	0.	0.	0.	.79	61.	28.4	D	17.5	4.3
13	2	1400.	0.	432.	3480.	0.	432.	3480.	4400.	0.	0.	0.	.79	61.	28.4	D	33.0	4.3
14	2	1320.	0.	0.	3048.	0.	0.	3048.	4400.	0.	0.	0.	.69	62.	24.6	C	14.9	4.8
15	3	540.	568.	1092.	3616.	568.	1092.	3616.	5204.	396.	0.	0.	.69	62.	19.4	C	12.6	4.8
16	2	1230.	0.	0.	2524.	0.	0.	2524.	4400.	0.	0.	0.	.57	62.	20.4	C	19.9	4.8
17	2	890.	556.	0.	3080.	556.	0.	3080.	4400.	0.	0.	0.	.70	62.	24.9	C	20.0	4.8
18	2	4840.	164.	472.	3244.	164.	472.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	17.3	4.7
19	2	530.	0.	0.	2772.	0.	0.	2772.	3800.	0.	0.	0.	.73	62.	22.4	C	19.9	4.8
20	2	1040.	432.	0.	3204.	432.	0.	3204.	4389.	11.	0.	0.	.73	62.	25.9	C	20.0	4.7
21	3	2810.	596.	736.	3800.	596.	736.	3800.	5530.	70.	0.	0.	.69	62.	20.4	C	24.1	4.8
22	2	1850.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	17.2	4.8
23	3	2390.	336.	168.	3400.	336.	168.	3400.	5549.	51.	0.	0.	.61	62.	18.3	C	24.1	4.8
24	3	960.	0.	1452.	3232.	0.	1500.	3232.	5592.	8.	0.	0.	.58	62.	17.4	B	17.2	4.8
25	2	1400.	0.	1780.	1780.	0.	1780.	1780.	3600.	0.	0.	0.	.49	62.	14.4	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.79 LOWEST LOS = D AVG = 62. 22.9 17.0 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	150. PASS-HRS	1171. VEH-HRS	1456. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	19. VEH-HRS	24. PASS-HRS	93. VEH-HRS	116. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	175. PASS-HRS	1264. VEH-HRS	1572. PASS-HRS
TOTAL TRAV DISTANCE =	7485. VEH-MI.	9311. PASS-MI.	71604. VEH-MI.	89075. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		25. VPMPL	
TOTAL FUEL =	448. GALLONS		4167. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		319. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	72.	19.50	7.39	0.11	0.70	0.12	0.93

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2444.	100.	2444.	2444.	100.	2444.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
2	2	1970.	0.	0.	2344.	0.	0.	2344.	4100.	0.	0.	0.	.57	62.	18.9	C	13.6	4.8
3	2	1830.	264.	156.	2608.	264.	156.	2608.	4100.	0.	0.	0.	.64	62.	21.0	C	13.6	4.8
4	2	2010.	0.	0.	2452.	0.	0.	2452.	4400.	0.	0.	0.	.56	62.	19.8	C	13.6	4.8
5	2	2445.	648.	488.	3100.	648.	488.	3100.	3964.	136.	0.	0.	.78	61.	25.3	C	13.8	4.4
6	2	1890.	0.	0.	2612.	0.	0.	2612.	4400.	0.	0.	0.	.59	62.	21.1	C	13.6	4.8
7	2	5320.	380.	476.	2992.	380.	476.	2992.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
8	2	880.	0.	0.	2516.	0.	0.	2516.	4400.	0.	0.	0.	.57	62.	20.3	C	14.9	4.8
9	2	1125.	156.	0.	2672.	156.	0.	2672.	4400.	0.	0.	0.	.61	62.	21.5	C	19.9	4.8
10	2	6320.	440.	416.	3112.	440.	416.	3112.	4250.	0.	0.	0.	.73	62.	25.2	C	20.0	4.7
11	2	2050.	0.	0.	2696.	0.	0.	2696.	4100.	0.	0.	0.	.66	62.	21.7	C	19.9	4.8
12	2	2560.	636.	0.	3332.	636.	0.	3332.	4400.	0.	0.	0.	.76	62.	27.0	D	17.3	4.6
13	2	1400.	0.	476.	3332.	0.	476.	3332.	4400.	0.	0.	0.	.76	62.	27.0	D	32.6	4.6
14	2	1320.	0.	0.	2856.	0.	0.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	14.9	4.8
15	3	540.	608.	1288.	3464.	608.	1288.	3464.	5220.	380.	0.	0.	.66	62.	18.6	C	12.6	4.8
16	2	1230.	0.	0.	2176.	0.	0.	2176.	4400.	0.	0.	0.	.49	62.	17.5	B	19.9	4.8
17	2	890.	512.	0.	2688.	512.	0.	2688.	4400.	0.	0.	0.	.61	62.	21.7	C	19.9	4.8
18	2	4840.	216.	528.	2904.	216.	528.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	17.2	4.8
19	2	530.	0.	0.	2376.	0.	0.	2376.	3800.	0.	0.	0.	.63	62.	19.2	C	19.9	4.8
20	2	1040.	368.	0.	2744.	368.	0.	2744.	4396.	4.	0.	0.	.62	62.	22.1	C	19.9	4.8
21	3	2810.	644.	704.	3388.	644.	704.	3388.	5572.	28.	0.	0.	.61	62.	18.2	C	24.1	4.8
22	2	1850.	0.	0.	2684.	0.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	17.2	4.8
23	3	2390.	248.	152.	2932.	248.	152.	2932.	5600.	0.	0.	0.	.52	62.	15.8	B	24.1	4.8
24	3	960.	0.	1516.	2780.	0.	1500.	2780.	5600.	0.	0.	0.	.50	62.	14.9	B	17.2	4.8
25	2	1400.	0.	1264.	1264.	0.	1264.	1264.	3600.	0.	0.	0.	.35	62.	10.2	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.78		LOWEST LOS = D	AVG = 62.	21.7		16.9	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	114. VEH-HRS	142. PASS-HRS	1285. VEH-HRS	1599. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	18. VEH-HRS	23. PASS-HRS	111. VEH-HRS	139. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	133. VEH-HRS	165. PASS-HRS	1397. VEH-HRS	1737. PASS-HRS
TOTAL TRAV DISTANCE =	7078. VEH-MI.	8805. PASS-MI.	78682. VEH-MI.	97880. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	426. GALLONS		4593. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		354. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	76.	18.50	7.01	0.11	0.66	0.12	0.89

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2664.	112.	2664.	2664.	112.	2664.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
2	2	1970.	0.	0.	2552.	0.	0.	2552.	4100.	0.	0.	0.	.62	62.	20.6	C	13.6	4.8
3	2	1830.	272.	140.	2824.	272.	140.	2824.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
4	2	2010.	0.	0.	2684.	0.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	13.6	4.8
5	2	2445.	600.	460.	3284.	600.	460.	3284.	3987.	113.	0.	0.	.82	60.	27.1	D	14.0	3.9
6	2	1890.	0.	0.	2824.	0.	0.	2824.	4400.	0.	0.	0.	.64	62.	22.8	C	13.6	4.8
7	2	5320.	320.	460.	3144.	320.	460.	3144.	4100.	0.	0.	0.	.77	62.	25.6	C	13.7	4.5
8	2	880.	0.	0.	2684.	0.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	14.9	4.8
9	2	1125.	128.	0.	2812.	128.	0.	2812.	4400.	0.	0.	0.	.64	62.	22.7	C	19.9	4.8
10	2	6320.	408.	384.	3220.	408.	384.	3220.	4250.	0.	0.	0.	.76	62.	26.1	D	20.1	4.6
11	2	2050.	0.	0.	2836.	0.	0.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	19.9	4.8
12	2	2560.	672.	0.	3508.	672.	0.	3508.	4400.	0.	0.	0.	.80	61.	28.7	D	17.6	4.2
13	2	1400.	0.	428.	3508.	0.	428.	3508.	4400.	0.	0.	0.	.80	61.	28.7	D	33.1	4.2
14	2	1320.	0.	0.	3080.	0.	0.	3080.	4400.	0.	0.	0.	.70	62.	24.8	C	14.9	4.8
15	3	540.	516.	1148.	3596.	516.	1148.	3596.	5248.	352.	0.	0.	.69	62.	19.3	C	12.6	4.8
16	2	1230.	0.	0.	2448.	0.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	19.9	4.8
17	2	890.	540.	0.	2988.	540.	0.	2988.	4400.	0.	0.	0.	.68	62.	24.1	C	19.9	4.8
18	2	4840.	216.	536.	3204.	216.	536.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	17.2	4.7
19	2	530.	0.	0.	2668.	0.	0.	2668.	3800.	0.	0.	0.	.70	62.	21.5	C	19.9	4.8
20	2	1040.	444.	0.	3112.	444.	0.	3112.	4391.	9.	0.	0.	.71	62.	25.1	C	20.0	4.8
21	3	2810.	616.	824.	3728.	616.	824.	3728.	5482.	118.	0.	0.	.68	62.	20.0	C	24.1	4.8
22	2	1850.	0.	0.	2904.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	17.2	4.8
23	3	2390.	304.	172.	3208.	304.	172.	3208.	5579.	21.	0.	0.	.58	62.	17.2	B	24.1	4.8
24	3	960.	0.	1564.	3036.	0.	1500.	3036.	5600.	0.	0.	0.	.54	62.	16.3	B	17.2	4.8
25	2	1400.	0.	1472.	1472.	0.	1472.	1472.	3600.	0.	0.	0.	.41	62.	11.9	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.82		LOWEST LOS = D	AVG = 62.	23.4		17.0	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	123. VEH-HRS	153. PASS-HRS	1408. VEH-HRS	1752. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	21. VEH-HRS	26. PASS-HRS	132. VEH-HRS	165. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	144. VEH-HRS	179. PASS-HRS	1541. VEH-HRS	1917. PASS-HRS
TOTAL TRAV DISTANCE =	7606. VEH-MI.	9462. PASS-MI.	86288. VEH-MI.	107342. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		24. VPMPL	
TOTAL FUEL =	456. GALLONS		5050. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		390. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	92.	21.00	7.95	0.12	0.75	0.13	1.00

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2464.	104.	2464.	2464.	104.	2464.	4100.	0.	0.	0.	.60	62.	19.9	C	13.6	4.8
2	2	1970.	0.	0.	2360.	0.	0.	2360.	4100.	0.	0.	0.	.58	62.	19.0	C	13.6	4.8
3	2	1830.	268.	192.	2628.	268.	192.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
4	2	2010.	0.	0.	2436.	0.	0.	2436.	4400.	0.	0.	0.	.55	62.	19.6	C	13.6	4.8
5	2	2445.	556.	492.	2992.	556.	492.	2992.	4020.	80.	0.	0.	.74	62.	24.1	C	13.6	4.8
6	2	1890.	0.	0.	2500.	0.	0.	2500.	4400.	0.	0.	0.	.57	62.	20.2	C	13.6	4.8
7	2	5320.	392.	516.	2892.	392.	516.	2892.	4100.	0.	0.	0.	.71	62.	23.3	C	13.6	4.8
8	2	880.	0.	0.	2376.	0.	0.	2376.	4400.	0.	0.	0.	.54	62.	19.2	C	14.9	4.8
9	2	1125.	140.	0.	2516.	140.	0.	2516.	4400.	0.	0.	0.	.57	62.	20.3	C	19.9	4.8
10	2	6320.	472.	336.	2988.	472.	336.	2988.	4250.	0.	0.	0.	.70	62.	24.1	C	19.9	4.8
11	2	2050.	0.	0.	2652.	0.	0.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	19.9	4.8
12	2	2560.	748.	0.	3400.	748.	0.	3400.	4400.	0.	0.	0.	.77	61.	27.7	D	17.4	4.5
13	2	1400.	0.	516.	3400.	0.	516.	3400.	4400.	0.	0.	0.	.77	61.	27.7	D	32.7	4.5
14	2	1320.	0.	0.	2884.	0.	0.	2884.	4400.	0.	0.	0.	.66	62.	23.3	C	14.9	4.8
15	3	540.	548.	1176.	3432.	548.	1176.	3432.	5240.	360.	0.	0.	.65	62.	18.5	C	12.6	4.8
16	2	1230.	0.	0.	2256.	0.	0.	2256.	4400.	0.	0.	0.	.51	62.	18.2	C	19.9	4.8
17	2	890.	544.	0.	2800.	544.	0.	2800.	4400.	0.	0.	0.	.64	62.	22.6	C	19.9	4.8
18	2	4840.	116.	444.	2916.	116.	444.	2916.	4400.	0.	0.	0.	.66	62.	23.5	C	17.2	4.8
19	2	530.	0.	0.	2472.	0.	0.	2472.	3800.	0.	0.	0.	.65	62.	19.9	C	19.9	4.8
20	2	1040.	420.	0.	2892.	420.	0.	2892.	4395.	5.	0.	0.	.66	62.	23.3	C	19.9	4.8
21	3	2810.	724.	820.	3616.	724.	820.	3616.	5449.	151.	0.	0.	.66	62.	19.4	C	24.1	4.8
22	2	1850.	0.	0.	2796.	0.	0.	2796.	4400.	0.	0.	0.	.64	62.	22.5	C	17.2	4.8
23	3	2390.	336.	164.	3132.	336.	164.	3132.	5600.	0.	0.	0.	.56	62.	16.8	B	24.1	4.8
24	3	960.	0.	1744.	2968.	0.	1500.	2968.	5600.	0.	0.	0.	.53	62.	16.0	B	17.2	4.8
25	2	1400.	0.	1224.	1224.	0.	1224.	1224.	3600.	0.	0.	0.	.34	62.	9.9	A	19.9	4.8
TOTAL		53000. =	10.0 MILES									MAX(V/C) = 0.77	LOWEST LOS = D	AVG = 62.	21.6		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	114. VEH-HRS	142. PASS-HRS	1523. VEH-HRS	1894. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	31. VEH-HRS	38. PASS-HRS	163. VEH-HRS	203. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	145. VEH-HRS	180. PASS-HRS	1686. VEH-HRS	2097. PASS-HRS
TOTAL TRAV DISTANCE =	7084. VEH-MI.	8812. PASS-MI.	93372. VEH-MI.	116154. PASS-MI.
AVERAGE SYSTEM SPEED =	49. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	430. GALLONS		5480. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		425. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	153.	30.62	11.60	0.18	1.10	0.19	1.47

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2628.	164.	2628.	2628.	164.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2464.	0.	0.	2464.	4100.	0.	0.	0.	.60	62.	19.9	C	13.6	4.8
3	2	1830.	324.	160.	2788.	324.	160.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
4	2	2010.	0.	0.	2628.	0.	0.	2628.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
5	2	2445.	440.	528.	3068.	440.	528.	3068.	4064.	36.	0.	0.	.75	62.	24.7	C	13.6	4.8
6	2	1890.	0.	0.	2540.	0.	0.	2540.	4400.	0.	0.	0.	.58	62.	20.5	C	13.6	4.8
7	2	5320.	536.	492.	3076.	536.	492.	3076.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
8	2	880.	0.	0.	2584.	0.	0.	2584.	4400.	0.	0.	0.	.59	62.	20.8	C	14.9	4.8
9	2	1125.	224.	0.	2808.	224.	0.	2808.	4400.	0.	0.	0.	.64	62.	22.6	C	19.9	4.8
10	2	6320.	520.	468.	3328.	520.	468.	3328.	4250.	0.	0.	0.	.78	61.	27.1	D	20.3	4.4
11	2	2050.	0.	0.	2860.	0.	0.	2860.	4100.	0.	0.	0.	.70	62.	23.1	C	19.9	4.8
12	2	2560.	732.	0.	3592.	732.	0.	3592.	4400.	0.	0.	0.	.82	61.	29.6	D	17.7	4.0
13	2	1400.	0.	452.	3592.	0.	452.	3592.	4400.	0.	0.	0.	.82	61.	29.6	D	33.5	4.0
14	2	1320.	0.	0.	3140.	0.	0.	3140.	4400.	0.	0.	0.	.71	62.	25.4	C	14.9	4.7
15	3	540.	756.	1232.	3896.	756.	1232.	3896.	5084.	516.	0.	0.	.77	62.	20.9	C	12.6	4.8
16	2	1230.	0.	0.	2664.	0.	0.	2664.	4400.	0.	0.	0.	.61	62.	21.5	C	19.9	4.8
17	2	890.	644.	0.	3308.	644.	0.	3308.	4400.	0.	0.	0.	.75	62.	26.8	D	20.1	4.6
18	2	4840.	168.	460.	3476.	168.	460.	3476.	4400.	0.	0.	0.	.79	61.	28.4	D	17.5	4.3
19	2	530.	0.	0.	3016.	0.	0.	3016.	3800.	0.	0.	0.	.79	62.	24.3	C	19.9	4.8
20	2	1040.	500.	0.	3516.	500.	0.	3516.	4382.	18.	0.	0.	.80	61.	28.8	D	20.4	4.2
21	3	2810.	792.	860.	4308.	792.	860.	4308.	5285.	315.	0.	0.	.82	62.	23.2	C	24.1	4.8
22	2	1850.	0.	0.	3448.	0.	0.	3448.	4400.	0.	0.	0.	.78	61.	28.1	D	17.5	4.4
23	3	2390.	400.	132.	3848.	400.	132.	3848.	5517.	83.	0.	0.	.70	62.	20.7	C	24.1	4.8
24	3	960.	0.	1720.	3716.	0.	1500.	3716.	5577.	23.	0.	0.	.67	62.	20.0	C	17.2	4.8
25	2	1400.	0.	1996.	1996.	0.	1996.	1996.	3600.	0.	0.	0.	.55	62.	16.1	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.82 LOWEST LOS = D AVG = 62. 24.3 17.2 4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	129. VEH-HRS	160. PASS-HRS	1652. VEH-HRS	2055. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	45. VEH-HRS	56. PASS-HRS	208. VEH-HRS	259. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	174. VEH-HRS	217. PASS-HRS	1860. VEH-HRS	2314. PASS-HRS
TOTAL TRAV DISTANCE =	7954. VEH-MI.	9895. PASS-MI.	101325. VEH-MI.	126049. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		24. VPMPL	
TOTAL FUEL =	480. GALLONS		5960. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		463. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	208.	45.12	17.09	0.26	1.61	0.28	2.16

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2792.	148.	2792.	2792.	148.	2792.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
2	2	1970.	0.	0.	2644.	0.	0.	2644.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
3	2	1830.	356.	240.	3000.	356.	240.	3000.	4100.	0.	0.	0.	.73	62.	24.2	C	13.6	4.8
4	2	2010.	0.	0.	2760.	0.	0.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	13.6	4.8
5	2	2445.	540.	612.	3300.	540.	612.	3300.	3924.	176.	0.	0.	.84	60.	27.5	D	14.1	3.6
6	2	1890.	0.	0.	2688.	0.	0.	2688.	4400.	0.	0.	0.	.61	62.	21.7	C	13.6	4.8
7	2	5320.	492.	724.	3180.	492.	724.	3180.	4100.	0.	0.	0.	.78	61.	25.9	C	13.7	4.4
8	2	880.	0.	0.	2456.	0.	0.	2456.	4400.	0.	0.	0.	.56	62.	19.8	C	14.9	4.8
9	2	1125.	124.	0.	2580.	124.	0.	2580.	4400.	0.	0.	0.	.59	62.	20.8	C	19.9	4.8
10	2	6320.	420.	484.	3000.	420.	484.	3000.	4250.	0.	0.	0.	.71	62.	24.2	C	19.9	4.8
11	2	2050.	0.	0.	2516.	0.	0.	2516.	4100.	0.	0.	0.	.61	62.	20.3	C	19.9	4.8
12	2	2560.	676.	0.	3192.	676.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	17.2	4.7
13	2	1400.	0.	628.	3192.	0.	628.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	32.4	4.7
14	2	1320.	0.	0.	2564.	0.	0.	2564.	4400.	0.	0.	0.	.58	62.	20.7	C	14.9	4.8
15	3	540.	780.	1256.	3344.	780.	1256.	3344.	5112.	488.	0.	0.	.65	62.	18.0	B	12.6	4.8
16	2	1230.	0.	0.	2088.	0.	0.	2088.	4400.	0.	0.	0.	.47	62.	16.8	B	19.9	4.8
17	2	890.	576.	0.	2664.	576.	0.	2664.	4400.	0.	0.	0.	.61	62.	21.5	C	19.9	4.8
18	2	4840.	160.	440.	2824.	160.	440.	2824.	4400.	0.	0.	0.	.64	62.	22.8	C	17.2	4.8
19	2	530.	0.	0.	2384.	0.	0.	2384.	3800.	0.	0.	0.	.63	62.	19.2	C	19.9	4.8
20	2	1040.	428.	0.	2812.	428.	0.	2812.	4397.	3.	0.	0.	.64	62.	22.7	C	19.9	4.8
21	3	2810.	696.	892.	3508.	696.	892.	3508.	5435.	165.	0.	0.	.65	62.	18.9	C	24.1	4.8
22	2	1850.	0.	0.	2616.	0.	0.	2616.	4400.	0.	0.	0.	.59	62.	21.1	C	17.2	4.8
23	3	2390.	360.	180.	2976.	360.	180.	2976.	5600.	0.	0.	0.	.53	62.	16.0	B	24.1	4.8
24	3	960.	0.	1712.	2796.	0.	1500.	2796.	5600.	0.	0.	0.	.50	62.	15.0	B	17.2	4.8
25	2	1400.	0.	1084.	1084.	0.	1084.	1084.	3600.	0.	0.	0.	.30	62.	8.7	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.84		LOWEST LOS = D	AVG = 62.	22.1		16.8	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	116. VEH-HRS	144. PASS-HRS	1768. VEH-HRS	2199. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	59. VEH-HRS	73. PASS-HRS	267. VEH-HRS	332. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	175. VEH-HRS	217. PASS-HRS	2035. VEH-HRS	2531. PASS-HRS
TOTAL TRAV DISTANCE =	7179. VEH-MI.	8931. PASS-MI.	108505. VEH-MI.	134980. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	450. GALLONS		6409. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		500. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	261.	58.62	22.20	0.34	2.10	0.37	2.80

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2384.	140.	2384.	2384.	140.	2384.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
2	2	1970.	0.	0.	2244.	0.	0.	2244.	4100.	0.	0.	0.	.55	62.	18.1	C	13.6	4.8
3	2	1830.	316.	232.	2560.	316.	232.	2560.	4100.	0.	0.	0.	.62	62.	20.6	C	13.6	4.8
4	2	2010.	0.	0.	2328.	0.	0.	2328.	4400.	0.	0.	0.	.53	62.	18.8	C	13.6	4.8
5	2	2445.	732.	432.	3060.	732.	432.	3060.	3969.	131.	0.	0.	.77	62.	24.7	C	13.6	4.8
6	2	1890.	0.	0.	2628.	0.	0.	2628.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
7	2	5320.	472.	692.	3100.	472.	692.	3100.	4100.	0.	0.	0.	.76	62.	25.1	C	13.7	4.6
8	2	880.	0.	0.	2408.	0.	0.	2408.	4400.	0.	0.	0.	.55	62.	19.4	C	14.9	4.8
9	2	1125.	144.	0.	2552.	144.	0.	2552.	4400.	0.	0.	0.	.58	62.	20.6	C	19.9	4.8
10	2	6320.	404.	388.	2956.	404.	388.	2956.	4250.	0.	0.	0.	.70	62.	23.8	C	19.9	4.8
11	2	2050.	0.	0.	2568.	0.	0.	2568.	4100.	0.	0.	0.	.63	62.	20.7	C	19.9	4.8
12	2	2560.	652.	0.	3220.	652.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	17.2	4.7
13	2	1400.	0.	400.	3220.	0.	400.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	32.4	4.7
14	2	1320.	0.	0.	2820.	0.	0.	2820.	4400.	0.	0.	0.	.64	62.	22.7	C	14.9	4.8
15	3	540.	712.	1284.	3532.	712.	1284.	3532.	5148.	452.	0.	0.	.69	62.	19.0	C	12.6	4.8
16	2	1230.	0.	0.	2248.	0.	0.	2248.	4400.	0.	0.	0.	.51	62.	18.1	C	19.9	4.8
17	2	890.	436.	0.	2684.	436.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	19.9	4.8
18	2	4840.	172.	396.	2856.	172.	396.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	17.2	4.8
19	2	530.	0.	0.	2460.	0.	0.	2460.	3800.	0.	0.	0.	.65	62.	19.8	C	19.9	4.8
20	2	1040.	504.	0.	2964.	504.	0.	2964.	4393.	7.	0.	0.	.67	62.	23.9	C	19.9	4.8
21	3	2810.	544.	752.	3508.	544.	752.	3508.	5557.	43.	0.	0.	.63	62.	18.9	C	24.1	4.8
22	2	1850.	0.	0.	2756.	0.	0.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	17.2	4.8
23	3	2390.	360.	172.	3116.	360.	172.	3116.	5593.	7.	0.	0.	.56	62.	16.8	B	24.1	4.8
24	3	960.	0.	1628.	2944.	0.	1500.	2944.	5600.	0.	0.	0.	.53	62.	15.8	B	17.2	4.8
25	2	1400.	0.	1316.	1316.	0.	1316.	1316.	3600.	0.	0.	0.	.37	62.	10.6	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.77 LOWEST LOS = D AVG = 62. 21.5 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	114. VEH-HRS	141. PASS-HRS	1881. VEH-HRS	2340. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	69. VEH-HRS	86. PASS-HRS	336. VEH-HRS	418. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	183. VEH-HRS	227. PASS-HRS	2217. VEH-HRS	2758. PASS-HRS
TOTAL TRAV DISTANCE =	7035. VEH-MI.	8752. PASS-MI.	115540. VEH-MI.	143731. PASS-MI.
AVERAGE SYSTEM SPEED =	38. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	443. GALLONS		6852. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		537. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	293.	69.25	26.23	0.40	2.48	0.43	3.31

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2124.	136.	2124.	2124.	136.	2124.	4100.	0.	0.	0.	.52	62.	17.1	B	13.6	4.8
2	2	1970.	0.	0.	1988.	0.	0.	1988.	4100.	0.	0.	0.	.48	62.	16.0	B	13.6	4.8
3	2	1830.	268.	160.	2256.	268.	160.	2256.	4100.	0.	0.	0.	.55	62.	18.2	C	13.6	4.8
4	2	2010.	0.	0.	2096.	0.	0.	2096.	4400.	0.	0.	0.	.48	62.	16.9	B	13.6	4.8
5	2	2445.	668.	448.	2764.	668.	448.	2764.	3998.	102.	0.	0.	.69	62.	22.3	C	13.6	4.8
6	2	1890.	0.	0.	2316.	0.	0.	2316.	4400.	0.	0.	0.	.53	62.	18.7	C	13.6	4.8
7	2	5320.	376.	656.	2692.	376.	656.	2692.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
8	2	880.	0.	0.	2036.	0.	0.	2036.	4400.	0.	0.	0.	.46	62.	16.4	B	14.9	4.8
9	2	1125.	108.	0.	2144.	108.	0.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	19.9	4.8
10	2	6320.	404.	460.	2548.	404.	460.	2548.	4250.	0.	0.	0.	.60	62.	20.5	C	19.9	4.8
11	2	2050.	0.	0.	2088.	0.	0.	2088.	4100.	0.	0.	0.	.51	62.	16.8	B	19.9	4.8
12	2	2560.	680.	0.	2768.	680.	0.	2768.	4400.	0.	0.	0.	.63	62.	22.3	C	17.2	4.8
13	2	1400.	0.	396.	2768.	0.	396.	2768.	4400.	0.	0.	0.	.63	62.	22.3	C	32.3	4.8
14	2	1320.	0.	0.	2372.	0.	0.	2372.	4400.	0.	0.	0.	.54	62.	19.1	C	14.9	4.8
15	3	540.	712.	1236.	3084.	712.	1236.	3084.	5172.	428.	0.	0.	.60	62.	16.6	B	12.6	4.8
16	2	1230.	0.	0.	1848.	0.	0.	1848.	4400.	0.	0.	0.	.42	62.	14.9	B	19.9	4.8
17	2	890.	600.	0.	2448.	600.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	19.9	4.8
18	2	4840.	120.	524.	2568.	120.	524.	2568.	4400.	0.	0.	0.	.58	62.	20.7	C	17.2	4.8
19	2	530.	0.	0.	2044.	0.	0.	2044.	3800.	0.	0.	0.	.54	62.	16.5	B	19.9	4.8
20	2	1040.	412.	0.	2456.	412.	0.	2456.	4400.	0.	0.	0.	.56	62.	19.8	C	19.9	4.8
21	3	2810.	568.	768.	3024.	568.	768.	3024.	5585.	15.	0.	0.	.54	62.	16.3	B	24.1	4.8
22	2	1850.	0.	0.	2256.	0.	0.	2256.	4400.	0.	0.	0.	.51	62.	18.2	C	17.2	4.8
23	3	2390.	324.	136.	2580.	324.	136.	2580.	5600.	0.	0.	0.	.46	62.	13.9	B	24.1	4.8
24	3	960.	0.	1340.	2444.	0.	1500.	2444.	5600.	0.	0.	0.	.44	62.	13.1	B	17.2	4.8
25	2	1400.	0.	1104.	1104.	0.	1104.	1104.	3600.	0.	0.	0.	.31	62.	8.9	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.69		LOWEST LOS = C	AVG = 62.	18.6		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	98. VEH-HRS	122. PASS-HRS	1979. VEH-HRS	2462. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	68. VEH-HRS	85. PASS-HRS	404. VEH-HRS	503. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	166. VEH-HRS	207. PASS-HRS	2384. VEH-HRS	2965. PASS-HRS
TOTAL TRAV DISTANCE =	6086. VEH-MI.	7571. PASS-MI.	121625. VEH-MI.	151302. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		23. VPMPL	
TOTAL FUEL =	388. GALLONS		7240. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		569. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	253.	68.25	25.85	0.40	2.44	0.43	3.27

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1716.	140.	1716.	1716.	140.	1716.	4100.	0.	0.	0.	.42	62.	13.8	B	13.6	4.8
2	2	1970.	0.	0.	1576.	0.	0.	1576.	4100.	0.	0.	0.	.38	62.	12.7	B	13.6	4.8
3	2	1830.	248.	184.	1824.	248.	184.	1824.	4100.	0.	0.	0.	.44	62.	14.7	B	13.6	4.8
4	2	2010.	0.	0.	1640.	0.	0.	1640.	4400.	0.	0.	0.	.37	62.	13.2	B	13.6	4.8
5	2	2445.	524.	384.	2164.	524.	384.	2164.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
6	2	1890.	0.	0.	1780.	0.	0.	1780.	4400.	0.	0.	0.	.40	62.	14.4	B	13.6	4.8
7	2	5320.	372.	420.	2152.	372.	420.	2152.	4100.	0.	0.	0.	.52	62.	17.4	B	13.6	4.8
8	2	880.	0.	0.	1732.	0.	0.	1732.	4400.	0.	0.	0.	.39	62.	14.0	B	14.9	4.8
9	2	1125.	104.	0.	1836.	104.	0.	1836.	4400.	0.	0.	0.	.42	62.	14.8	B	19.9	4.8
10	2	6320.	348.	256.	2184.	348.	256.	2184.	4250.	0.	0.	0.	.51	62.	17.6	B	19.9	4.8
11	2	2050.	0.	0.	1928.	0.	0.	1928.	4100.	0.	0.	0.	.47	62.	15.5	B	19.9	4.8
12	2	2560.	568.	0.	2496.	568.	0.	2496.	4400.	0.	0.	0.	.57	62.	20.1	C	17.2	4.8
13	2	1400.	0.	364.	2496.	0.	364.	2496.	4400.	0.	0.	0.	.57	62.	20.1	C	32.3	4.8
14	2	1320.	0.	0.	2132.	0.	0.	2132.	4400.	0.	0.	0.	.48	62.	17.2	B	14.9	4.8
15	3	540.	648.	996.	2780.	648.	996.	2780.	5184.	416.	0.	0.	.54	62.	14.9	B	12.6	4.8
16	2	1230.	0.	0.	1784.	0.	0.	1784.	4400.	0.	0.	0.	.41	62.	14.4	B	19.9	4.8
17	2	890.	576.	0.	2360.	576.	0.	2360.	4400.	0.	0.	0.	.54	62.	19.0	C	19.9	4.8
18	2	4840.	116.	412.	2476.	116.	412.	2476.	4400.	0.	0.	0.	.56	62.	20.0	C	17.2	4.8
19	2	530.	0.	0.	2064.	0.	0.	2064.	3800.	0.	0.	0.	.54	62.	16.6	B	19.9	4.8
20	2	1040.	388.	0.	2452.	388.	0.	2452.	4400.	0.	0.	0.	.56	62.	19.8	C	19.9	4.8
21	3	2810.	436.	712.	2888.	436.	712.	2888.	5586.	14.	0.	0.	.52	62.	15.5	B	24.1	4.8
22	2	1850.	0.	0.	2176.	0.	0.	2176.	4400.	0.	0.	0.	.49	62.	17.5	B	17.2	4.8
23	3	2390.	272.	108.	2448.	272.	108.	2448.	5600.	0.	0.	0.	.44	62.	13.2	B	24.1	4.8
24	3	960.	0.	1404.	2340.	0.	1500.	2340.	5600.	0.	0.	0.	.42	62.	12.6	B	17.2	4.8
25	2	1400.	0.	936.	936.	0.	936.	936.	3600.	0.	0.	0.	.26	62.	7.5	A	19.9	4.8
TOTAL		53000. =	10.0 MILES									MAX(V/C) = 0.57	LOWEST LOS = C	AVG = 62.	16.2		17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	86. VEH-HRS	107. PASS-HRS	2066. VEH-HRS	2569. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	60. VEH-HRS	75. PASS-HRS	465. VEH-HRS	578. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	146. VEH-HRS	182. PASS-HRS	2530. VEH-HRS	3147. PASS-HRS
TOTAL TRAV DISTANCE =	5336. VEH-MI.	6638. PASS-MI.	126961. VEH-MI.	157940. PASS-MI.
AVERAGE SYSTEM SPEED =	36. MPH.		61. MPH.	
AVERAGE DENSITY =	16. VPMPL		23. VPMPL	
TOTAL FUEL =	336. GALLONS		7576. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		597. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	229.	60.25	22.82	0.35	2.16	0.38	2.88

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1812.	96.	1812.	1812.	96.	1812.	4100.	0.	0.	0.	.44	62.	14.6	B	13.6	4.8
2	2	1970.	0.	0.	1716.	0.	0.	1716.	4100.	0.	0.	0.	.42	62.	13.8	B	13.6	4.8
3	2	1830.	244.	124.	1960.	244.	124.	1960.	4100.	0.	0.	0.	.48	62.	15.8	B	13.6	4.8
4	2	2010.	0.	0.	1836.	0.	0.	1836.	4400.	0.	0.	0.	.42	62.	14.8	B	13.6	4.8
5	2	2445.	432.	392.	2268.	432.	392.	2268.	4100.	0.	0.	0.	.55	62.	18.3	C	13.6	4.8
6	2	1890.	0.	0.	1876.	0.	0.	1876.	4400.	0.	0.	0.	.43	62.	15.1	B	13.6	4.8
7	2	5320.	292.	548.	2168.	292.	548.	2168.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
8	2	880.	0.	0.	1620.	0.	0.	1620.	4400.	0.	0.	0.	.37	62.	13.1	B	14.9	4.8
9	2	1125.	128.	0.	1748.	128.	0.	1748.	4400.	0.	0.	0.	.40	62.	14.1	B	19.9	4.8
10	2	6320.	364.	348.	2112.	364.	348.	2112.	4250.	0.	0.	0.	.50	62.	17.0	B	19.9	4.8
11	2	2050.	0.	0.	1764.	0.	0.	1764.	4100.	0.	0.	0.	.43	62.	14.2	B	19.9	4.8
12	2	2560.	500.	0.	2264.	500.	0.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	17.2	4.8
13	2	1400.	0.	276.	2264.	0.	276.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	32.3	4.8
14	2	1320.	0.	0.	1988.	0.	0.	1988.	4400.	0.	0.	0.	.45	62.	16.0	B	14.9	4.8
15	3	540.	644.	984.	2632.	644.	984.	2632.	5196.	404.	0.	0.	.51	62.	14.2	B	12.6	4.8
16	2	1230.	0.	0.	1648.	0.	0.	1648.	4400.	0.	0.	0.	.37	62.	13.3	B	19.9	4.8
17	2	890.	536.	0.	2184.	536.	0.	2184.	4400.	0.	0.	0.	.50	62.	17.6	B	19.9	4.8
18	2	4840.	176.	392.	2360.	176.	392.	2360.	4400.	0.	0.	0.	.54	62.	19.0	C	17.2	4.8
19	2	530.	0.	0.	1968.	0.	0.	1968.	3800.	0.	0.	0.	.52	62.	15.9	B	19.9	4.8
20	2	1040.	404.	0.	2372.	404.	0.	2372.	4400.	0.	0.	0.	.54	62.	19.1	C	19.9	4.8
21	3	2810.	448.	700.	2820.	448.	700.	2820.	5589.	11.	0.	0.	.50	62.	15.2	B	24.1	4.8
22	2	1850.	0.	0.	2120.	0.	0.	2120.	4400.	0.	0.	0.	.48	62.	17.1	B	17.2	4.8
23	3	2390.	232.	104.	2352.	232.	104.	2352.	5600.	0.	0.	0.	.42	62.	12.6	B	24.1	4.8
24	3	960.	0.	1236.	2248.	0.	1500.	2248.	5600.	0.	0.	0.	.40	62.	12.1	B	17.2	4.8
25	2	1400.	0.	1012.	1012.	0.	1012.	1012.	3600.	0.	0.	0.	.28	62.	8.2	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.55		LOWEST LOS = C	AVG = 62.	16.0		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	85. VEH-HRS	105. PASS-HRS	2150. VEH-HRS	2675. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	49. VEH-HRS	61. PASS-HRS	514. VEH-HRS	639. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	166. PASS-HRS	2664. VEH-HRS	3314. PASS-HRS
TOTAL TRAV DISTANCE =	5244. VEH-MI.	6524. PASS-MI.	132205. VEH-MI.	164463. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		61. MPH.	
AVERAGE DENSITY =	16. VPMPL		23. VPMPL	
TOTAL FUEL =	329. GALLONS		7905. GALLONS	
TOTAL EMISSIONS =	27. KILOGRAMS		625. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	163.	49.00	18.56	0.29	1.75	0.31	2.34

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1624.	104.	1624.	1624.	104.	1624.	4100.	0.	0.	0.	.40	62.	13.1	B	13.6	4.8
2	2	1970.	0.	0.	1520.	0.	0.	1520.	4100.	0.	0.	0.	.37	62.	12.3	B	13.6	4.8
3	2	1830.	272.	124.	1792.	272.	124.	1792.	4100.	0.	0.	0.	.44	62.	14.5	B	13.6	4.8
4	2	2010.	0.	0.	1668.	0.	0.	1668.	4400.	0.	0.	0.	.38	62.	13.5	B	13.6	4.8
5	2	2445.	492.	384.	2160.	492.	384.	2160.	4100.	0.	0.	0.	.53	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	1776.	0.	0.	1776.	4400.	0.	0.	0.	.40	62.	14.3	B	13.6	4.8
7	2	5320.	336.	436.	2112.	336.	436.	2112.	4100.	0.	0.	0.	.52	62.	17.0	B	13.6	4.8
8	2	880.	0.	0.	1676.	0.	0.	1676.	4400.	0.	0.	0.	.38	62.	13.5	B	14.9	4.8
9	2	1125.	184.	0.	1860.	184.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
10	2	6320.	276.	276.	2136.	276.	276.	2136.	4250.	0.	0.	0.	.50	62.	17.2	B	19.9	4.8
11	2	2050.	0.	0.	1860.	0.	0.	1860.	4100.	0.	0.	0.	.45	62.	15.0	B	19.9	4.8
12	2	2560.	456.	0.	2316.	456.	0.	2316.	4400.	0.	0.	0.	.53	62.	18.7	C	17.2	4.8
13	2	1400.	0.	324.	2316.	0.	324.	2316.	4400.	0.	0.	0.	.53	62.	18.7	C	32.3	4.8
14	2	1320.	0.	0.	1992.	0.	0.	1992.	4400.	0.	0.	0.	.45	62.	16.1	B	14.9	4.8
15	3	540.	552.	972.	2544.	552.	972.	2544.	5260.	340.	0.	0.	.48	62.	13.7	B	12.6	4.8
16	2	1230.	0.	0.	1572.	0.	0.	1572.	4400.	0.	0.	0.	.36	62.	12.7	B	19.9	4.8
17	2	890.	528.	0.	2100.	528.	0.	2100.	4400.	0.	0.	0.	.48	62.	16.9	B	19.9	4.8
18	2	4840.	184.	364.	2284.	184.	364.	2284.	4400.	0.	0.	0.	.52	62.	18.4	C	17.2	4.8
19	2	530.	0.	0.	1920.	0.	0.	1920.	3800.	0.	0.	0.	.51	62.	15.5	B	19.9	4.8
20	2	1040.	296.	0.	2216.	296.	0.	2216.	4400.	0.	0.	0.	.50	62.	17.9	B	19.9	4.8
21	3	2810.	368.	556.	2584.	368.	556.	2584.	5595.	5.	0.	0.	.46	62.	13.9	B	24.1	4.8
22	2	1850.	0.	0.	2028.	0.	0.	2028.	4400.	0.	0.	0.	.46	62.	16.4	B	17.2	4.8
23	3	2390.	240.	124.	2268.	240.	124.	2268.	5600.	0.	0.	0.	.41	62.	12.2	B	24.1	4.8
24	3	960.	0.	1016.	2144.	0.	1500.	2144.	5600.	0.	0.	0.	.38	62.	11.5	B	17.2	4.8
25	2	1400.	0.	1128.	1128.	0.	1128.	1128.	3600.	0.	0.	0.	.31	62.	9.1	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.53 LOWEST LOS = C AVG = 62. 15.5 17.0 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	82. VEH-HRS	102. PASS-HRS	2232. VEH-HRS	2777. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	26. VEH-HRS	32. PASS-HRS	539. VEH-HRS	671. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	108. VEH-HRS	134. PASS-HRS	2771. VEH-HRS	3447. PASS-HRS
TOTAL TRAV DISTANCE =	5082. VEH-MI.	6322. PASS-MI.	137287. VEH-MI.	170785. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		62. MPH.	
AVERAGE DENSITY =	16. VPMPL		22. VPMPL	
TOTAL FUEL =	309. GALLONS		8215. GALLONS	
TOTAL EMISSIONS =	26. KILOGRAMS		650. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	42.	25.62	9.71	0.15	0.92	0.16	1.23

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1528.	72.	1528.	1528.	72.	1528.	4100.	0.	0.	0.	.37	62.	12.3	B	13.6	4.8
2	2	1970.	0.	0.	1456.	0.	0.	1456.	4100.	0.	0.	0.	.36	62.	11.7	B	13.6	4.8
3	2	1830.	228.	156.	1684.	228.	156.	1684.	4100.	0.	0.	0.	.41	62.	13.6	B	13.6	4.8
4	2	2010.	0.	0.	1528.	0.	0.	1528.	4400.	0.	0.	0.	.35	62.	12.3	B	13.6	4.8
5	2	2445.	316.	320.	1844.	316.	320.	1844.	4100.	0.	0.	0.	.45	62.	14.9	B	13.6	4.8
6	2	1890.	0.	0.	1524.	0.	0.	1524.	4400.	0.	0.	0.	.35	62.	12.3	B	13.6	4.8
7	2	5320.	392.	448.	1916.	392.	448.	1916.	4100.	0.	0.	0.	.47	62.	15.5	B	13.6	4.8
8	2	880.	0.	0.	1468.	0.	0.	1468.	4400.	0.	0.	0.	.33	62.	11.8	B	14.9	4.8
9	2	1125.	136.	0.	1604.	136.	0.	1604.	4400.	0.	0.	0.	.36	62.	12.9	B	19.9	4.8
10	2	6320.	300.	380.	1904.	300.	380.	1904.	4250.	0.	0.	0.	.45	62.	15.4	B	19.9	4.8
11	2	2050.	0.	0.	1524.	0.	0.	1524.	4100.	0.	0.	0.	.37	62.	12.3	B	19.9	4.8
12	2	2560.	396.	0.	1920.	396.	0.	1920.	4400.	0.	0.	0.	.44	62.	15.5	B	17.2	4.8
13	2	1400.	0.	376.	1920.	0.	376.	1920.	4400.	0.	0.	0.	.44	62.	15.5	B	32.3	4.8
14	2	1320.	0.	0.	1544.	0.	0.	1544.	4400.	0.	0.	0.	.35	62.	12.5	B	14.9	4.8
15	3	540.	672.	840.	2216.	672.	840.	2216.	5184.	416.	0.	0.	.43	62.	11.9	B	12.6	4.8
16	2	1230.	0.	0.	1376.	0.	0.	1376.	4400.	0.	0.	0.	.31	62.	11.1	B	19.9	4.8
17	2	890.	480.	0.	1856.	480.	0.	1856.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
18	2	4840.	176.	320.	2032.	176.	320.	2032.	4400.	0.	0.	0.	.46	62.	16.4	B	17.2	4.8
19	2	530.	0.	0.	1712.	0.	0.	1712.	3800.	0.	0.	0.	.45	62.	13.8	B	19.9	4.8
20	2	1040.	300.	0.	2012.	300.	0.	2012.	4400.	0.	0.	0.	.46	62.	16.2	B	19.9	4.8
21	3	2810.	364.	696.	2376.	364.	696.	2376.	5600.	0.	0.	0.	.42	62.	12.8	B	24.1	4.8
22	2	1850.	0.	0.	1680.	0.	0.	1680.	4400.	0.	0.	0.	.38	62.	13.5	B	17.2	4.8
23	3	2390.	188.	96.	1868.	188.	96.	1868.	5600.	0.	0.	0.	.33	62.	10.0	A	24.1	4.8
24	3	960.	0.	1136.	1772.	0.	1136.	1772.	5600.	0.	0.	0.	.32	62.	9.5	A	17.2	4.8
25	2	1400.	0.	636.	636.	0.	636.	636.	3600.	0.	0.	0.	.18	62.	5.1	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.47 LOWEST LOS = B AVG = 62. 13.6 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	72. VEH-HRS	89. PASS-HRS	2304. VEH-HRS	2866. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	5. VEH-HRS	7. PASS-HRS	544. VEH-HRS	677. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	77. VEH-HRS	96. PASS-HRS	2848. VEH-HRS	3543. PASS-HRS
TOTAL TRAV DISTANCE =	4446. VEH-MI.	5531. PASS-MI.	141734. VEH-MI.	176317. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		62. MPH.	
AVERAGE DENSITY =	14. VPMPL		22. VPMPL	
TOTAL FUEL =	265. GALLONS		8480. GALLONS	
TOTAL EMISSIONS =	22. KILOGRAMS		672. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	0.	5.25	1.99	0.03	0.19	0.03	0.25

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1100.	64.	1100.	1100.	64.	1100.	4100.	0.	0.	0.	.27	62.	8.9	A	13.6	4.8
2	2	1970.	0.	0.	1036.	0.	0.	1036.	4100.	0.	0.	0.	.25	62.	8.4	A	13.6	4.8
3	2	1830.	228.	104.	1264.	228.	104.	1264.	4100.	0.	0.	0.	.31	62.	10.2	A	13.6	4.8
4	2	2010.	0.	0.	1160.	0.	0.	1160.	4400.	0.	0.	0.	.26	62.	9.4	A	13.6	4.8
5	2	2445.	316.	372.	1476.	316.	372.	1476.	4100.	0.	0.	0.	.36	62.	11.9	B	13.6	4.8
6	2	1890.	0.	0.	1104.	0.	0.	1104.	4400.	0.	0.	0.	.25	62.	8.9	A	13.6	4.8
7	2	5320.	512.	336.	1616.	512.	336.	1616.	4100.	0.	0.	0.	.39	62.	13.0	B	13.6	4.8
8	2	880.	0.	0.	1280.	0.	0.	1280.	4400.	0.	0.	0.	.29	62.	10.3	A	14.9	4.8
9	2	1125.	116.	0.	1396.	116.	0.	1396.	4400.	0.	0.	0.	.32	62.	11.3	B	19.9	4.8
10	2	6320.	288.	300.	1684.	288.	300.	1684.	4250.	0.	0.	0.	.40	62.	13.6	B	19.9	4.8
11	2	2050.	0.	0.	1384.	0.	0.	1384.	4100.	0.	0.	0.	.34	62.	11.2	B	19.9	4.8
12	2	2560.	536.	0.	1920.	536.	0.	1920.	4400.	0.	0.	0.	.44	62.	15.5	B	17.2	4.8
13	2	1400.	0.	300.	1920.	0.	300.	1920.	4400.	0.	0.	0.	.44	62.	15.5	B	32.3	4.8
14	2	1320.	0.	0.	1620.	0.	0.	1620.	4400.	0.	0.	0.	.37	62.	13.1	B	14.9	4.8
15	3	540.	604.	980.	2224.	604.	980.	2224.	5260.	340.	0.	0.	.42	62.	12.0	B	12.6	4.8
16	2	1230.	0.	0.	1244.	0.	0.	1244.	4400.	0.	0.	0.	.28	62.	10.0	A	19.9	4.8
17	2	890.	612.	0.	1856.	612.	0.	1856.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
18	2	4840.	124.	364.	1980.	124.	364.	1980.	4400.	0.	0.	0.	.45	62.	16.0	B	17.2	4.8
19	2	530.	0.	0.	1616.	0.	0.	1616.	3800.	0.	0.	0.	.43	62.	13.0	B	19.9	4.8
20	2	1040.	256.	0.	1872.	256.	0.	1872.	4400.	0.	0.	0.	.43	62.	15.1	B	19.9	4.8
21	3	2810.	372.	540.	2244.	372.	540.	2244.	5600.	0.	0.	0.	.40	62.	12.1	B	24.1	4.8
22	2	1850.	0.	0.	1704.	0.	0.	1704.	4400.	0.	0.	0.	.39	62.	13.7	B	17.2	4.8
23	3	2390.	216.	104.	1920.	216.	104.	1920.	5600.	0.	0.	0.	.34	62.	10.3	A	24.1	4.8
24	3	960.	0.	1028.	1816.	0.	1028.	1816.	5600.	0.	0.	0.	.32	62.	9.8	A	17.2	4.8
25	2	1400.	0.	788.	788.	0.	788.	788.	3600.	0.	0.	0.	.22	62.	6.4	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.45 LOWEST LOS = B AVG = 62. 12.1 17.2 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	2368. VEH-HRS	2946. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	544. VEH-HRS	677. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	2913. VEH-HRS	3623. PASS-HRS
TOTAL TRAV DISTANCE =	3991. VEH-MI.	4965. PASS-MI.	145725. VEH-MI.	181282. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	12. VPMPL		21. VPMPL	
TOTAL FUEL =	233. GALLONS		8712. GALLONS	
TOTAL EMISSIONS =	19. KILOGRAMS		691. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1096.	56.	1096.	1096.	56.	1096.	4100.	0.	0.	0.	.27	62.	8.8	A	13.6	4.8
2	2	1970.	0.	0.	1040.	0.	0.	1040.	4100.	0.	0.	0.	.25	62.	8.4	A	13.6	4.8
3	2	1830.	168.	92.	1208.	168.	92.	1208.	4100.	0.	0.	0.	.29	62.	9.7	A	13.6	4.8
4	2	2010.	0.	0.	1116.	0.	0.	1116.	4400.	0.	0.	0.	.25	62.	9.0	A	13.6	4.8
5	2	2445.	244.	224.	1360.	244.	224.	1360.	4100.	0.	0.	0.	.33	62.	11.0	A	13.6	4.8
6	2	1890.	0.	0.	1136.	0.	0.	1136.	4400.	0.	0.	0.	.26	62.	9.2	A	13.6	4.8
7	2	5320.	264.	300.	1400.	264.	300.	1400.	4100.	0.	0.	0.	.34	62.	11.3	B	13.6	4.8
8	2	880.	0.	0.	1100.	0.	0.	1100.	4400.	0.	0.	0.	.25	62.	8.9	A	14.9	4.8
9	2	1125.	184.	0.	1284.	184.	0.	1284.	4400.	0.	0.	0.	.29	62.	10.4	A	19.9	4.8
10	2	6320.	324.	240.	1608.	324.	240.	1608.	4250.	0.	0.	0.	.38	62.	13.0	B	19.9	4.8
11	2	2050.	0.	0.	1368.	0.	0.	1368.	4100.	0.	0.	0.	.33	62.	11.0	B	19.9	4.8
12	2	2560.	504.	0.	1872.	504.	0.	1872.	4400.	0.	0.	0.	.43	62.	15.1	B	17.2	4.8
13	2	1400.	0.	224.	1872.	0.	224.	1872.	4400.	0.	0.	0.	.43	62.	15.1	B	32.3	4.8
14	2	1320.	0.	0.	1648.	0.	0.	1648.	4400.	0.	0.	0.	.37	62.	13.3	B	14.9	4.8
15	3	540.	520.	776.	2168.	520.	776.	2168.	5264.	336.	0.	0.	.41	62.	11.7	B	12.6	4.8
16	2	1230.	0.	0.	1392.	0.	0.	1392.	4400.	0.	0.	0.	.32	62.	11.2	B	19.9	4.8
17	2	890.	568.	0.	1960.	568.	0.	1960.	4400.	0.	0.	0.	.45	62.	15.8	B	19.9	4.8
18	2	4840.	184.	392.	2144.	184.	392.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	17.2	4.8
19	2	530.	0.	0.	1752.	0.	0.	1752.	3800.	0.	0.	0.	.46	62.	14.1	B	19.9	4.8
20	2	1040.	276.	0.	2028.	276.	0.	2028.	4400.	0.	0.	0.	.46	62.	16.4	B	19.9	4.8
21	3	2810.	352.	620.	2380.	352.	620.	2380.	5600.	0.	0.	0.	.42	62.	12.8	B	24.1	4.8
22	2	1850.	0.	0.	1760.	0.	0.	1760.	4400.	0.	0.	0.	.40	62.	14.2	B	17.2	4.8
23	3	2390.	228.	60.	1988.	228.	60.	1988.	5600.	0.	0.	0.	.35	62.	10.7	A	24.1	4.8
24	3	960.	0.	908.	1928.	0.	908.	1928.	5600.	0.	0.	0.	.34	62.	10.4	A	17.2	4.8
25	2	1400.	0.	1020.	1020.	0.	1020.	1020.	3600.	0.	0.	0.	.28	62.	8.2	A	19.9	4.8
TOTAL		53000. =	10.0 MILES							MAX(V/C) = 0.49	LOWEST LOS = B		AVG = 62.		12.1		17.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	2432. VEH-HRS	3026. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	544. VEH-HRS	677. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	2977. VEH-HRS	3703. PASS-HRS
TOTAL TRAV DISTANCE =	3984. VEH-MI.	4956. PASS-MI.	149709. VEH-MI.	186238. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	12. VPMPL		21. VPMPL	
TOTAL FUEL =	230. GALLONS		8943. GALLONS	
TOTAL EMISSIONS =	19. KILOGRAMS		710. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	784.	72.	784.	784.	72.	784.	4100.	0.	0.	0.	.19	62.	6.3	A	13.6	4.8
2	2	1970.	0.	0.	712.	0.	0.	712.	4100.	0.	0.	0.	.17	62.	5.7	A	13.6	4.8
3	2	1830.	168.	52.	880.	168.	52.	880.	4100.	0.	0.	0.	.21	62.	7.1	A	13.6	4.8
4	2	2010.	0.	0.	828.	0.	0.	828.	4400.	0.	0.	0.	.19	62.	6.7	A	13.6	4.8
5	2	2445.	308.	148.	1136.	308.	148.	1136.	4100.	0.	0.	0.	.28	62.	9.2	A	13.6	4.8
6	2	1890.	0.	0.	988.	0.	0.	988.	4400.	0.	0.	0.	.22	62.	8.0	A	13.6	4.8
7	2	5320.	340.	340.	1328.	340.	340.	1328.	4100.	0.	0.	0.	.32	62.	10.7	A	13.6	4.8
8	2	880.	0.	0.	988.	0.	0.	988.	4400.	0.	0.	0.	.22	62.	8.0	A	14.9	4.8
9	2	1125.	144.	0.	1132.	144.	0.	1132.	4400.	0.	0.	0.	.26	62.	9.1	A	19.9	4.8
10	2	6320.	280.	168.	1412.	280.	168.	1412.	4250.	0.	0.	0.	.33	62.	11.4	B	19.9	4.8
11	2	2050.	0.	0.	1244.	0.	0.	1244.	4100.	0.	0.	0.	.30	62.	10.0	A	19.9	4.8
12	2	2560.	396.	0.	1640.	396.	0.	1640.	4400.	0.	0.	0.	.37	62.	13.2	B	17.2	4.8
13	2	1400.	0.	236.	1640.	0.	236.	1640.	4400.	0.	0.	0.	.37	62.	13.2	B	32.3	4.8
14	2	1320.	0.	0.	1404.	0.	0.	1404.	4400.	0.	0.	0.	.32	62.	11.3	B	14.9	4.8
15	3	540.	556.	788.	1960.	556.	788.	1960.	5268.	332.	0.	0.	.37	62.	10.5	A	12.6	4.8
16	2	1230.	0.	0.	1172.	0.	0.	1172.	4400.	0.	0.	0.	.27	62.	9.5	A	19.9	4.8
17	2	890.	404.	0.	1576.	404.	0.	1576.	4400.	0.	0.	0.	.36	62.	12.7	B	19.9	4.8
18	2	4840.	160.	272.	1736.	160.	272.	1736.	4400.	0.	0.	0.	.39	62.	14.0	B	17.2	4.8
19	2	530.	0.	0.	1464.	0.	0.	1464.	3800.	0.	0.	0.	.39	62.	11.8	B	19.9	4.8
20	2	1040.	296.	0.	1760.	296.	0.	1760.	4400.	0.	0.	0.	.40	62.	14.2	B	19.9	4.8
21	3	2810.	256.	600.	2016.	256.	600.	2016.	5600.	0.	0.	0.	.36	62.	10.8	A	24.1	4.8
22	2	1850.	0.	0.	1416.	0.	0.	1416.	4400.	0.	0.	0.	.32	62.	11.4	B	17.2	4.8
23	3	2390.	212.	68.	1628.	212.	68.	1628.	5600.	0.	0.	0.	.29	62.	8.8	A	24.1	4.8
24	3	960.	0.	868.	1560.	0.	868.	1560.	5600.	0.	0.	0.	.28	62.	8.4	A	17.2	4.8
25	2	1400.	0.	692.	692.	0.	692.	692.	3600.	0.	0.	0.	.19	62.	5.6	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.40		LOWEST LOS = B	AVG = 62.	10.1		17.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	54. VEH-HRS	67. PASS-HRS	2486. VEH-HRS	3093. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	544. VEH-HRS	677. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	54. VEH-HRS	67. PASS-HRS	3031. VEH-HRS	3770. PASS-HRS
TOTAL TRAV DISTANCE =	3341. VEH-MI.	4157. PASS-MI.	153050. VEH-MI.	190394. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	10. VPMPL		20. VPMPL	
TOTAL FUEL =	193. GALLONS		9136. GALLONS	
TOTAL EMISSIONS =	16. KILOGRAMS		726. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	824.	56.	824.	824.	56.	824.	4100.	0.	0.	0.	.20	62.	6.6	A	13.6	4.8
2	2	1970.	0.	0.	768.	0.	0.	768.	4100.	0.	0.	0.	.19	62.	6.2	A	13.6	4.8
3	2	1830.	112.	60.	880.	112.	60.	880.	4100.	0.	0.	0.	.21	62.	7.1	A	13.6	4.8
4	2	2010.	0.	0.	820.	0.	0.	820.	4400.	0.	0.	0.	.19	62.	6.6	A	13.6	4.8
5	2	2445.	132.	188.	952.	132.	188.	952.	4100.	0.	0.	0.	.23	62.	7.7	A	13.6	4.8
6	2	1890.	0.	0.	764.	0.	0.	764.	4400.	0.	0.	0.	.17	62.	6.2	A	13.6	4.8
7	2	5320.	264.	236.	1028.	264.	236.	1028.	4100.	0.	0.	0.	.25	62.	8.3	A	13.6	4.8
8	2	880.	0.	0.	792.	0.	0.	792.	4400.	0.	0.	0.	.18	62.	6.4	A	14.9	4.8
9	2	1125.	100.	0.	892.	100.	0.	892.	4400.	0.	0.	0.	.20	62.	7.2	A	19.9	4.8
10	2	6320.	148.	140.	1040.	148.	140.	1040.	4250.	0.	0.	0.	.24	62.	8.4	A	19.9	4.8
11	2	2050.	0.	0.	900.	0.	0.	900.	4100.	0.	0.	0.	.22	62.	7.3	A	19.9	4.8
12	2	2560.	384.	0.	1284.	384.	0.	1284.	4400.	0.	0.	0.	.29	62.	10.4	A	17.2	4.8
13	2	1400.	0.	212.	1284.	0.	212.	1284.	4400.	0.	0.	0.	.29	62.	10.4	A	32.3	4.8
14	2	1320.	0.	0.	1072.	0.	0.	1072.	4400.	0.	0.	0.	.24	62.	8.6	A	14.9	4.8
15	3	540.	448.	624.	1520.	448.	624.	1520.	5336.	264.	0.	0.	.28	62.	8.2	A	12.6	4.8
16	2	1230.	0.	0.	896.	0.	0.	896.	4400.	0.	0.	0.	.20	62.	7.2	A	19.9	4.8
17	2	890.	400.	0.	1296.	400.	0.	1296.	4400.	0.	0.	0.	.29	62.	10.5	A	19.9	4.8
18	2	4840.	104.	176.	1400.	104.	176.	1400.	4400.	0.	0.	0.	.32	62.	11.3	B	17.2	4.8
19	2	530.	0.	0.	1224.	0.	0.	1224.	3800.	0.	0.	0.	.32	62.	9.9	A	19.9	4.8
20	2	1040.	252.	0.	1476.	252.	0.	1476.	4400.	0.	0.	0.	.34	62.	11.9	B	19.9	4.8
21	3	2810.	224.	464.	1700.	224.	464.	1700.	5600.	0.	0.	0.	.30	62.	9.1	A	24.1	4.8
22	2	1850.	0.	0.	1236.	0.	0.	1236.	4400.	0.	0.	0.	.28	62.	10.0	A	17.2	4.8
23	3	2390.	172.	28.	1408.	172.	28.	1408.	5600.	0.	0.	0.	.25	62.	7.6	A	24.1	4.8
24	3	960.	0.	804.	1380.	0.	804.	1380.	5600.	0.	0.	0.	.25	62.	7.4	A	17.2	4.8
25	2	1400.	0.	576.	576.	0.	576.	576.	3600.	0.	0.	0.	.16	62.	4.6	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.34		LOWEST LOS = B	AVG = 62.	8.3		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	44. VEH-HRS	55. PASS-HRS	2531. VEH-HRS	3148. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	544. VEH-HRS	677. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	44. VEH-HRS	55. PASS-HRS	3075. VEH-HRS	3825. PASS-HRS
TOTAL TRAV DISTANCE =	2748. VEH-MI.	3418. PASS-MI.	155798. VEH-MI.	193812. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	8. VPMPL		20. VPMPL	
TOTAL FUEL =	160. GALLONS		9295. GALLONS	
TOTAL EMISSIONS =	13. KILOGRAMS		739. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	131.	163.	0.	0.	131.	163.	7991.	9941.	60.9	458.	1.	23.	10.	6:00
2	137.	170.	0.	0.	137.	170.	8274.	10292.	60.4	471.	1.	23.	10.	6:15
3	139.	173.	3.	3.	141.	176.	8409.	10461.	59.5	482.	1.	23.	10.	6:30
4	123.	153.	9.	11.	132.	164.	7575.	9423.	57.5	446.	1.	24.	10.	6:45
5	136.	169.	12.	15.	148.	184.	8283.	10304.	56.1	480.	1.	24.	10.	7:00
6	127.	158.	14.	17.	141.	175.	7832.	9743.	55.6	459.	1.	24.	10.	7:15
7	135.	168.	17.	21.	152.	189.	8241.	10252.	54.2	477.	1.	24.	10.	7:30
8	122.	151.	19.	24.	141.	176.	7514.	9348.	53.2	448.	1.	25.	10.	7:45
9	121.	150.	19.	24.	140.	175.	7485.	9311.	53.3	448.	1.	25.	10.	8:00
10	114.	142.	18.	23.	133.	165.	7078.	8805.	53.3	426.	1.	24.	9.	8:15
11	123.	153.	21.	26.	144.	179.	7606.	9462.	52.7	456.	1.	25.	10.	8:30
12	114.	142.	31.	38.	145.	180.	7084.	8812.	48.9	430.	1.	24.	9.	8:45
13	129.	160.	45.	56.	174.	217.	7954.	9895.	45.7	480.	2.	27.	10.	9:00
14	116.	144.	59.	73.	175.	217.	7179.	8931.	41.1	450.	2.	25.	10.	9:15
15	114.	141.	69.	86.	183.	227.	7035.	8752.	38.5	443.	2.	26.	10.	9:30
16	98.	122.	68.	85.	166.	207.	6086.	7571.	36.6	388.	1.	23.	8.	9:45
17	86.	107.	60.	75.	146.	182.	5336.	6638.	36.5	336.	1.	20.	7.	10:00
18	85.	105.	49.	61.	134.	166.	5244.	6524.	39.3	329.	1.	19.	7.	10:15
19	82.	102.	26.	32.	108.	134.	5082.	6322.	47.2	309.	1.	18.	7.	10:30
20	72.	89.	5.	7.	77.	96.	4446.	5531.	57.8	265.	1.	15.	6.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	64.	80.	0.	0.	64.	80.	3991.	4965.	62.0	233.	1.	13.	5.	11:00
22	64.	80.	0.	0.	64.	80.	3984.	4956.	62.0	230.	1.	13.	5.	11:15
23	54.	67.	0.	0.	54.	67.	3341.	4157.	62.0	193.	1.	11.	4.	11:30
24	44.	55.	0.	0.	44.	55.	2748.	3418.	62.0	160.	0.	9.	4.	11:45
TOTAL	2531.	3148.	544.	677.	3075.	3825.	155798.	193812.	61.6	9295.	30.	507.	202.	

Existing (2019)
Southbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	688.	0.	688.	688.	0.	688.	3850.	0.	0.	0.	.18	50.	6.9	A	17.4	2.3
2	2	2070.	192.	0.	880.	192.	0.	880.	3850.	0.	0.	0.	.23	50.	8.8	A	15.9	2.3
3	3	2300.	348.	52.	1228.	348.	52.	1228.	5700.	0.	0.	0.	.22	55.	7.4	A	14.0	2.4
4	3	1020.	0.	0.	1176.	0.	0.	1176.	5700.	0.	0.	0.	.21	62.	6.3	A	19.9	4.8
5	3	710.	80.	0.	1256.	80.	0.	1256.	5700.	0.	0.	0.	.22	62.	6.8	A	16.1	4.4
6	3	3820.	64.	176.	1320.	64.	176.	1320.	6150.	0.	0.	0.	.21	62.	7.1	A	17.1	4.8
7	2	1220.	0.	0.	1144.	0.	0.	1144.	4400.	0.	0.	0.	.26	62.	9.2	A	18.2	4.4
8	2	4810.	188.	132.	1332.	188.	132.	1332.	4100.	0.	0.	0.	.32	62.	10.7	A	20.6	4.4
9	2	1370.	0.	0.	1200.	0.	0.	1200.	4000.	0.	0.	0.	.30	62.	9.7	A	23.6	4.4
10	2	660.	72.	0.	1272.	72.	0.	1272.	4399.	1.	0.	0.	.29	62.	10.3	A	23.6	4.4
11	3	790.	196.	96.	1468.	196.	96.	1468.	6098.	2.	0.	0.	.24	62.	7.9	A	30.0	4.4
12	2	1460.	0.	0.	1372.	0.	0.	1372.	4100.	0.	0.	0.	.33	62.	11.1	B	20.6	4.4
13	2	1400.	100.	0.	1472.	100.	0.	1472.	3970.	0.	0.	0.	.37	62.	11.9	B	13.6	4.4
14	2	2600.	0.	32.	1472.	0.	32.	1472.	3970.	0.	0.	0.	.37	62.	11.9	B	20.6	4.4
15	2	2010.	0.	0.	1440.	0.	0.	1440.	3900.	0.	0.	0.	.37	62.	11.6	B	14.7	4.4
16	2	6120.	104.	80.	1544.	104.	80.	1544.	3850.	0.	0.	0.	.40	62.	12.5	B	18.2	4.4
17	2	1240.	0.	0.	1464.	0.	0.	1464.	4300.	0.	0.	0.	.34	62.	11.8	B	18.2	4.4
18	2	930.	52.	0.	1516.	52.	0.	1516.	4100.	0.	0.	0.	.37	62.	12.2	B	20.6	4.4
19	2	5330.	56.	48.	1572.	56.	48.	1572.	3950.	0.	0.	0.	.40	62.	12.7	B	20.6	4.4
20	2	2830.	0.	0.	1524.	0.	0.	1524.	3800.	0.	0.	0.	.40	61.	12.5	B	21.1	3.8
21	2	1660.	140.	128.	1664.	140.	128.	1664.	4300.	0.	0.	0.	.39	61.	13.6	B	21.1	3.8
22	2	2270.	0.	0.	1536.	0.	0.	1536.	4400.	0.	0.	0.	.35	62.	12.4	B	20.6	4.4
23	2	3040.	20.	44.	1556.	20.	44.	1556.	4100.	0.	0.	0.	.38	62.	12.5	B	20.6	4.4
24	2	2190.	0.	0.	1512.	0.	0.	1512.	4200.	0.	0.	0.	.36	65.	11.6	B	19.2	6.1
25	3	2400.	52.	1564.	1564.	52.	1564.	1564.	6150.	0.	0.	0.	.25	65.	8.0	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.40		LOWEST LOS = B	AVG = 61.	10.8		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	60. VEH-HRS	69. PASS-HRS	60. VEH-HRS	69. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	60. VEH-HRS	69. PASS-HRS	60. VEH-HRS	69. PASS-HRS
TOTAL TRAV DISTANCE =	3682. VEH-MI.	4271. PASS-MI.	3682. VEH-MI.	4271. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	11. VPMPL		11. VPMPL	
TOTAL FUEL =	195. GALLONS		195. GALLONS	
TOTAL EMISSIONS =	16. KILOGRAMS		16. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	984.	0.	984.	984.	0.	984.	3850.	0.	0.	0.	.26	50.	9.8	A	17.4	2.3
2	2	2070.	196.	0.	1180.	196.	0.	1180.	3850.	0.	0.	0.	.31	50.	11.8	B	15.9	2.3
3	3	2300.	524.	56.	1704.	524.	56.	1704.	5700.	0.	0.	0.	.30	55.	10.3	A	14.0	2.4
4	3	1020.	0.	0.	1648.	0.	0.	1648.	5700.	0.	0.	0.	.29	62.	8.9	A	19.9	4.8
5	3	710.	44.	0.	1692.	44.	0.	1692.	5700.	0.	0.	0.	.30	62.	9.1	A	16.1	4.4
6	3	3820.	84.	192.	1776.	84.	192.	1776.	6150.	0.	0.	0.	.29	62.	9.5	A	17.1	4.8
7	2	1220.	0.	0.	1584.	0.	0.	1584.	4400.	0.	0.	0.	.36	62.	12.8	B	18.2	4.4
8	2	4810.	176.	156.	1760.	176.	156.	1760.	4100.	0.	0.	0.	.43	62.	14.2	B	20.6	4.4
9	2	1370.	0.	0.	1604.	0.	0.	1604.	4000.	0.	0.	0.	.40	62.	12.9	B	23.6	4.4
10	2	660.	40.	0.	1644.	40.	0.	1644.	4398.	2.	0.	0.	.37	62.	13.3	B	23.6	4.4
11	3	790.	156.	104.	1800.	156.	104.	1800.	6098.	2.	0.	0.	.30	62.	9.7	A	30.0	4.4
12	2	1460.	0.	0.	1696.	0.	0.	1696.	4100.	0.	0.	0.	.41	62.	13.7	B	20.6	4.4
13	2	1400.	112.	0.	1808.	112.	0.	1808.	3970.	0.	0.	0.	.46	62.	14.6	B	13.6	4.4
14	2	2600.	0.	48.	1808.	0.	48.	1808.	3970.	0.	0.	0.	.46	62.	14.6	B	20.6	4.4
15	2	2010.	0.	0.	1760.	0.	0.	1760.	3900.	0.	0.	0.	.45	62.	14.2	B	14.7	4.4
16	2	6120.	84.	116.	1844.	84.	116.	1844.	3850.	0.	0.	0.	.48	62.	14.9	B	18.2	4.4
17	2	1240.	0.	0.	1728.	0.	0.	1728.	4300.	0.	0.	0.	.40	62.	13.9	B	18.2	4.4
18	2	930.	84.	0.	1812.	84.	0.	1812.	4100.	0.	0.	0.	.44	62.	14.6	B	20.6	4.4
19	2	5330.	80.	68.	1892.	80.	68.	1892.	3950.	0.	0.	0.	.48	62.	15.3	B	20.6	4.4
20	2	2830.	0.	0.	1824.	0.	0.	1824.	3800.	0.	0.	0.	.48	61.	15.0	B	21.1	3.8
21	2	1660.	132.	100.	1956.	132.	100.	1956.	4300.	0.	0.	0.	.45	61.	16.0	B	21.1	3.8
22	2	2270.	0.	0.	1856.	0.	0.	1856.	4400.	0.	0.	0.	.42	62.	15.0	B	20.6	4.4
23	2	3040.	64.	76.	1920.	64.	76.	1920.	4100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
24	2	2190.	0.	0.	1844.	0.	0.	1844.	4200.	0.	0.	0.	.44	65.	14.2	B	19.2	6.1
25	3	2400.	68.	1912.	1912.	68.	1912.	1912.	6150.	0.	0.	0.	.31	65.	9.8	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.48		LOWEST LOS = B	AVG = 61.	13.5		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	75. VEH-HRS	87. PASS-HRS	135. VEH-HRS	156. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	75. VEH-HRS	87. PASS-HRS	135. VEH-HRS	156. PASS-HRS
TOTAL TRAV DISTANCE =	4600. VEH-MI.	5336. PASS-MI.	8282. VEH-MI.	9607. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	13. VPMPL		12. VPMPL	
TOTAL FUEL =	244. GALLONS		439. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		36. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1384.	0.	1384.	1384.	0.	1384.	3850.	0.	0.	0.	.36	50.	13.8	B	17.4	2.3
2	2	2070.	276.	0.	1660.	276.	0.	1660.	3850.	0.	0.	0.	.43	50.	16.6	B	15.9	2.3
3	3	2300.	720.	76.	2380.	720.	76.	2380.	5697.	3.	0.	0.	.42	55.	14.4	B	14.0	2.4
4	3	1020.	0.	0.	2304.	0.	0.	2304.	5700.	0.	0.	0.	.40	62.	12.4	B	19.9	4.8
5	3	710.	88.	0.	2392.	88.	0.	2392.	5700.	0.	0.	0.	.42	62.	12.9	B	16.1	4.4
6	3	3820.	124.	372.	2516.	124.	372.	2516.	6150.	0.	0.	0.	.41	62.	13.5	B	17.1	4.8
7	2	1220.	0.	0.	2144.	0.	0.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	18.2	4.4
8	2	4810.	272.	212.	2416.	272.	212.	2416.	4100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
9	2	1370.	0.	0.	2204.	0.	0.	2204.	4000.	0.	0.	0.	.55	62.	17.8	B	23.6	4.4
10	2	660.	96.	0.	2300.	96.	0.	2300.	4398.	2.	0.	0.	.52	62.	18.5	C	23.6	4.4
11	3	790.	328.	148.	2628.	328.	148.	2628.	6066.	34.	0.	0.	.43	62.	14.1	B	30.0	4.4
12	2	1460.	0.	0.	2480.	0.	0.	2480.	4100.	0.	0.	0.	.60	62.	20.0	C	20.6	4.4
13	2	1400.	204.	0.	2684.	204.	0.	2684.	3970.	0.	0.	0.	.68	62.	21.6	C	13.6	4.4
14	2	2600.	0.	72.	2684.	0.	72.	2684.	3970.	0.	0.	0.	.68	62.	21.6	C	20.6	4.4
15	2	2010.	0.	0.	2612.	0.	0.	2612.	3900.	0.	0.	0.	.67	62.	21.1	C	14.7	4.4
16	2	6120.	92.	112.	2704.	92.	112.	2704.	3850.	0.	0.	0.	.70	62.	21.8	C	18.2	4.4
17	2	1240.	0.	0.	2592.	0.	0.	2592.	4300.	0.	0.	0.	.60	62.	20.9	C	18.2	4.4
18	2	930.	132.	0.	2724.	132.	0.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	20.6	4.4
19	2	5330.	84.	108.	2808.	84.	108.	2808.	3950.	0.	0.	0.	.71	62.	22.6	C	20.6	4.4
20	2	2830.	0.	0.	2700.	0.	0.	2700.	3800.	0.	0.	0.	.71	61.	22.1	C	21.1	3.8
21	2	1660.	140.	168.	2840.	140.	168.	2840.	4300.	0.	0.	0.	.66	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	2672.	0.	0.	2672.	4400.	0.	0.	0.	.61	62.	21.5	C	20.6	4.4
23	2	3040.	92.	48.	2764.	92.	48.	2764.	4100.	0.	0.	0.	.67	62.	22.3	C	20.6	4.4
24	2	2190.	0.	0.	2716.	0.	0.	2716.	4200.	0.	0.	0.	.65	65.	20.9	C	19.2	6.1
25	3	2400.	76.	2792.	2792.	76.	2792.	2792.	6150.	0.	0.	0.	.45	65.	14.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.71 LOWEST LOS = C AVG = 61. 19.5 18.8 4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	108. VEH-HRS	126. PASS-HRS	243. VEH-HRS	282. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	108. VEH-HRS	126. PASS-HRS	243. VEH-HRS	282. PASS-HRS
TOTAL TRAV DISTANCE =	6650. VEH-MI.	7714. PASS-MI.	14932. VEH-MI.	17322. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		15. VPMPL	
TOTAL FUEL =	353. GALLONS		792. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		66. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1904.	0.	1904.	1904.	0.	1904.	3850.	0.	0.	0.	.49	50.	19.0	C	17.4	2.3
2	2	2070.	368.	0.	2272.	368.	0.	2272.	3847.	3.	0.	0.	.59	50.	22.7	C	15.9	2.3
3	3	2300.	860.	104.	3132.	860.	104.	3132.	5666.	34.	0.	0.	.55	55.	19.0	C	14.0	2.4
4	3	1020.	0.	0.	3028.	0.	0.	3028.	5700.	0.	0.	0.	.53	62.	16.3	B	19.9	4.8
5	3	710.	124.	0.	3152.	124.	0.	3152.	5700.	0.	0.	0.	.55	62.	16.9	B	16.1	4.4
6	3	3820.	240.	620.	3392.	240.	620.	3392.	6150.	0.	0.	0.	.55	62.	18.2	C	17.1	4.8
7	2	1220.	0.	0.	2772.	0.	0.	2772.	4400.	0.	0.	0.	.63	62.	22.4	C	18.2	4.4
8	2	4810.	320.	340.	3092.	320.	340.	3092.	4100.	0.	0.	0.	.75	62.	25.1	C	20.7	4.2
9	2	1370.	0.	0.	2752.	0.	0.	2752.	4000.	0.	0.	0.	.69	62.	22.2	C	23.6	4.4
10	2	660.	100.	0.	2852.	100.	0.	2852.	4395.	5.	0.	0.	.65	62.	23.0	C	23.6	4.4
11	3	790.	352.	336.	3204.	352.	336.	3204.	5853.	247.	0.	0.	.55	62.	17.2	B	30.0	4.4
12	2	1460.	0.	0.	2868.	0.	0.	2868.	4100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
13	2	1400.	212.	0.	3080.	212.	0.	3080.	3970.	0.	0.	0.	.78	61.	25.1	C	13.7	4.0
14	2	2600.	0.	196.	3080.	0.	196.	3080.	3970.	0.	0.	0.	.78	61.	25.1	C	20.9	4.0
15	2	2010.	0.	0.	2884.	0.	0.	2884.	3900.	0.	0.	0.	.74	62.	23.3	C	14.7	4.4
16	2	6120.	200.	192.	3084.	200.	192.	3084.	3850.	0.	0.	0.	.80	61.	25.3	C	18.6	3.8
17	2	1240.	0.	0.	2892.	0.	0.	2892.	4300.	0.	0.	0.	.67	62.	23.3	C	18.2	4.4
18	2	930.	168.	0.	3060.	168.	0.	3060.	4100.	0.	0.	0.	.75	62.	24.7	C	20.6	4.4
19	2	5330.	144.	128.	3204.	144.	128.	3204.	3950.	0.	0.	0.	.81	61.	26.4	D	21.2	3.6
20	2	2830.	0.	0.	3076.	0.	0.	3076.	3800.	0.	0.	0.	.81	61.	25.2	C	21.1	3.8
21	2	1660.	312.	356.	3388.	312.	356.	3388.	4300.	0.	0.	0.	.79	60.	28.0	D	21.4	3.4
22	2	2270.	0.	0.	3032.	0.	0.	3032.	4400.	0.	0.	0.	.69	62.	24.5	C	20.6	4.4
23	2	3040.	108.	72.	3140.	108.	72.	3140.	4100.	0.	0.	0.	.77	62.	25.5	C	20.8	4.1
24	2	2190.	0.	0.	3068.	0.	0.	3068.	4200.	0.	0.	0.	.73	64.	23.8	C	19.4	5.8
25	3	2400.	88.	3156.	3156.	88.	3156.	3156.	6150.	0.	0.	0.	.51	65.	16.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 61.	23.3		19.0	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	151. PASS-HRS	373. VEH-HRS	433. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	130. VEH-HRS	151. PASS-HRS	373. VEH-HRS	433. PASS-HRS
TOTAL TRAV DISTANCE =	7922. VEH-MI.	9190. PASS-MI.	22855. VEH-MI.	26511. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		17. VPMPL	
TOTAL FUEL =	418. GALLONS		1209. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		98. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	836.	0.	836.	836.	0.	836.	3850.	0.	0.	0.	.22	50.	8.4	A	17.4	2.3
2	2	2070.	476.	0.	1312.	476.	0.	1312.	3850.	0.	0.	0.	.34	50.	13.1	B	15.9	2.3
3	3	2300.	1048.	160.	2360.	1048.	160.	2360.	5643.	57.	0.	0.	.42	55.	14.3	B	14.0	2.4
4	3	1020.	0.	0.	2200.	0.	0.	2200.	5700.	0.	0.	0.	.39	62.	11.8	B	19.9	4.8
5	3	710.	132.	0.	2332.	132.	0.	2332.	5700.	0.	0.	0.	.41	62.	12.5	B	16.1	4.4
6	3	3820.	348.	536.	2680.	348.	536.	2680.	6150.	0.	0.	0.	.44	62.	14.4	B	17.1	4.8
7	2	1220.	0.	0.	2144.	0.	0.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	18.2	4.4
8	2	4810.	400.	356.	2544.	400.	356.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	20.6	4.4
9	2	1370.	0.	0.	2188.	0.	0.	2188.	4000.	0.	0.	0.	.55	62.	17.6	B	23.6	4.4
10	2	660.	112.	0.	2300.	112.	0.	2300.	4393.	7.	0.	0.	.52	62.	18.5	C	23.6	4.4
11	3	790.	548.	440.	2848.	548.	440.	2848.	5735.	365.	0.	0.	.50	62.	15.3	B	30.0	4.4
12	2	1460.	0.	0.	2408.	0.	0.	2408.	4100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
13	2	1400.	312.	0.	2720.	312.	0.	2720.	3970.	0.	0.	0.	.69	62.	21.9	C	13.6	4.4
14	2	2600.	0.	196.	2720.	0.	196.	2720.	3970.	0.	0.	0.	.69	62.	21.9	C	20.6	4.4
15	2	2010.	0.	0.	2524.	0.	0.	2524.	3900.	0.	0.	0.	.65	62.	20.4	C	14.7	4.4
16	2	6120.	216.	272.	2740.	216.	272.	2740.	3850.	0.	0.	0.	.71	62.	22.1	C	18.2	4.4
17	2	1240.	0.	0.	2468.	0.	0.	2468.	4300.	0.	0.	0.	.57	62.	19.9	C	18.2	4.4
18	2	930.	232.	0.	2700.	232.	0.	2700.	4100.	0.	0.	0.	.66	62.	21.8	C	20.6	4.4
19	2	5330.	200.	212.	2900.	200.	212.	2900.	3950.	0.	0.	0.	.73	62.	23.4	C	20.6	4.4
20	2	2830.	0.	0.	2688.	0.	0.	2688.	3800.	0.	0.	0.	.71	61.	22.0	C	21.1	3.8
21	2	1660.	520.	644.	3208.	520.	644.	3208.	4071.	229.	0.	0.	.79	60.	26.5	D	21.4	3.4
22	2	2270.	0.	0.	2564.	0.	0.	2564.	4400.	0.	0.	0.	.58	62.	20.7	C	20.6	4.4
23	2	3040.	140.	100.	2704.	140.	100.	2704.	4100.	0.	0.	0.	.66	62.	21.8	C	20.6	4.4
24	2	2190.	0.	0.	2604.	0.	0.	2604.	4200.	0.	0.	0.	.62	65.	20.0	C	19.2	6.1
25	3	2400.	112.	2716.	2716.	112.	2716.	2716.	6150.	0.	0.	0.	.44	65.	13.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.79		LOWEST LOS = D	AVG = 62.	19.5		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	108. VEH-HRS	126. PASS-HRS	481. VEH-HRS	558. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	108. VEH-HRS	126. PASS-HRS	481. VEH-HRS	558. PASS-HRS
TOTAL TRAV DISTANCE =	6666. VEH-MI.	7732. PASS-MI.	29520. VEH-MI.	34243. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		17. VPMPL	
TOTAL FUEL =	353. GALLONS		1562. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		128. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1072.	0.	1072.	1072.	0.	1072.	3850.	0.	0.	0.	.28	50.	10.7	A	17.4	2.3
2	2	2070.	588.	0.	1660.	588.	0.	1660.	3850.	0.	0.	0.	.43	50.	16.6	B	15.9	2.3
3	3	2300.	1424.	244.	3084.	1424.	244.	3084.	5575.	125.	0.	0.	.55	55.	18.7	C	14.0	2.4
4	3	1020.	0.	0.	2840.	0.	0.	2840.	5700.	0.	0.	0.	.50	62.	15.3	B	19.9	4.8
5	3	710.	192.	0.	3032.	192.	0.	3032.	5700.	0.	0.	0.	.53	62.	16.3	B	16.1	4.4
6	3	3820.	336.	792.	3368.	336.	792.	3368.	6150.	0.	0.	0.	.55	62.	18.1	C	17.1	4.8
7	2	1220.	0.	0.	2576.	0.	0.	2576.	4400.	0.	0.	0.	.59	62.	20.8	C	18.2	4.4
8	2	4810.	456.	388.	3032.	456.	388.	3032.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
9	2	1370.	0.	0.	2644.	0.	0.	2644.	4000.	0.	0.	0.	.66	62.	21.3	C	23.6	4.4
10	2	660.	156.	0.	2800.	156.	0.	2800.	4389.	11.	0.	0.	.64	62.	22.6	C	23.6	4.4
11	3	790.	492.	536.	3292.	492.	536.	3292.	5675.	425.	0.	0.	.58	62.	17.7	B	30.0	4.4
12	2	1460.	0.	0.	2756.	0.	0.	2756.	4100.	0.	0.	0.	.67	62.	22.2	C	20.6	4.4
13	2	1400.	396.	0.	3152.	396.	0.	3152.	3970.	0.	0.	0.	.79	61.	25.8	C	13.8	3.8
14	2	2600.	0.	456.	3152.	0.	456.	3152.	3970.	0.	0.	0.	.79	61.	25.8	C	21.0	3.8
15	2	2010.	0.	0.	2696.	0.	0.	2696.	3900.	0.	0.	0.	.69	62.	21.7	C	14.7	4.4
16	2	6120.	304.	308.	3000.	304.	308.	3000.	3850.	0.	0.	0.	.78	62.	24.2	C	18.2	4.4
17	2	1240.	0.	0.	2692.	0.	0.	2692.	4300.	0.	0.	0.	.63	62.	21.7	C	18.2	4.4
18	2	930.	344.	0.	3036.	344.	0.	3036.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
19	2	5330.	172.	292.	3208.	172.	292.	3208.	3950.	0.	0.	0.	.81	61.	26.4	D	21.2	3.6
20	2	2830.	0.	0.	2916.	0.	0.	2916.	3800.	0.	0.	0.	.77	61.	23.9	C	21.1	3.8
21	2	1660.	524.	536.	3440.	524.	536.	3440.	4100.	200.	0.	0.	.84	59.	28.9	D	21.8	3.0
22	2	2270.	0.	0.	2904.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	20.6	4.4
23	2	3040.	316.	180.	3220.	316.	180.	3220.	4100.	0.	0.	0.	.79	61.	26.3	D	21.0	3.9
24	2	2190.	0.	0.	3040.	0.	0.	3040.	4200.	0.	0.	0.	.72	65.	23.6	C	19.4	5.8
25	3	2400.	144.	3184.	3184.	144.	3184.	3184.	6150.	0.	0.	0.	.52	65.	16.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.84		LOWEST LOS = D	AVG = 61.	22.6		19.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	126. VEH-HRS	146. PASS-HRS	608. VEH-HRS	705. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	126. VEH-HRS	146. PASS-HRS	608. VEH-HRS	705. PASS-HRS
TOTAL TRAV DISTANCE =	7722. VEH-MI.	8958. PASS-MI.	37242. VEH-MI.	43201. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		18. VPMPL	
TOTAL FUEL =	407. GALLONS		1969. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		160. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	956.	0.	956.	956.	0.	956.	3850.	0.	0.	0.	.25	50.	9.6	A	17.4	2.3
2	2	2070.	788.	0.	1744.	788.	0.	1744.	3850.	0.	0.	0.	.45	50.	17.4	B	15.9	2.3
3	3	2300.	1652.	300.	3396.	1652.	300.	3396.	5548.	152.	0.	0.	.61	55.	20.6	C	14.0	2.4
4	3	1020.	0.	0.	3096.	0.	0.	3096.	5700.	0.	0.	0.	.54	62.	16.6	B	19.9	4.8
5	3	710.	256.	0.	3352.	256.	0.	3352.	5700.	0.	0.	0.	.59	62.	18.0	C	16.1	4.4
6	3	3820.	372.	768.	3724.	372.	768.	3724.	6150.	0.	0.	0.	.61	62.	20.0	C	17.1	4.8
7	2	1220.	0.	0.	2956.	0.	0.	2956.	4400.	0.	0.	0.	.67	62.	23.8	C	18.2	4.4
8	2	4810.	660.	500.	3616.	660.	500.	3616.	4100.	0.	0.	0.	.88	59.	30.8	D	22.0	2.9
9	2	1370.	0.	0.	3116.	0.	0.	3116.	4000.	0.	0.	0.	.78	61.	25.4	C	24.0	4.0
10	2	660.	228.	0.	3344.	228.	0.	3344.	4385.	15.	0.	0.	.76	62.	27.2	D	23.8	4.1
11	3	790.	628.	576.	3972.	628.	576.	3972.	5599.	501.	0.	0.	.71	62.	21.4	C	30.0	4.4
12	2	1460.	0.	0.	3396.	0.	0.	3396.	4100.	0.	0.	0.	.83	60.	28.1	D	21.4	3.4
13	2	1400.	376.	0.	3772.	376.	0.	3772.	3942.	28.	0.	0.	.96	55.	34.5	D	15.2	2.0
14	2	2600.	0.	912.	3772.	0.	912.	3772.	3942.	28.	0.	0.	.96	55.	34.5	D	23.2	2.0
15	2	2010.	0.	0.	2860.	0.	0.	2860.	3900.	0.	0.	0.	.73	62.	23.1	C	14.7	4.4
16	2	6120.	364.	316.	3224.	364.	316.	3224.	3850.	0.	0.	0.	.84	60.	26.8	D	19.0	3.3
17	2	1240.	0.	0.	2908.	0.	0.	2908.	4300.	0.	0.	0.	.68	62.	23.5	C	18.2	4.4
18	2	930.	252.	0.	3160.	252.	0.	3160.	4100.	0.	0.	0.	.77	61.	25.7	C	20.8	4.0
19	2	5330.	152.	264.	3312.	152.	264.	3312.	3950.	0.	0.	0.	.84	60.	27.6	D	21.6	3.2
20	2	2830.	0.	0.	3048.	0.	0.	3048.	3800.	0.	0.	0.	.80	61.	25.0	C	21.1	3.8
21	2	1660.	460.	376.	3508.	460.	376.	3508.	4267.	33.	0.	0.	.82	60.	29.3	D	21.7	3.1
22	2	2270.	0.	0.	3132.	0.	0.	3132.	4400.	0.	0.	0.	.71	62.	25.3	C	20.6	4.3
23	2	3040.	316.	196.	3448.	316.	196.	3448.	4100.	0.	0.	0.	.84	60.	28.7	D	21.6	3.2
24	2	2190.	0.	0.	3252.	0.	0.	3252.	4200.	0.	0.	0.	.77	64.	25.5	C	19.7	5.4
25	3	2400.	196.	3448.	3448.	196.	3448.	3448.	6150.	0.	0.	0.	.56	65.	17.7	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.96		LOWEST LOS = D	AVG = 60.	25.4		19.5	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	142. VEH-HRS	165. PASS-HRS	750. VEH-HRS	870. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	165. PASS-HRS	750. VEH-HRS	870. PASS-HRS
TOTAL TRAV DISTANCE =	8496. VEH-MI.	9855. PASS-MI.	45738. VEH-MI.	53057. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		19. VPMPL	
TOTAL FUEL =	436. GALLONS		2406. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		191. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1232.	0.	1232.	1232.	0.	1232.	3850.	0.	0.	0.	.32	50.	12.3	B	17.4	2.3
2	2	2070.	748.	0.	1980.	748.	0.	1980.	3850.	0.	0.	0.	.51	50.	19.8	C	15.9	2.3
3	3	2300.	1672.	344.	3652.	1672.	344.	3652.	5512.	188.	0.	0.	.66	55.	22.1	C	14.0	2.4
4	3	1020.	0.	0.	3308.	0.	0.	3308.	5700.	0.	0.	0.	.58	62.	17.8	B	19.9	4.8
5	3	710.	288.	0.	3596.	288.	0.	3596.	5700.	0.	0.	0.	.63	62.	19.3	C	16.1	4.4
6	3	3820.	408.	832.	4004.	408.	832.	4004.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3172.	0.	0.	3172.	4400.	0.	0.	0.	.72	62.	25.6	C	18.2	4.3
8	2	4810.	656.	536.	3828.	656.	536.	3828.	4100.	0.	0.	0.	.93	56.	34.1	D	22.8	2.2
9	2	1370.	0.	0.	3292.	0.	0.	3292.	4000.	0.	0.	0.	.82	61.	27.2	D	24.5	3.5
10	2	660.	292.	0.	3584.	292.	0.	3584.	4378.	22.	0.	0.	.82	61.	29.6	D	24.4	3.5
11	3	790.	696.	696.	4280.	696.	696.	4165.	5490.	610.	* 88.	115.	.76	61.	22.7	F	30.0	4.4
12	2	1460.	0.	0.	3584.	0.	0.	3469.	4100.	0.	** 1460.	115.	.85	31.	55.3	F	20.4	3.4
13	2	1400.	400.	0.	3984.	400.	0.	3869.	3869.	101.	0.	0.	1.00	52.	37.5	E	15.7	2.0
14	2	2600.	0.	1100.	3984.	0.	1068.	3869.	3869.	101.	0.	0.	1.00	52.	37.5	E	23.9	2.0
15	2	2010.	0.	0.	2884.	0.	0.	2801.	3900.	0.	0.	0.	.72	62.	22.6	C	14.7	4.4
16	2	6120.	412.	376.	3296.	412.	367.	3213.	3850.	0.	0.	0.	.83	60.	26.7	D	19.0	3.3
17	2	1240.	0.	0.	2920.	0.	0.	2846.	4300.	0.	0.	0.	.66	62.	23.0	C	18.2	4.4
18	2	930.	308.	0.	3228.	308.	0.	3154.	4100.	0.	0.	0.	.77	61.	25.7	C	20.8	4.1
19	2	5330.	152.	328.	3380.	152.	321.	3306.	3950.	0.	0.	0.	.84	60.	27.5	D	21.6	3.3
20	2	2830.	0.	0.	3052.	0.	0.	2986.	3800.	0.	0.	0.	.79	61.	24.5	C	21.1	3.8
21	2	1660.	620.	440.	3672.	620.	432.	3606.	4136.	164.	0.	0.	.87	58.	30.8	D	22.1	2.8
22	2	2270.	0.	0.	3232.	0.	0.	3173.	4400.	0.	0.	0.	.72	62.	25.6	C	20.6	4.3
23	2	3040.	296.	316.	3528.	296.	311.	3469.	4100.	0.	0.	0.	.85	60.	29.0	D	21.7	3.2
24	2	2190.	0.	0.	3212.	0.	0.	3159.	4200.	0.	0.	0.	.75	64.	24.6	C	19.5	5.6
25	3	2400.	200.	3412.	3412.	200.	3359.	3359.	6150.	0.	0.	0.	.55	65.	17.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 58.	27.1		19.5	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	151. VEH-HRS	175. PASS-HRS	901. VEH-HRS	1045. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	151. VEH-HRS	175. PASS-HRS	901. VEH-HRS	1045. PASS-HRS
TOTAL TRAV DISTANCE =	8714. VEH-MI.	10108. PASS-MI.	54452. VEH-MI.	63165. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		60. MPH.	
AVERAGE DENSITY =	27. VPMPL		20. VPMPL	
TOTAL FUEL =	446. GALLONS		2851. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		222. KILOGRAMS	

QUEUE CLEAR SECTION 12 FT= 0

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2208.	0.	2208.	2208.	0.	2208.	3850.	0.	0.	0.	.57	50.	22.1	C	17.4	2.3
2	2	2070.	632.	0.	2840.	632.	0.	2840.	3833.	17.	0.	0.	.74	50.	28.4	D	15.9	2.3
3	3	2300.	1508.	380.	4348.	1508.	380.	4348.	5431.	269.	0.	0.	.80	55.	26.4	D	14.0	2.4
4	3	1020.	0.	0.	3968.	0.	0.	3968.	5700.	0.	0.	0.	.70	62.	21.3	C	19.9	4.8
5	3	710.	224.	0.	4192.	224.	0.	4192.	5700.	0.	0.	0.	.74	62.	22.5	C	16.1	4.4
6	3	3820.	292.	1044.	4484.	292.	1044.	4484.	6139.	11.	0.	0.	.73	62.	24.1	C	17.1	4.8
7	2	1220.	0.	0.	3440.	0.	0.	3440.	4400.	0.	0.	0.	.78	61.	28.1	D	18.5	4.0
8	2	4810.	576.	808.	4016.	576.	808.	4016.	4100.	0.	0.	0.	.98	53.	37.8	E	23.6	2.0
9	2	1370.	0.	0.	3208.	0.	0.	3208.	4000.	0.	0.	0.	.80	61.	26.3	D	24.2	3.8
10	2	660.	220.	0.	3428.	220.	0.	3428.	4376.	24.	0.	0.	.78	61.	28.0	D	24.0	3.9
11	3	790.	660.	952.	4088.	660.	952.	4088.	5564.	536.	0.	0.	.73	61.	22.3	C	30.0	4.4
12	2	1460.	0.	0.	3136.	0.	0.	3277.	4100.	0.	0.	-141.	.80	28.	59.3	F	19.2	4.2
13	2	1400.	460.	0.	3596.	460.	0.	3737.	3952.	18.	0.	0.	.95	55.	33.7	D	15.1	2.1
14	2	2600.	0.	804.	3596.	0.	836.	3737.	3952.	18.	0.	0.	.95	55.	33.7	D	23.0	2.1
15	2	2010.	0.	0.	2792.	0.	0.	2902.	3900.	0.	0.	0.	.74	62.	23.4	C	14.7	4.4
16	2	6120.	352.	468.	3144.	352.	484.	3254.	3850.	0.	0.	0.	.85	60.	27.2	D	19.1	3.2
17	2	1240.	0.	0.	2676.	0.	0.	2769.	4300.	0.	0.	0.	.64	62.	22.3	C	18.2	4.4
18	2	930.	328.	0.	3004.	328.	0.	3097.	4100.	0.	0.	0.	.76	62.	25.1	C	20.8	4.1
19	2	5330.	164.	368.	3168.	164.	379.	3261.	3950.	0.	0.	0.	.83	60.	27.0	D	21.4	3.4
20	2	2830.	0.	0.	2800.	0.	0.	2883.	3800.	0.	0.	0.	.76	61.	23.6	C	21.1	3.8
21	2	1660.	444.	364.	3244.	444.	373.	3327.	4284.	16.	0.	0.	.78	61.	27.5	D	21.3	3.5
22	2	2270.	0.	0.	2880.	0.	0.	2953.	4400.	0.	0.	0.	.67	62.	23.8	C	20.6	4.4
23	2	3040.	140.	268.	3020.	140.	274.	3093.	4100.	0.	0.	0.	.75	62.	25.1	C	20.7	4.2
24	2	2190.	0.	0.	2752.	0.	0.	2819.	4200.	0.	0.	0.	.67	65.	21.7	C	19.2	6.1
25	3	2400.	204.	2956.	2956.	204.	3023.	3023.	6150.	0.	0.	0.	.49	65.	15.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.98	LOWEST LOS = F		AVG = 57.	27.5		19.3	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	154. VEH-HRS	179. PASS-HRS	1055. VEH-HRS	1224. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	179. PASS-HRS	1055. VEH-HRS	1224. PASS-HRS
TOTAL TRAV DISTANCE =	8846. VEH-MI.	10262. PASS-MI.	63299. VEH-MI.	73426. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		60. MPH.	
AVERAGE DENSITY =	27. VPMPL		21. VPMPL	
TOTAL FUEL =	459. GALLONS		3311. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		254. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	984.	0.	984.	984.	0.	984.	3850.	0.	0.	0.	.26	50.	9.8	A	17.4	2.3
2	2	2070.	644.	0.	1628.	644.	0.	1628.	3850.	0.	0.	0.	.42	50.	16.3	B	15.9	2.3
3	3	2300.	1620.	384.	3248.	1620.	384.	3248.	5508.	192.	0.	0.	.59	55.	19.7	C	14.0	2.4
4	3	1020.	0.	0.	2864.	0.	0.	2864.	5700.	0.	0.	0.	.50	62.	15.4	B	19.9	4.8
5	3	710.	240.	0.	3104.	240.	0.	3104.	5700.	0.	0.	0.	.54	62.	16.7	B	16.1	4.4
6	3	3820.	424.	992.	3528.	424.	992.	3528.	6150.	0.	0.	0.	.57	62.	19.0	C	17.1	4.8
7	2	1220.	0.	0.	2536.	0.	0.	2536.	4400.	0.	0.	0.	.58	62.	20.5	C	18.2	4.4
8	2	4810.	588.	680.	3124.	588.	680.	3124.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
9	2	1370.	0.	0.	2444.	0.	0.	2444.	4000.	0.	0.	0.	.61	62.	19.7	C	23.6	4.4
10	2	660.	236.	0.	2680.	236.	0.	2680.	4376.	24.	0.	0.	.61	62.	21.6	C	23.6	4.4
11	3	790.	560.	724.	3240.	560.	724.	3240.	5636.	464.	0.	0.	.57	62.	17.4	B	30.0	4.4
12	2	1460.	0.	0.	2516.	0.	0.	2516.	4100.	0.	0.	0.	.61	62.	20.3	C	20.6	4.4
13	2	1400.	440.	0.	2956.	440.	0.	2956.	3970.	0.	0.	0.	.74	62.	23.8	C	13.6	4.4
14	2	2600.	0.	628.	2956.	0.	628.	2956.	3970.	0.	0.	0.	.74	62.	23.8	C	20.6	4.4
15	2	2010.	0.	0.	2328.	0.	0.	2328.	3900.	0.	0.	0.	.60	62.	18.8	C	14.7	4.4
16	2	6120.	420.	444.	2748.	420.	444.	2748.	3850.	0.	0.	0.	.71	62.	22.2	C	18.2	4.4
17	2	1240.	0.	0.	2304.	0.	0.	2304.	4300.	0.	0.	0.	.54	62.	18.6	C	18.2	4.4
18	2	930.	284.	0.	2588.	284.	0.	2588.	4100.	0.	0.	0.	.63	62.	20.9	C	20.6	4.4
19	2	5330.	112.	420.	2700.	112.	420.	2700.	3950.	0.	0.	0.	.68	62.	21.8	C	20.6	4.4
20	2	2830.	0.	0.	2280.	0.	0.	2280.	3800.	0.	0.	0.	.60	61.	18.7	C	21.1	3.8
21	2	1660.	492.	452.	2772.	492.	452.	2772.	4226.	74.	0.	0.	.66	61.	22.7	C	21.1	3.8
22	2	2270.	0.	0.	2320.	0.	0.	2320.	4400.	0.	0.	0.	.53	62.	18.7	C	20.6	4.4
23	2	3040.	200.	284.	2520.	200.	284.	2520.	4100.	0.	0.	0.	.61	62.	20.3	C	20.6	4.4
24	2	2190.	0.	0.	2236.	0.	0.	2236.	4200.	0.	0.	0.	.53	65.	17.2	B	19.2	6.1
25	3	2400.	152.	2388.	2388.	152.	2388.	2388.	6150.	0.	0.	0.	.39	65.	12.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.76 LOWEST LOS = C AVG = 61. 20.2 18.8 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	114. VEH-HRS	132. PASS-HRS	1168. VEH-HRS	1355. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	114. VEH-HRS	132. PASS-HRS	1168. VEH-HRS	1355. PASS-HRS
TOTAL TRAV DISTANCE =	6960. VEH-MI.	8073. PASS-MI.	70258. VEH-MI.	81500. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		21. VPMPL	
TOTAL FUEL =	371. GALLONS		3682. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		285. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1560.	0.	1560.	1560.	0.	1560.	3850.	0.	0.	0.	.41	50.	15.6	B	17.4	2.3
2	2	2070.	596.	0.	2156.	596.	0.	2156.	3848.	2.	0.	0.	.56	50.	21.6	C	15.9	2.3
3	3	2300.	1720.	328.	3876.	1720.	328.	3876.	5513.	187.	0.	0.	.70	55.	23.5	C	14.0	2.4
4	3	1020.	0.	0.	3548.	0.	0.	3548.	5700.	0.	0.	0.	.62	62.	19.1	C	19.9	4.8
5	3	710.	276.	0.	3824.	276.	0.	3824.	5700.	0.	0.	0.	.67	62.	20.6	C	16.1	4.4
6	3	3820.	352.	956.	4176.	352.	956.	4176.	6150.	0.	0.	0.	.68	62.	22.5	C	17.1	4.8
7	2	1220.	0.	0.	3220.	0.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	18.2	4.3
8	2	4810.	652.	764.	3872.	652.	764.	3872.	4100.	0.	0.	0.	.94	55.	34.9	D	23.0	2.1
9	2	1370.	0.	0.	3108.	0.	0.	3108.	4000.	0.	0.	0.	.78	61.	25.3	C	23.9	4.0
10	2	660.	228.	0.	3336.	228.	0.	3336.	4380.	20.	0.	0.	.76	62.	27.1	D	23.8	4.1
11	3	790.	508.	728.	3844.	508.	728.	3844.	5664.	436.	0.	0.	.68	62.	20.7	C	30.0	4.4
12	2	1460.	0.	0.	3116.	0.	0.	3116.	4100.	0.	0.	0.	.76	62.	25.3	C	20.8	4.1
13	2	1400.	408.	0.	3524.	408.	0.	3524.	3970.	0.	0.	0.	.89	58.	30.2	D	14.4	2.8
14	2	2600.	0.	728.	3524.	0.	728.	3524.	3970.	0.	0.	0.	.89	58.	30.2	D	22.1	2.8
15	2	2010.	0.	0.	2796.	0.	0.	2796.	3900.	0.	0.	0.	.72	62.	22.5	C	14.7	4.4
16	2	6120.	284.	524.	3080.	284.	524.	3080.	3850.	0.	0.	0.	.80	61.	25.2	C	18.6	3.8
17	2	1240.	0.	0.	2556.	0.	0.	2556.	4300.	0.	0.	0.	.59	62.	20.6	C	18.2	4.4
18	2	930.	216.	0.	2772.	216.	0.	2772.	4100.	0.	0.	0.	.68	62.	22.4	C	20.6	4.4
19	2	5330.	104.	420.	2876.	104.	420.	2876.	3950.	0.	0.	0.	.73	62.	23.2	C	20.6	4.4
20	2	2830.	0.	0.	2456.	0.	0.	2456.	3800.	0.	0.	0.	.65	61.	20.1	C	21.1	3.8
21	2	1660.	424.	396.	2880.	424.	396.	2880.	4300.	0.	0.	0.	.67	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	2484.	0.	0.	2484.	4400.	0.	0.	0.	.56	62.	20.0	C	20.6	4.4
23	2	3040.	196.	256.	2680.	196.	256.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	20.6	4.4
24	2	2190.	0.	0.	2424.	0.	0.	2424.	4200.	0.	0.	0.	.58	65.	18.6	C	19.2	6.1
25	3	2400.	156.	2580.	2580.	156.	2580.	2580.	6150.	0.	0.	0.	.42	65.	13.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.94		LOWEST LOS = D	AVG = 60.	23.8		19.1	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	1302. VEH-HRS	1511. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	1302. VEH-HRS	1511. PASS-HRS
TOTAL TRAV DISTANCE =	8035. VEH-MI.	9321. PASS-MI.	78293. VEH-MI.	90820. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		21. VPMPL	
TOTAL FUEL =	421. GALLONS		4103. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		316. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1212.	0.	1212.	1212.	0.	1212.	3850.	0.	0.	0.	.31	50.	12.1	B	17.4	2.3
2	2	2070.	680.	0.	1892.	680.	0.	1892.	3850.	0.	0.	0.	.49	50.	18.9	C	15.9	2.3
3	3	2300.	1744.	340.	3636.	1744.	340.	3636.	5524.	176.	0.	0.	.66	55.	22.0	C	14.0	2.4
4	3	1020.	0.	0.	3296.	0.	0.	3296.	5700.	0.	0.	0.	.58	62.	17.7	B	19.9	4.8
5	3	710.	212.	0.	3508.	212.	0.	3508.	5700.	0.	0.	0.	.62	62.	18.9	C	16.1	4.4
6	3	3820.	340.	932.	3848.	340.	932.	3848.	6150.	0.	0.	0.	.63	62.	20.7	C	17.1	4.8
7	2	1220.	0.	0.	2916.	0.	0.	2916.	4400.	0.	0.	0.	.66	62.	23.5	C	18.2	4.4
8	2	4810.	584.	692.	3500.	584.	692.	3500.	4100.	0.	0.	0.	.85	60.	29.3	D	21.7	3.1
9	2	1370.	0.	0.	2808.	0.	0.	2808.	4000.	0.	0.	0.	.70	62.	22.6	C	23.6	4.4
10	2	660.	232.	0.	3040.	232.	0.	3040.	4376.	24.	0.	0.	.69	62.	24.5	C	23.6	4.4
11	3	790.	648.	816.	3688.	648.	816.	3688.	5568.	532.	0.	0.	.66	62.	19.8	C	30.0	4.4
12	2	1460.	0.	0.	2872.	0.	0.	2872.	4100.	0.	0.	0.	.70	62.	23.2	C	20.6	4.4
13	2	1400.	360.	0.	3232.	360.	0.	3232.	3909.	61.	0.	0.	.83	60.	26.8	D	14.0	3.4
14	2	2600.	0.	1048.	3232.	0.	1048.	3232.	3909.	61.	0.	0.	.83	60.	26.8	D	21.4	3.4
15	2	2010.	0.	0.	2184.	0.	0.	2184.	3900.	0.	0.	0.	.56	62.	17.6	B	14.7	4.4
16	2	6120.	332.	612.	2516.	332.	612.	2516.	3850.	0.	0.	0.	.65	62.	20.3	C	18.2	4.4
17	2	1240.	0.	0.	1904.	0.	0.	1904.	4300.	0.	0.	0.	.44	62.	15.4	B	18.2	4.4
18	2	930.	224.	0.	2128.	224.	0.	2128.	4100.	0.	0.	0.	.52	62.	17.2	B	20.6	4.4
19	2	5330.	108.	348.	2236.	108.	348.	2236.	3950.	0.	0.	0.	.57	62.	18.0	C	20.6	4.4
20	2	2830.	0.	0.	1888.	0.	0.	1888.	3800.	0.	0.	0.	.50	61.	15.5	B	21.1	3.8
21	2	1660.	372.	368.	2260.	372.	368.	2260.	4300.	0.	0.	0.	.53	61.	18.5	C	21.1	3.8
22	2	2270.	0.	0.	1892.	0.	0.	1892.	4400.	0.	0.	0.	.43	62.	15.3	B	20.6	4.4
23	2	3040.	144.	240.	2036.	144.	240.	2036.	4100.	0.	0.	0.	.50	62.	16.4	B	20.6	4.4
24	2	2190.	0.	0.	1796.	0.	0.	1796.	4200.	0.	0.	0.	.43	65.	13.8	B	19.2	6.1
25	3	2400.	100.	1896.	1896.	100.	1896.	1896.	6150.	0.	0.	0.	.31	65.	9.7	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.85		LOWEST LOS = D	AVG = 61.	19.8		18.8	4.1

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 12 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	112. VEH-HRS	130. PASS-HRS	1414. VEH-HRS	1641. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	112. VEH-HRS	130. PASS-HRS	1414. VEH-HRS	1641. PASS-HRS
TOTAL TRAV DISTANCE =	6810. VEH-MI.	7900. PASS-MI.	85103. VEH-MI.	98720. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		21. VPMPL	
TOTAL FUEL =	362. GALLONS		4465. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		344. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1848.	0.	1848.	1848.	0.	1848.	3850.	0.	0.	0.	.48	50.	18.5	C	17.4	2.3
2	2	2070.	612.	0.	2460.	612.	0.	2460.	3844.	6.	0.	0.	.64	50.	24.6	C	15.9	2.3
3	3	2300.	1352.	204.	3812.	1352.	204.	3812.	5567.	133.	0.	0.	.68	55.	23.1	C	14.0	2.4
4	3	1020.	0.	0.	3608.	0.	0.	3608.	5700.	0.	0.	0.	.63	62.	19.4	C	19.9	4.8
5	3	710.	216.	0.	3824.	216.	0.	3824.	5700.	0.	0.	0.	.67	62.	20.6	C	16.1	4.4
6	3	3820.	400.	792.	4224.	400.	792.	4224.	6150.	0.	0.	0.	.69	62.	22.7	C	17.1	4.8
7	2	1220.	0.	0.	3432.	0.	0.	3432.	4400.	0.	0.	0.	.78	61.	28.0	D	18.4	4.0
8	2	4810.	592.	652.	4024.	592.	652.	4024.	4100.	0.	0.	0.	.98	53.	38.0	E	23.6	2.0
9	2	1370.	0.	0.	3372.	0.	0.	3372.	4000.	0.	0.	0.	.84	60.	28.1	D	24.8	3.2
10	2	660.	156.	0.	3528.	156.	0.	3528.	4389.	11.	0.	0.	.80	61.	29.0	D	24.2	3.7
11	3	790.	612.	668.	4140.	612.	668.	4140.	5575.	525.	0.	0.	.74	62.	22.3	C	30.0	4.4
12	2	1460.	0.	0.	3472.	0.	0.	3451.	4100.	0. *	279.	21.	.84	52.	33.5	F	21.4	3.2
13	2	1400.	380.	0.	3852.	380.	0.	3831.	3831.	139.	0.	0.	1.00	52.	37.2	E	15.7	2.0
14	2	2600.	0.	1308.	3852.	0.	1301.	3831.	3831.	139.	0.	0.	1.00	52.	37.2	E	23.9	2.0
15	2	2010.	0.	0.	2544.	0.	0.	2530.	3900.	0.	0.	0.	.65	62.	20.4	C	14.7	4.4
16	2	6120.	260.	600.	2804.	260.	597.	2790.	3850.	0.	0.	0.	.72	62.	22.5	C	18.2	4.4
17	2	1240.	0.	0.	2204.	0.	0.	2193.	4300.	0.	0.	0.	.51	62.	17.7	B	18.2	4.4
18	2	930.	264.	0.	2468.	264.	0.	2457.	4100.	0.	0.	0.	.60	62.	19.8	C	20.6	4.4
19	2	5330.	96.	352.	2564.	96.	351.	2553.	3950.	0.	0.	0.	.65	62.	20.6	C	20.6	4.4
20	2	2830.	0.	0.	2212.	0.	0.	2203.	3800.	0.	0.	0.	.58	61.	18.1	C	21.1	3.8
21	2	1660.	328.	280.	2540.	328.	279.	2531.	4300.	0.	0.	0.	.59	61.	20.7	C	21.1	3.8
22	2	2270.	0.	0.	2260.	0.	0.	2252.	4400.	0.	0.	0.	.51	62.	18.2	C	20.6	4.4
23	2	3040.	100.	224.	2360.	100.	223.	2352.	4100.	0.	0.	0.	.57	62.	19.0	C	20.6	4.4
24	2	2190.	0.	0.	2136.	0.	0.	2129.	4200.	0.	0.	0.	.51	65.	16.4	B	19.2	6.1
25	3	2400.	116.	2252.	2252.	116.	2245.	2245.	6150.	0.	0.	0.	.36	65.	11.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	23.8		19.3	3.7

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 13 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	1548. VEH-HRS	1796. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	1548. VEH-HRS	1796. PASS-HRS
TOTAL TRAV DISTANCE =	7812. VEH-MI.	9062. PASS-MI.	92915. VEH-MI.	107782. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		21. VPMPL	
TOTAL FUEL =	405. GALLONS		4870. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		373. KILOGRAMS	

QUEUE CLEAR SECTION 12 FT= 53

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1664.	0.	1664.	1664.	0.	1664.	3850.	0.	0.	0.	.43	50.	16.6	B	17.4	2.3
2	2	2070.	588.	0.	2252.	588.	0.	2252.	3845.	5.	0.	0.	.59	50.	22.5	C	15.9	2.3
3	3	2300.	1412.	336.	3664.	1412.	336.	3664.	5486.	214.	0.	0.	.67	55.	22.2	C	14.0	2.4
4	3	1020.	0.	0.	3328.	0.	0.	3328.	5700.	0.	0.	0.	.58	62.	17.9	B	19.9	4.8
5	3	710.	172.	0.	3500.	172.	0.	3500.	5700.	0.	0.	0.	.61	62.	18.8	C	16.1	4.4
6	3	3820.	284.	700.	3784.	284.	700.	3784.	6150.	0.	0.	0.	.62	62.	20.3	C	17.1	4.8
7	2	1220.	0.	0.	3084.	0.	0.	3084.	4400.	0.	0.	0.	.70	62.	24.9	C	18.2	4.3
8	2	4810.	516.	664.	3600.	516.	664.	3600.	4100.	0.	0.	0.	.88	59.	30.6	D	22.0	2.9
9	2	1370.	0.	0.	2936.	0.	0.	2936.	4000.	0.	0.	0.	.73	62.	23.7	C	23.6	4.4
10	2	660.	252.	0.	3188.	252.	0.	3188.	4384.	16.	0.	0.	.73	62.	25.8	C	23.7	4.3
11	3	790.	496.	532.	3684.	496.	532.	3684.	5656.	444.	0.	0.	.65	62.	19.8	C	30.0	4.4
12	2	1460.	0.	0.	3152.	0.	0.	3174.	4100.	0.	0.	-22.	.77	48.	33.1	D	20.4	4.1
13	2	1400.	272.	0.	3424.	272.	0.	3446.	3907.	63.	0.	0.	.88	59.	29.4	D	14.4	2.9
14	2	2600.	0.	1176.	3424.	0.	1183.	3446.	3907.	63.	0.	0.	.88	59.	29.4	D	22.0	2.9
15	2	2010.	0.	0.	2248.	0.	0.	2262.	3900.	0.	0.	0.	.58	62.	18.2	C	14.7	4.4
16	2	6120.	264.	572.	2512.	264.	575.	2526.	3850.	0.	0.	0.	.66	62.	20.4	C	18.2	4.4
17	2	1240.	0.	0.	1940.	0.	0.	1951.	4300.	0.	0.	0.	.45	62.	15.7	B	18.2	4.4
18	2	930.	284.	0.	2224.	284.	0.	2235.	4100.	0.	0.	0.	.55	62.	18.0	C	20.6	4.4
19	2	5330.	108.	324.	2332.	108.	326.	2343.	3950.	0.	0.	0.	.59	62.	18.9	C	20.6	4.4
20	2	2830.	0.	0.	2008.	0.	0.	2017.	3800.	0.	0.	0.	.53	61.	16.5	B	21.1	3.8
21	2	1660.	308.	372.	2316.	308.	374.	2325.	4300.	0.	0.	0.	.54	61.	19.1	C	21.1	3.8
22	2	2270.	0.	0.	1944.	0.	0.	1952.	4400.	0.	0.	0.	.44	62.	15.7	B	20.6	4.4
23	2	3040.	120.	192.	2064.	120.	193.	2072.	4100.	0.	0.	0.	.51	62.	16.7	B	20.6	4.4
24	2	2190.	0.	0.	1872.	0.	0.	1879.	4200.	0.	0.	0.	.45	65.	14.5	B	19.2	6.1
25	3	2400.	60.	1932.	1932.	60.	1939.	1939.	6150.	0.	0.	0.	.32	65.	9.9	A	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.88 LOWEST LOS = D AVG = 60. 20.9 18.9 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	118. VEH-HRS	136. PASS-HRS	1666. VEH-HRS	1932. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	118. VEH-HRS	136. PASS-HRS	1666. VEH-HRS	1932. PASS-HRS
TOTAL TRAV DISTANCE =	7046. VEH-MI.	8174. PASS-MI.	99962. VEH-MI.	115956. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		21. VPMPL	
TOTAL FUEL =	373. GALLONS		5243. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		401. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1400.	0.	1400.	1400.	0.	1400.	3850.	0.	0.	0.	.36	50.	14.0	B	17.4	2.3
2	2	2070.	576.	0.	1976.	576.	0.	1976.	3850.	0.	0.	0.	.51	50.	19.8	C	15.9	2.3
3	3	2300.	1428.	264.	3404.	1428.	264.	3404.	5556.	144.	0.	0.	.61	55.	20.6	C	14.0	2.4
4	3	1020.	0.	0.	3140.	0.	0.	3140.	5700.	0.	0.	0.	.55	62.	16.9	B	19.9	4.8
5	3	710.	176.	0.	3316.	176.	0.	3316.	5700.	0.	0.	0.	.58	62.	17.8	B	16.1	4.4
6	3	3820.	292.	760.	3608.	292.	760.	3608.	6150.	0.	0.	0.	.59	62.	19.4	C	17.1	4.8
7	2	1220.	0.	0.	2848.	0.	0.	2848.	4400.	0.	0.	0.	.65	62.	23.0	C	18.2	4.4
8	2	4810.	408.	740.	3256.	408.	740.	3256.	4100.	0.	0.	0.	.79	61.	26.6	D	21.0	3.8
9	2	1370.	0.	0.	2516.	0.	0.	2516.	4000.	0.	0.	0.	.63	62.	20.3	C	23.6	4.4
10	2	660.	220.	0.	2736.	220.	0.	2736.	4382.	18.	0.	0.	.62	62.	22.1	C	23.6	4.4
11	3	790.	468.	600.	3204.	468.	600.	3204.	5698.	402.	0.	0.	.56	62.	17.2	B	30.0	4.4
12	2	1460.	0.	0.	2604.	0.	0.	2604.	4100.	0.	0.	0.	.64	62.	21.0	C	20.6	4.4
13	2	1400.	296.	0.	2900.	296.	0.	2900.	3970.	0.	0.	0.	.73	62.	23.4	C	13.6	4.4
14	2	2600.	0.	576.	2900.	0.	576.	2900.	3970.	0.	0.	0.	.73	62.	23.4	C	20.6	4.4
15	2	2010.	0.	0.	2324.	0.	0.	2324.	3900.	0.	0.	0.	.60	62.	18.7	C	14.7	4.4
16	2	6120.	308.	480.	2632.	308.	480.	2632.	3850.	0.	0.	0.	.68	62.	21.2	C	18.2	4.4
17	2	1240.	0.	0.	2152.	0.	0.	2152.	4300.	0.	0.	0.	.50	62.	17.4	B	18.2	4.4
18	2	930.	316.	0.	2468.	316.	0.	2468.	4100.	0.	0.	0.	.60	62.	19.9	C	20.6	4.4
19	2	5330.	108.	420.	2576.	108.	420.	2576.	3950.	0.	0.	0.	.65	62.	20.8	C	20.6	4.4
20	2	2830.	0.	0.	2156.	0.	0.	2156.	3800.	0.	0.	0.	.57	61.	17.7	B	21.1	3.8
21	2	1660.	244.	324.	2400.	244.	324.	2400.	4300.	0.	0.	0.	.56	61.	19.7	C	21.1	3.8
22	2	2270.	0.	0.	2076.	0.	0.	2076.	4400.	0.	0.	0.	.47	62.	16.7	B	20.6	4.4
23	2	3040.	72.	172.	2148.	72.	172.	2148.	4100.	0.	0.	0.	.52	62.	17.3	B	20.6	4.4
24	2	2190.	0.	0.	1976.	0.	0.	1976.	4200.	0.	0.	0.	.47	65.	15.2	B	19.2	6.1
25	3	2400.	96.	2072.	2072.	96.	2072.	2072.	6150.	0.	0.	0.	.34	65.	10.6	A	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.79 LOWEST LOS = D AVG = 61. 19.8 18.7 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	112. VEH-HRS	130. PASS-HRS	1777. VEH-HRS	2062. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	112. VEH-HRS	130. PASS-HRS	1777. VEH-HRS	2062. PASS-HRS
TOTAL TRAV DISTANCE =	6836. VEH-MI.	7930. PASS-MI.	106798. VEH-MI.	123886. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		21. VPMPL	
TOTAL FUEL =	365. GALLONS		5608. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		430. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1440.	0.	1440.	1440.	0.	1440.	3850.	0.	0.	0.	.37	50.	14.4	B	17.4	2.3
2	2	2070.	536.	0.	1976.	536.	0.	1976.	3850.	0.	0.	0.	.51	50.	19.8	C	15.9	2.3
3	3	2300.	1524.	304.	3500.	1524.	304.	3500.	5528.	172.	0.	0.	.63	55.	21.2	C	14.0	2.4
4	3	1020.	0.	0.	3196.	0.	0.	3196.	5700.	0.	0.	0.	.56	62.	17.2	B	19.9	4.8
5	3	710.	156.	0.	3352.	156.	0.	3352.	5700.	0.	0.	0.	.59	62.	18.0	C	16.1	4.4
6	3	3820.	400.	860.	3752.	400.	860.	3752.	6150.	0.	0.	0.	.61	62.	20.2	C	17.1	4.8
7	2	1220.	0.	0.	2892.	0.	0.	2892.	4400.	0.	0.	0.	.66	62.	23.3	C	18.2	4.4
8	2	4810.	524.	688.	3416.	524.	688.	3416.	4100.	0.	0.	0.	.83	60.	28.4	D	21.5	3.3
9	2	1370.	0.	0.	2728.	0.	0.	2728.	4000.	0.	0.	0.	.68	62.	22.0	C	23.6	4.4
10	2	660.	172.	0.	2900.	172.	0.	2900.	4384.	16.	0.	0.	.66	62.	23.4	C	23.6	4.4
11	3	790.	484.	720.	3384.	484.	720.	3384.	5700.	400.	0.	0.	.59	62.	18.2	C	30.0	4.4
12	2	1460.	0.	0.	2664.	0.	0.	2664.	4100.	0.	0.	0.	.65	62.	21.5	C	20.6	4.4
13	2	1400.	380.	0.	3044.	380.	0.	3044.	3970.	0.	0.	0.	.77	62.	24.5	C	13.6	4.4
14	2	2600.	0.	512.	3044.	0.	512.	3044.	3970.	0.	0.	0.	.77	62.	24.5	C	20.6	4.4
15	2	2010.	0.	0.	2532.	0.	0.	2532.	3900.	0.	0.	0.	.65	62.	20.4	C	14.7	4.4
16	2	6120.	284.	512.	2816.	284.	512.	2816.	3850.	0.	0.	0.	.73	62.	22.7	C	18.2	4.4
17	2	1240.	0.	0.	2304.	0.	0.	2304.	4300.	0.	0.	0.	.54	62.	18.6	C	18.2	4.4
18	2	930.	232.	0.	2536.	232.	0.	2536.	4100.	0.	0.	0.	.62	62.	20.5	C	20.6	4.4
19	2	5330.	132.	452.	2668.	132.	452.	2668.	3950.	0.	0.	0.	.68	62.	21.5	C	20.6	4.4
20	2	2830.	0.	0.	2216.	0.	0.	2216.	3800.	0.	0.	0.	.58	61.	18.2	C	21.1	3.8
21	2	1660.	296.	408.	2512.	296.	408.	2512.	4300.	0.	0.	0.	.58	61.	20.6	C	21.1	3.8
22	2	2270.	0.	0.	2104.	0.	0.	2104.	4400.	0.	0.	0.	.48	62.	17.0	B	20.6	4.4
23	2	3040.	96.	224.	2200.	96.	224.	2200.	4100.	0.	0.	0.	.54	62.	17.7	B	20.6	4.4
24	2	2190.	0.	0.	1976.	0.	0.	1976.	4200.	0.	0.	0.	.47	65.	15.2	B	19.2	6.1
25	3	2400.	72.	2048.	2048.	72.	2048.	2048.	6150.	0.	0.	0.	.33	65.	10.5	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.83		LOWEST LOS = D	AVG = 61.	20.7		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	116. VEH-HRS	135. PASS-HRS	1894. VEH-HRS	2197. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	116. VEH-HRS	135. PASS-HRS	1894. VEH-HRS	2197. PASS-HRS
TOTAL TRAV DISTANCE =	7106. VEH-MI.	8244. PASS-MI.	113905. VEH-MI.	132129. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		21. VPMPL	
TOTAL FUEL =	379. GALLONS		5987. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		460. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1712.	0.	1712.	1712.	0.	1712.	3850.	0.	0.	0.	.44	50.	17.1	B	17.4	2.3
2	2	2070.	584.	0.	2296.	584.	0.	2296.	3845.	5.	0.	0.	.60	50.	23.0	C	15.9	2.3
3	3	2300.	1256.	244.	3552.	1256.	244.	3552.	5553.	147.	0.	0.	.64	55.	21.5	C	14.0	2.4
4	3	1020.	0.	0.	3308.	0.	0.	3308.	5700.	0.	0.	0.	.58	62.	17.8	B	19.9	4.8
5	3	710.	168.	0.	3476.	168.	0.	3476.	5700.	0.	0.	0.	.61	62.	18.7	C	16.1	4.4
6	3	3820.	324.	832.	3800.	324.	832.	3800.	6150.	0.	0.	0.	.62	62.	20.4	C	17.1	4.8
7	2	1220.	0.	0.	2968.	0.	0.	2968.	4400.	0.	0.	0.	.67	62.	23.9	C	18.2	4.4
8	2	4810.	480.	844.	3448.	480.	844.	3448.	4100.	0.	0.	0.	.84	60.	28.7	D	21.6	3.2
9	2	1370.	0.	0.	2604.	0.	0.	2604.	4000.	0.	0.	0.	.65	62.	21.0	C	23.6	4.4
10	2	660.	136.	0.	2740.	136.	0.	2740.	4387.	13.	0.	0.	.62	62.	22.1	C	23.6	4.4
11	3	790.	576.	648.	3316.	576.	648.	3316.	5621.	479.	0.	0.	.59	62.	17.8	B	30.0	4.4
12	2	1460.	0.	0.	2668.	0.	0.	2668.	4100.	0.	0.	0.	.65	62.	21.5	C	20.6	4.4
13	2	1400.	364.	0.	3032.	364.	0.	3032.	3970.	0.	0.	0.	.76	62.	24.5	C	13.6	4.4
14	2	2600.	0.	500.	3032.	0.	500.	3032.	3970.	0.	0.	0.	.76	62.	24.5	C	20.6	4.4
15	2	2010.	0.	0.	2532.	0.	0.	2532.	3900.	0.	0.	0.	.65	62.	20.4	C	14.7	4.4
16	2	6120.	244.	628.	2776.	244.	628.	2776.	3850.	0.	0.	0.	.72	62.	22.4	C	18.2	4.4
17	2	1240.	0.	0.	2148.	0.	0.	2148.	4300.	0.	0.	0.	.50	62.	17.3	B	18.2	4.4
18	2	930.	252.	0.	2400.	252.	0.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
19	2	5330.	120.	432.	2520.	120.	432.	2520.	3950.	0.	0.	0.	.64	62.	20.3	C	20.6	4.4
20	2	2830.	0.	0.	2088.	0.	0.	2088.	3800.	0.	0.	0.	.55	61.	17.1	B	21.1	3.8
21	2	1660.	224.	364.	2312.	224.	364.	2312.	4300.	0.	0.	0.	.54	61.	19.0	C	21.1	3.8
22	2	2270.	0.	0.	1948.	0.	0.	1948.	4400.	0.	0.	0.	.44	62.	15.7	B	20.6	4.4
23	2	3040.	88.	232.	2036.	88.	232.	2036.	4100.	0.	0.	0.	.50	62.	16.4	B	20.6	4.4
24	2	2190.	0.	0.	1804.	0.	0.	1804.	4200.	0.	0.	0.	.43	65.	13.9	B	19.2	6.1
25	3	2400.	64.	1868.	1868.	64.	1868.	1868.	6150.	0.	0.	0.	.30	65.	9.6	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.84		LOWEST LOS = D	AVG = 61.	20.3		18.7	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	133. PASS-HRS	2009. VEH-HRS	2330. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	115. VEH-HRS	133. PASS-HRS	2009. VEH-HRS	2330. PASS-HRS
TOTAL TRAV DISTANCE =	6987. VEH-MI.	8105. PASS-MI.	120891. VEH-MI.	140234. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		21. VPMPL	
TOTAL FUEL =	373. GALLONS		6361. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		489. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1732.	0.	1732.	1732.	0.	1732.	3850.	0.	0.	0.	.45	50.	17.3	B	17.4	2.3
2	2	2070.	604.	0.	2336.	604.	0.	2336.	3844.	6.	0.	0.	.61	50.	23.4	C	15.9	2.3
3	3	2300.	1332.	244.	3668.	1332.	244.	3668.	5545.	155.	0.	0.	.66	55.	22.2	C	14.0	2.4
4	3	1020.	0.	0.	3424.	0.	0.	3424.	5700.	0.	0.	0.	.60	62.	18.4	C	19.9	4.8
5	3	710.	208.	0.	3632.	208.	0.	3632.	5700.	0.	0.	0.	.64	62.	19.5	C	16.1	4.4
6	3	3820.	396.	856.	4028.	396.	856.	4028.	6150.	0.	0.	0.	.65	62.	21.7	C	17.1	4.8
7	2	1220.	0.	0.	3172.	0.	0.	3172.	4400.	0.	0.	0.	.72	62.	25.6	C	18.2	4.3
8	2	4810.	460.	788.	3632.	460.	788.	3632.	4100.	0.	0.	0.	.89	58.	31.1	D	22.1	2.8
9	2	1370.	0.	0.	2844.	0.	0.	2844.	4000.	0.	0.	0.	.71	62.	22.9	C	23.6	4.4
10	2	660.	192.	0.	3036.	192.	0.	3036.	4385.	15.	0.	0.	.69	62.	24.5	C	23.6	4.4
11	3	790.	592.	640.	3628.	592.	640.	3628.	5595.	505.	0.	0.	.65	62.	19.5	C	30.0	4.4
12	2	1460.	0.	0.	2988.	0.	0.	2988.	4100.	0.	0.	0.	.73	62.	24.1	C	20.6	4.4
13	2	1400.	384.	0.	3372.	384.	0.	3372.	3970.	0.	0.	0.	.85	60.	28.2	D	14.1	3.1
14	2	2600.	0.	624.	3372.	0.	624.	3372.	3970.	0.	0.	0.	.85	60.	28.2	D	21.7	3.1
15	2	2010.	0.	0.	2748.	0.	0.	2748.	3900.	0.	0.	0.	.70	62.	22.2	C	14.7	4.4
16	2	6120.	276.	556.	3024.	276.	556.	3024.	3850.	0.	0.	0.	.79	62.	24.4	C	18.2	4.4
17	2	1240.	0.	0.	2468.	0.	0.	2468.	4300.	0.	0.	0.	.57	62.	19.9	C	18.2	4.4
18	2	930.	296.	0.	2764.	296.	0.	2764.	4100.	0.	0.	0.	.67	62.	22.3	C	20.6	4.4
19	2	5330.	108.	404.	2872.	108.	404.	2872.	3950.	0.	0.	0.	.73	62.	23.2	C	20.6	4.4
20	2	2830.	0.	0.	2468.	0.	0.	2468.	3800.	0.	0.	0.	.65	61.	20.2	C	21.1	3.8
21	2	1660.	300.	356.	2768.	300.	356.	2768.	4300.	0.	0.	0.	.64	61.	22.7	C	21.1	3.8
22	2	2270.	0.	0.	2412.	0.	0.	2412.	4400.	0.	0.	0.	.55	62.	19.5	C	20.6	4.4
23	2	3040.	72.	260.	2484.	72.	260.	2484.	4100.	0.	0.	0.	.61	62.	20.0	C	20.6	4.4
24	2	2190.	0.	0.	2224.	0.	0.	2224.	4200.	0.	0.	0.	.53	65.	17.1	B	19.2	6.1
25	3	2400.	88.	2312.	2312.	88.	2312.	2312.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.89 LOWEST LOS = D AVG = 61. 22.7 18.9 4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	148. PASS-HRS	2136. VEH-HRS	2478. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	128. VEH-HRS	148. PASS-HRS	2136. VEH-HRS	2478. PASS-HRS
TOTAL TRAV DISTANCE =	7744. VEH-MI.	8983. PASS-MI.	128635. VEH-MI.	149217. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		21. VPMPL	
TOTAL FUEL =	410. GALLONS		6771. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		520. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1692.	0.	1692.	1692.	0.	1692.	3850.	0.	0.	0.	.44	50.	16.9	B	17.4	2.3
2	2	2070.	584.	0.	2276.	584.	0.	2276.	3845.	5.	0.	0.	.59	50.	22.8	C	15.9	2.3
3	3	2300.	1304.	244.	3580.	1304.	244.	3580.	5553.	147.	0.	0.	.64	55.	21.7	C	14.0	2.4
4	3	1020.	0.	0.	3336.	0.	0.	3336.	5700.	0.	0.	0.	.59	62.	17.9	B	19.9	4.8
5	3	710.	204.	0.	3540.	204.	0.	3540.	5700.	0.	0.	0.	.62	62.	19.0	C	16.1	4.4
6	3	3820.	288.	852.	3828.	288.	852.	3828.	6150.	0.	0.	0.	.62	62.	20.6	C	17.1	4.8
7	2	1220.	0.	0.	2976.	0.	0.	2976.	4400.	0.	0.	0.	.68	62.	24.0	C	18.2	4.4
8	2	4810.	480.	748.	3456.	480.	748.	3456.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
9	2	1370.	0.	0.	2708.	0.	0.	2708.	4000.	0.	0.	0.	.68	62.	21.8	C	23.6	4.4
10	2	660.	216.	0.	2924.	216.	0.	2924.	4385.	15.	0.	0.	.67	62.	23.6	C	23.6	4.4
11	3	790.	636.	544.	3560.	636.	544.	3560.	5635.	465.	0.	0.	.63	62.	19.1	C	30.0	4.4
12	2	1460.	0.	0.	3016.	0.	0.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	20.6	4.4
13	2	1400.	364.	0.	3380.	364.	0.	3380.	3970.	0.	0.	0.	.85	60.	28.3	D	14.2	3.1
14	2	2600.	0.	720.	3380.	0.	720.	3380.	3970.	0.	0.	0.	.85	60.	28.3	D	21.7	3.1
15	2	2010.	0.	0.	2660.	0.	0.	2660.	3900.	0.	0.	0.	.68	62.	21.5	C	14.7	4.4
16	2	6120.	244.	568.	2904.	244.	568.	2904.	3850.	0.	0.	0.	.75	62.	23.4	C	18.2	4.4
17	2	1240.	0.	0.	2336.	0.	0.	2336.	4300.	0.	0.	0.	.54	62.	18.8	C	18.2	4.4
18	2	930.	288.	0.	2624.	288.	0.	2624.	4100.	0.	0.	0.	.64	62.	21.2	C	20.6	4.4
19	2	5330.	88.	484.	2712.	88.	484.	2712.	3950.	0.	0.	0.	.69	62.	21.9	C	20.6	4.4
20	2	2830.	0.	0.	2228.	0.	0.	2228.	3800.	0.	0.	0.	.59	61.	18.3	C	21.1	3.8
21	2	1660.	304.	404.	2532.	304.	404.	2532.	4300.	0.	0.	0.	.59	61.	20.8	C	21.1	3.8
22	2	2270.	0.	0.	2128.	0.	0.	2128.	4400.	0.	0.	0.	.48	62.	17.2	B	20.6	4.4
23	2	3040.	76.	232.	2204.	76.	232.	2204.	4100.	0.	0.	0.	.54	62.	17.8	B	20.6	4.4
24	2	2190.	0.	0.	1972.	0.	0.	1972.	4200.	0.	0.	0.	.47	65.	15.2	B	19.2	6.1
25	3	2400.	108.	2080.	2080.	108.	2080.	2080.	6150.	0.	0.	0.	.34	65.	10.7	A	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.85 LOWEST LOS = D AVG = 61. 21.5 18.8 4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	2257. VEH-HRS	2619. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	2257. VEH-HRS	2619. PASS-HRS
TOTAL TRAV DISTANCE =	7349. VEH-MI.	8525. PASS-MI.	135984. VEH-MI.	157742. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		21. VPMPL	
TOTAL FUEL =	390. GALLONS		7161. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		550. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2000.	0.	2000.	2000.	0.	2000.	3850.	0.	0.	0.	.52	50.	20.0	C	17.4	2.3
2	2	2070.	684.	0.	2684.	684.	0.	2684.	3835.	15.	0.	0.	.70	50.	26.8	D	15.9	2.3
3	3	2300.	1532.	384.	4216.	1532.	384.	4216.	5437.	263.	0.	0.	.78	55.	25.6	C	14.0	2.4
4	3	1020.	0.	0.	3832.	0.	0.	3832.	5700.	0.	0.	0.	.67	62.	20.6	C	19.9	4.8
5	3	710.	184.	0.	4016.	184.	0.	4016.	5700.	0.	0.	0.	.70	62.	21.6	C	16.1	4.4
6	3	3820.	388.	860.	4404.	388.	860.	4404.	6150.	0.	0.	0.	.72	62.	23.7	C	17.1	4.8
7	2	1220.	0.	0.	3544.	0.	0.	3544.	4400.	0.	0.	0.	.81	61.	29.1	D	18.6	3.7
8	2	4810.	544.	848.	4088.	544.	848.	4088.	4100.	0.	0.	0.	.99	52.	39.5	E	23.9	2.0
9	2	1370.	0.	0.	3240.	0.	0.	3240.	4000.	0.	0.	0.	.81	61.	26.6	D	24.3	3.7
10	2	660.	256.	0.	3496.	256.	0.	3496.	4380.	20.	0.	0.	.80	61.	28.6	D	24.1	3.8
11	3	790.	656.	712.	4152.	656.	712.	4152.	5532.	568.	0.	0.	.75	62.	22.3	C	30.0	4.4
12	2	1460.	0.	0.	3440.	0.	0.	3440.	4100.	0.	0.	0.	.84	60.	28.6	D	21.6	3.2
13	2	1400.	388.	0.	3828.	388.	0.	3828.	3899.	71.	0.	0.	.98	53.	36.1	E	15.5	2.0
14	2	2600.	0.	1012.	3828.	0.	1012.	3828.	3899.	71.	0.	0.	.98	53.	36.1	E	23.6	2.0
15	2	2010.	0.	0.	2816.	0.	0.	2816.	3900.	0.	0.	0.	.72	62.	22.7	C	14.7	4.4
16	2	6120.	356.	668.	3172.	356.	668.	3172.	3850.	0.	0.	0.	.82	60.	26.2	D	18.8	3.5
17	2	1240.	0.	0.	2504.	0.	0.	2504.	4300.	0.	0.	0.	.58	62.	20.2	C	18.2	4.4
18	2	930.	428.	0.	2932.	428.	0.	2932.	4100.	0.	0.	0.	.72	62.	23.6	C	20.6	4.4
19	2	5330.	76.	448.	3008.	76.	448.	3008.	3950.	0.	0.	0.	.76	62.	24.3	C	20.6	4.4
20	2	2830.	0.	0.	2560.	0.	0.	2560.	3800.	0.	0.	0.	.67	61.	21.0	C	21.1	3.8
21	2	1660.	248.	364.	2808.	248.	364.	2808.	4300.	0.	0.	0.	.65	61.	23.0	C	21.1	3.8
22	2	2270.	0.	0.	2444.	0.	0.	2444.	4400.	0.	0.	0.	.56	62.	19.7	C	20.6	4.4
23	2	3040.	104.	232.	2548.	104.	232.	2548.	4100.	0.	0.	0.	.62	62.	20.5	C	20.6	4.4
24	2	2190.	0.	0.	2316.	0.	0.	2316.	4200.	0.	0.	0.	.55	65.	17.8	B	19.2	6.1
25	3	2400.	56.	2372.	2372.	56.	2372.	2372.	6150.	0.	0.	0.	.39	65.	12.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.99		LOWEST LOS = E	AVG = 59.	25.4		19.3	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	143. VEH-HRS	166. PASS-HRS	2400. VEH-HRS	2784. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	143. VEH-HRS	166. PASS-HRS	2400. VEH-HRS	2784. PASS-HRS
TOTAL TRAV DISTANCE =	8385. VEH-MI.	9726. PASS-MI.	144369. VEH-MI.	167468. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	25. VPMPL		21. VPMPL	
TOTAL FUEL =	435. GALLONS		7596. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		581. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1872.	0.	1872.	1872.	0.	1872.	3850.	0.	0.	0.	.49	50.	18.7	C	17.4	2.3
2	2	2070.	408.	0.	2280.	408.	0.	2280.	3845.	5.	0.	0.	.59	50.	22.8	C	15.9	2.3
3	3	2300.	1420.	236.	3700.	1420.	236.	3700.	5558.	142.	0.	0.	.67	55.	22.4	C	14.0	2.4
4	3	1020.	0.	0.	3464.	0.	0.	3464.	5700.	0.	0.	0.	.61	62.	18.6	C	19.9	4.8
5	3	710.	184.	0.	3648.	184.	0.	3648.	5700.	0.	0.	0.	.64	62.	19.6	C	16.1	4.4
6	3	3820.	324.	788.	3972.	324.	788.	3972.	6150.	0.	0.	0.	.65	62.	21.4	C	17.1	4.8
7	2	1220.	0.	0.	3184.	0.	0.	3184.	4400.	0.	0.	0.	.72	62.	25.7	C	18.2	4.3
8	2	4810.	472.	676.	3656.	472.	676.	3656.	4100.	0.	0.	0.	.89	58.	31.4	D	22.2	2.8
9	2	1370.	0.	0.	2980.	0.	0.	2980.	4000.	0.	0.	0.	.75	62.	24.0	C	23.6	4.4
10	2	660.	260.	0.	3240.	260.	0.	3240.	4378.	22.	0.	0.	.74	62.	26.2	D	23.7	4.2
11	3	790.	660.	736.	3900.	660.	736.	3900.	5538.	562.	0.	0.	.70	62.	21.0	C	30.0	4.4
12	2	1460.	0.	0.	3164.	0.	0.	3164.	4100.	0.	0.	0.	.77	61.	25.7	C	20.8	4.0
13	2	1400.	416.	0.	3580.	416.	0.	3580.	3970.	0.	0.	0.	.90	58.	31.0	D	14.5	2.6
14	2	2600.	0.	720.	3580.	0.	720.	3580.	3970.	0.	0.	0.	.90	58.	31.0	D	22.3	2.6
15	2	2010.	0.	0.	2860.	0.	0.	2860.	3900.	0.	0.	0.	.73	62.	23.1	C	14.7	4.4
16	2	6120.	344.	632.	3204.	344.	632.	3204.	3850.	0.	0.	0.	.83	60.	26.6	D	18.9	3.3
17	2	1240.	0.	0.	2572.	0.	0.	2572.	4300.	0.	0.	0.	.60	62.	20.7	C	18.2	4.4
18	2	930.	444.	0.	3016.	444.	0.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	20.6	4.4
19	2	5330.	104.	484.	3120.	104.	484.	3120.	3950.	0.	0.	0.	.79	61.	25.5	C	21.0	3.9
20	2	2830.	0.	0.	2636.	0.	0.	2636.	3800.	0.	0.	0.	.69	61.	21.6	C	21.1	3.8
21	2	1660.	308.	412.	2944.	308.	412.	2944.	4300.	0.	0.	0.	.68	61.	24.1	C	21.1	3.8
22	2	2270.	0.	0.	2532.	0.	0.	2532.	4400.	0.	0.	0.	.58	62.	20.4	C	20.6	4.4
23	2	3040.	96.	312.	2628.	96.	312.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	20.6	4.4
24	2	2190.	0.	0.	2316.	0.	0.	2316.	4200.	0.	0.	0.	.55	65.	17.8	B	19.2	6.1
25	3	2400.	68.	2384.	2384.	68.	2384.	2384.	6150.	0.	0.	0.	.39	65.	12.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.90 LOWEST LOS = D AVG = 60. 23.9 19.1 3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2534. VEH-HRS	2939. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2534. VEH-HRS	2939. PASS-HRS
TOTAL TRAV DISTANCE =	8051. VEH-MI.	9339. PASS-MI.	152420. VEH-MI.	176807. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	421. GALLONS		8017. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		612. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1632.	0.	1632.	1632.	0.	1632.	3850.	0.	0.	0.	.42	50.	16.3	B	17.4	2.3
2	2	2070.	528.	0.	2160.	528.	0.	2160.	3847.	3.	0.	0.	.56	50.	21.6	C	15.9	2.3
3	3	2300.	1372.	292.	3532.	1372.	292.	3532.	5524.	176.	0.	0.	.64	55.	21.4	C	14.0	2.4
4	3	1020.	0.	0.	3240.	0.	0.	3240.	5700.	0.	0.	0.	.57	62.	17.4	B	19.9	4.8
5	3	710.	212.	0.	3452.	212.	0.	3452.	5700.	0.	0.	0.	.61	62.	18.6	C	16.1	4.4
6	3	3820.	376.	860.	3828.	376.	860.	3828.	6150.	0.	0.	0.	.62	62.	20.6	C	17.1	4.8
7	2	1220.	0.	0.	2968.	0.	0.	2968.	4400.	0.	0.	0.	.67	62.	23.9	C	18.2	4.4
8	2	4810.	616.	792.	3584.	616.	792.	3584.	4100.	0.	0.	0.	.87	59.	30.4	D	21.9	2.9
9	2	1370.	0.	0.	2792.	0.	0.	2792.	4000.	0.	0.	0.	.70	62.	22.5	C	23.6	4.4
10	2	660.	368.	0.	3160.	368.	0.	3160.	4367.	33.	0.	0.	.72	62.	25.5	C	23.6	4.3
11	3	790.	672.	732.	3832.	672.	732.	3832.	5517.	583.	0.	0.	.69	62.	20.6	C	30.0	4.4
12	2	1460.	0.	0.	3100.	0.	0.	3100.	4100.	0.	0.	0.	.76	62.	25.1	C	20.8	4.1
13	2	1400.	292.	0.	3392.	292.	0.	3392.	3970.	0.	0.	0.	.85	60.	28.5	D	14.2	3.1
14	2	2600.	0.	464.	3392.	0.	464.	3392.	3970.	0.	0.	0.	.85	60.	28.5	D	21.7	3.1
15	2	2010.	0.	0.	2928.	0.	0.	2928.	3900.	0.	0.	0.	.75	62.	23.6	C	14.7	4.4
16	2	6120.	320.	616.	3248.	320.	616.	3248.	3850.	0.	0.	0.	.84	60.	27.1	D	19.1	3.2
17	2	1240.	0.	0.	2632.	0.	0.	2632.	4300.	0.	0.	0.	.61	62.	21.2	C	18.2	4.4
18	2	930.	308.	0.	2940.	308.	0.	2940.	4100.	0.	0.	0.	.72	62.	23.7	C	20.6	4.4
19	2	5330.	148.	580.	3088.	148.	580.	3088.	3950.	0.	0.	0.	.78	61.	25.2	C	20.9	4.0
20	2	2830.	0.	0.	2508.	0.	0.	2508.	3800.	0.	0.	0.	.66	61.	20.6	C	21.1	3.8
21	2	1660.	284.	344.	2792.	284.	344.	2792.	4300.	0.	0.	0.	.65	61.	22.9	C	21.1	3.8
22	2	2270.	0.	0.	2448.	0.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	20.6	4.4
23	2	3040.	84.	364.	2532.	84.	364.	2532.	4100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
24	2	2190.	0.	0.	2168.	0.	0.	2168.	4200.	0.	0.	0.	.52	65.	16.7	B	19.2	6.1
25	3	2400.	100.	2268.	2268.	100.	2268.	2268.	6150.	0.	0.	0.	.37	65.	11.6	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.87 LOWEST LOS = D AVG = 60. 23.1 19.1 3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	129. VEH-HRS	150. PASS-HRS	2663. VEH-HRS	3090. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	129. VEH-HRS	150. PASS-HRS	2663. VEH-HRS	3090. PASS-HRS
TOTAL TRAV DISTANCE =	7816. VEH-MI.	9067. PASS-MI.	160236. VEH-MI.	185874. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	410. GALLONS		8427. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		642. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1748.	0.	1748.	1748.	0.	1748.	3850.	0.	0.	0.	.45	50.	17.5	B	17.4	2.3
2	2	2070.	532.	0.	2280.	532.	0.	2280.	3845.	5.	0.	0.	.59	50.	22.8	C	15.9	2.3
3	3	2300.	1516.	320.	3796.	1516.	320.	3796.	5501.	199.	0.	0.	.69	55.	23.0	C	14.0	2.4
4	3	1020.	0.	0.	3476.	0.	0.	3476.	5700.	0.	0.	0.	.61	62.	18.7	C	19.9	4.8
5	3	710.	156.	0.	3632.	156.	0.	3632.	5700.	0.	0.	0.	.64	62.	19.5	C	16.1	4.4
6	3	3820.	344.	876.	3976.	344.	876.	3976.	6150.	0.	0.	0.	.65	62.	21.4	C	17.1	4.8
7	2	1220.	0.	0.	3100.	0.	0.	3100.	4400.	0.	0.	0.	.70	62.	25.0	C	18.2	4.3
8	2	4810.	612.	824.	3712.	612.	824.	3712.	4100.	0.	0.	0.	.91	58.	32.2	D	22.3	2.6
9	2	1370.	0.	0.	2888.	0.	0.	2888.	4000.	0.	0.	0.	.72	62.	23.3	C	23.6	4.4
10	2	660.	244.	0.	3132.	244.	0.	3132.	4380.	20.	0.	0.	.72	62.	25.3	C	23.6	4.3
11	3	790.	716.	712.	3848.	716.	712.	3848.	5496.	604.	0.	0.	.70	62.	20.7	C	30.0	4.4
12	2	1460.	0.	0.	3136.	0.	0.	3136.	4100.	0.	0.	0.	.76	62.	25.5	C	20.8	4.1
13	2	1400.	400.	0.	3536.	400.	0.	3536.	3970.	0.	0.	0.	.89	58.	30.4	D	14.4	2.8
14	2	2600.	0.	556.	3536.	0.	556.	3536.	3970.	0.	0.	0.	.89	58.	30.4	D	22.1	2.8
15	2	2010.	0.	0.	2980.	0.	0.	2980.	3900.	0.	0.	0.	.76	62.	24.0	C	14.7	4.4
16	2	6120.	340.	860.	3320.	340.	860.	3320.	3850.	0.	0.	0.	.86	59.	28.0	D	19.2	3.0
17	2	1240.	0.	0.	2460.	0.	0.	2460.	4300.	0.	0.	0.	.57	62.	19.8	C	18.2	4.4
18	2	930.	304.	0.	2764.	304.	0.	2764.	4100.	0.	0.	0.	.67	62.	22.3	C	20.6	4.4
19	2	5330.	124.	464.	2888.	124.	464.	2888.	3950.	0.	0.	0.	.73	62.	23.3	C	20.6	4.4
20	2	2830.	0.	0.	2424.	0.	0.	2424.	3800.	0.	0.	0.	.64	61.	19.9	C	21.1	3.8
21	2	1660.	328.	428.	2752.	328.	428.	2752.	4300.	0.	0.	0.	.64	61.	22.6	C	21.1	3.8
22	2	2270.	0.	0.	2324.	0.	0.	2324.	4400.	0.	0.	0.	.53	62.	18.7	C	20.6	4.4
23	2	3040.	92.	344.	2416.	92.	344.	2416.	4100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
24	2	2190.	0.	0.	2072.	0.	0.	2072.	4200.	0.	0.	0.	.49	65.	15.9	B	19.2	6.1
25	3	2400.	68.	2140.	2140.	68.	2140.	2140.	6150.	0.	0.	0.	.35	65.	11.0	A	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.91 LOWEST LOS = D AVG = 60. 23.3 19.1 3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	131. VEH-HRS	152. PASS-HRS	2794. VEH-HRS	3242. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	131. VEH-HRS	152. PASS-HRS	2794. VEH-HRS	3242. PASS-HRS
TOTAL TRAV DISTANCE =	7865. VEH-MI.	9123. PASS-MI.	168101. VEH-MI.	194997. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	413. GALLONS		8840. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		672. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1812.	0.	1812.	1812.	0.	1812.	3850.	0.	0.	0.	.47	50.	18.1	C	17.4	2.3
2	2	2070.	568.	0.	2380.	568.	0.	2380.	3841.	9.	0.	0.	.62	50.	23.8	C	15.9	2.3
3	3	2300.	1644.	364.	4024.	1644.	364.	4024.	5474.	226.	0.	0.	.74	55.	24.4	C	14.0	2.4
4	3	1020.	0.	0.	3660.	0.	0.	3660.	5700.	0.	0.	0.	.64	62.	19.7	C	19.9	4.8
5	3	710.	184.	0.	3844.	184.	0.	3844.	5700.	0.	0.	0.	.67	62.	20.7	C	16.1	4.4
6	3	3820.	392.	924.	4236.	392.	924.	4236.	6150.	0.	0.	0.	.69	62.	22.8	C	17.1	4.8
7	2	1220.	0.	0.	3312.	0.	0.	3312.	4400.	0.	0.	0.	.75	62.	26.9	D	18.3	4.2
8	2	4810.	564.	900.	3876.	564.	900.	3876.	4100.	0.	0.	0.	.95	55.	35.0	D	23.0	2.1
9	2	1370.	0.	0.	2976.	0.	0.	2976.	4000.	0.	0.	0.	.74	62.	24.0	C	23.6	4.4
10	2	660.	236.	0.	3212.	236.	0.	3212.	4378.	22.	0.	0.	.73	62.	26.0	C	23.7	4.3
11	3	790.	744.	812.	3956.	744.	812.	3956.	5482.	618.	0.	0.	.72	62.	21.3	C	30.0	4.4
12	2	1460.	0.	0.	3144.	0.	0.	3144.	4100.	0.	0.	0.	.77	62.	25.6	C	20.8	4.1
13	2	1400.	428.	0.	3572.	428.	0.	3572.	3970.	0.	0.	0.	.90	58.	30.9	D	14.5	2.7
14	2	2600.	0.	676.	3572.	0.	676.	3572.	3970.	0.	0.	0.	.90	58.	30.9	D	22.3	2.7
15	2	2010.	0.	0.	2896.	0.	0.	2896.	3900.	0.	0.	0.	.74	62.	23.4	C	14.7	4.4
16	2	6120.	240.	636.	3136.	240.	636.	3136.	3850.	0.	0.	0.	.81	61.	25.8	C	18.7	3.6
17	2	1240.	0.	0.	2500.	0.	0.	2500.	4300.	0.	0.	0.	.58	62.	20.2	C	18.2	4.4
18	2	930.	260.	0.	2760.	260.	0.	2760.	4100.	0.	0.	0.	.67	62.	22.3	C	20.6	4.4
19	2	5330.	132.	500.	2892.	132.	500.	2892.	3950.	0.	0.	0.	.73	62.	23.3	C	20.6	4.4
20	2	2830.	0.	0.	2392.	0.	0.	2392.	3800.	0.	0.	0.	.63	61.	19.6	C	21.1	3.8
21	2	1660.	304.	400.	2696.	304.	400.	2696.	4300.	0.	0.	0.	.63	61.	22.1	C	21.1	3.8
22	2	2270.	0.	0.	2296.	0.	0.	2296.	4400.	0.	0.	0.	.52	62.	18.5	C	20.6	4.4
23	2	3040.	92.	324.	2388.	92.	324.	2388.	4100.	0.	0.	0.	.58	62.	19.3	C	20.6	4.4
24	2	2190.	0.	0.	2064.	0.	0.	2064.	4200.	0.	0.	0.	.49	65.	15.9	B	19.2	6.1
25	3	2400.	116.	2180.	2180.	116.	2180.	2180.	6150.	0.	0.	0.	.35	65.	11.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.95 LOWEST LOS = D AVG = 60. 23.6 19.0 3.8

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 24 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	133. VEH-HRS	154. PASS-HRS	2927. VEH-HRS	3396. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	133. VEH-HRS	154. PASS-HRS	2927. VEH-HRS	3396. PASS-HRS
TOTAL TRAV DISTANCE =	7963. VEH-MI.	9237. PASS-MI.	176064. VEH-MI.	204234. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	418. GALLONS		9258. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		703. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	60.	69.	0.	0.	60.	69.	3682.	4271.	61.5	195.	1.	12.	3.	14:00
2	75.	87.	0.	0.	75.	87.	4600.	5336.	61.4	244.	1.	15.	4.	14:15
3	108.	126.	0.	0.	108.	126.	6650.	7714.	61.4	353.	1.	22.	6.	14:30
4	130.	151.	0.	0.	130.	151.	7922.	9190.	60.9	418.	1.	25.	7.	14:45
5	108.	126.	0.	0.	108.	126.	6666.	7732.	61.5	353.	1.	22.	6.	15:00
6	126.	146.	0.	0.	126.	146.	7722.	8958.	61.1	407.	1.	25.	7.	15:15
7	142.	165.	0.	0.	142.	165.	8496.	9855.	59.8	436.	1.	23.	7.	15:30
8	151.	175.	0.	0.	151.	175.	8714.	10108.	57.6	446.	1.	23.	7.	15:45
9	154.	179.	0.	0.	154.	179.	8846.	10262.	57.4	459.	1.	23.	7.	16:00
10	114.	132.	0.	0.	114.	132.	6960.	8073.	61.3	371.	1.	23.	6.	16:15
11	134.	155.	0.	0.	134.	155.	8035.	9321.	60.0	421.	1.	23.	7.	16:30
12	112.	130.	0.	0.	112.	130.	6810.	7900.	60.8	362.	1.	21.	6.	16:45
13	134.	155.	0.	0.	134.	155.	7812.	9062.	58.5	405.	1.	22.	7.	17:00
14	118.	136.	0.	0.	118.	136.	7046.	8174.	59.9	373.	1.	21.	6.	17:15
15	112.	130.	0.	0.	112.	130.	6836.	7930.	61.1	365.	1.	22.	6.	17:30
16	116.	135.	0.	0.	116.	135.	7106.	8244.	61.0	379.	1.	23.	6.	17:45
17	115.	133.	0.	0.	115.	133.	6987.	8105.	60.9	373.	1.	22.	6.	18:00
18	128.	148.	0.	0.	128.	148.	7744.	8983.	60.6	410.	1.	23.	7.	18:15
19	121.	140.	0.	0.	121.	140.	7349.	8525.	60.7	390.	1.	22.	6.	18:30
20	143.	166.	0.	0.	143.	166.	8385.	9726.	58.7	435.	1.	23.	7.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	134.	155.	0.	0.	134.	155.	8051.	9339.	60.2	421.	1.	23.	7.	19:00
22	129.	150.	0.	0.	129.	150.	7816.	9067.	60.4	410.	1.	23.	7.	19:15
23	131.	152.	0.	0.	131.	152.	7865.	9123.	60.0	413.	1.	22.	7.	19:30
24	133.	154.	0.	0.	133.	154.	7963.	9237.	59.9	418.	1.	22.	7.	19:45
TOTAL	2927.	3396.	0.	0.	2927.	3396.	176064.	204234.	60.1	9258.	25.	525.	153.	

Existing (2019)
Southbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1992.	0.	1992.	1992.	0.	1992.	3850.	0.	0.	0.	.52	50.	19.9	C	17.4	2.3
2	2	2070.	628.	0.	2620.	628.	0.	2620.	3839.	11.	0.	0.	.68	50.	26.2	D	15.9	2.3
3	3	2300.	1688.	328.	4308.	1688.	328.	4308.	5886.	214.	0.	0.	.73	55.	26.1	D	14.0	2.4
4	3	1020.	0.	0.	3980.	0.	0.	3980.	6100.	0.	0.	0.	.65	62.	21.4	C	19.9	4.8
5	3	710.	164.	0.	4144.	164.	0.	4144.	6100.	0.	0.	0.	.68	62.	22.3	C	16.1	4.4
6	3	3820.	384.	1056.	4528.	384.	1056.	4528.	6106.	44.	0.	0.	.74	62.	24.3	C	17.1	4.8
7	2	1220.	0.	0.	3472.	0.	0.	3472.	4400.	0.	0.	0.	.79	61.	28.4	D	18.5	3.9
8	2	4810.	584.	692.	4056.	584.	692.	4056.	4600.	0.	0.	0.	.88	59.	34.6	D	22.0	2.9
9	2	1370.	0.	0.	3364.	0.	0.	3364.	4000.	0.	0.	0.	.84	60.	28.0	D	24.8	3.2
10	2	660.	276.	0.	3640.	276.	0.	3640.	4376.	24.	0.	0.	.83	60.	30.2	D	24.6	3.4
11	3	790.	772.	856.	4412.	772.	856.	4412.	5452.	648.	0.	0.	.81	62.	23.7	C	30.0	4.4
12	2	1460.	0.	0.	3556.	0.	0.	3454.	4100.	0. *	1415.	102.	.84	33.	52.3	F	20.5	3.4
13	2	1400.	516.	0.	4072.	516.	0.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	15.7	2.0
14	2	2600.	0.	584.	4072.	0.	569.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	23.9	2.0
15	2	2010.	0.	0.	3488.	0.	0.	3401.	3900.	0.	0.	0.	.87	59.	28.8	D	15.5	2.9
16	2	6120.	400.	636.	3888.	400.	622.	3801.	3850.	0.	0.	0.	.99	53.	36.2	E	21.0	2.0
17	2	1240.	0.	0.	3252.	0.	0.	3179.	4300.	0.	0.	0.	.74	62.	25.7	C	18.3	4.2
18	2	930.	500.	0.	3752.	500.	0.	3679.	4100.	0.	0.	0.	.90	58.	31.7	D	22.2	2.7
19	2	5330.	108.	540.	3860.	108.	530.	3787.	3950.	0.	0.	0.	.96	55.	34.7	D	23.2	2.0
20	2	2830.	0.	0.	3320.	0.	0.	3257.	3800.	0.	0.	0.	.86	59.	27.6	D	21.9	2.9
21	2	1660.	452.	556.	3772.	452.	547.	3709.	4146.	154.	0.	0.	.89	58.	32.2	D	22.3	2.6
22	2	2270.	0.	0.	3216.	0.	0.	3162.	4400.	0.	0.	0.	.72	62.	25.5	C	20.6	4.3
23	2	3040.	120.	348.	3336.	120.	342.	3282.	4100.	0.	0.	0.	.80	61.	26.9	D	21.1	3.8
24	2	2190.	0.	0.	2988.	0.	0.	2940.	4200.	0.	0.	0.	.70	65.	22.7	C	19.3	6.0
25	3	2400.	116.	3104.	3104.	116.	3056.	3056.	6150.	0.	0.	0.	.50	65.	15.7	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 56. 29.1 19.7 3.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	179. VEH-HRS	211. PASS-HRS	179. VEH-HRS	211. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	179. VEH-HRS	211. PASS-HRS	179. VEH-HRS	211. PASS-HRS
TOTAL TRAV DISTANCE =	10008. VEH-MI.	11810. PASS-MI.	10008. VEH-MI.	11810. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		56. MPH.	
AVERAGE DENSITY =	29. VPMPL		29. VPMPL	
TOTAL FUEL =	509. GALLONS		509. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		32. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2672.	0.	2672.	2672.	0.	2672.	3850.	0.	0.	0.	.69	50.	26.7	D	17.4	2.3
2	2	2070.	564.	0.	3236.	564.	0.	3236.	3831.	19.	0.	0.	.84	50.	32.4	D	15.9	2.3
3	3	2300.	1512.	372.	4748.	1512.	372.	4748.	5827.	273.	0.	0.	.81	55.	28.8	D	14.0	2.4
4	3	1020.	0.	0.	4376.	0.	0.	4376.	6100.	0.	0.	0.	.72	62.	23.5	C	19.9	4.8
5	3	710.	128.	0.	4504.	128.	0.	4504.	6100.	0.	0.	0.	.74	62.	24.2	C	16.1	4.4
6	3	3820.	304.	1252.	4808.	304.	1252.	4808.	6083.	67.	0.	0.	.79	61.	26.2	D	17.5	4.3
7	2	1220.	0.	0.	3556.	0.	0.	3556.	4400.	0.	0.	0.	.81	61.	29.2	D	18.7	3.7
8	2	4810.	624.	696.	4180.	624.	696.	3866.	4600.	0.	* 723.	314.	.84	56.	34.3	F	22.3	2.6
9	2	1370.	0.	0.	3484.	0.	0.	3170.	4000.	0.	** 1370.	314.	.79	34.	46.1	F	24.4	3.4
10	2	660.	284.	0.	3768.	284.	0.	3454.	4376.	24.	** 660.	314.	.79	25.	67.9	F	23.6	3.9
11	3	790.	916.	876.	4684.	916.	876.	4370.	5368.	732.	** 790.	314.	.81	22.	64.9	F	29.6	4.0
12	2	1460.	0.	0.	3808.	0.	0.	3494.	4100.	0.	** 1460.	314.	.85	23.	76.0	F	19.4	3.7
13	2	1400.	476.	0.	4284.	476.	0.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	15.7	2.0
14	2	2600.	0.	572.	4284.	0.	530.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	23.9	2.0
15	2	2010.	0.	0.	3712.	0.	0.	3430.	3900.	0.	* 169.	10.	.88	56.	30.9	F	15.5	2.9
16	2	6120.	420.	660.	4132.	420.	615.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3472.	0.	0.	3235.	4300.	0.	0.	0.	.75	62.	26.2	D	18.3	4.2
18	2	930.	472.	0.	3944.	472.	0.	3707.	4100.	0.	0.	0.	.90	58.	32.2	D	22.3	2.6
19	2	5330.	132.	580.	4076.	132.	546.	3839.	3950.	0.	0.	0.	.97	54.	35.8	E	23.4	2.0
20	2	2830.	0.	0.	3496.	0.	0.	3293.	3800.	0.	0.	0.	.87	59.	28.1	D	22.0	2.9
21	2	1660.	500.	628.	3996.	500.	596.	3793.	4069.	231.	0.	0.	.93	56.	34.0	D	22.9	2.2
22	2	2270.	0.	0.	3368.	0.	0.	3197.	4400.	0.	0.	0.	.73	62.	25.8	C	20.6	4.3
23	2	3040.	84.	424.	3452.	84.	403.	3281.	4100.	0.	0.	0.	.80	61.	26.9	D	21.1	3.8
24	2	2190.	0.	0.	3028.	0.	0.	2878.	4200.	0.	0.	0.	.69	65.	22.1	C	19.2	6.1
25	3	2400.	92.	3120.	3120.	92.	2970.	2970.	6150.	0.	0.	0.	.48	65.	15.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 52.	32.6		19.6	3.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	203. VEH-HRS	239. PASS-HRS	381. VEH-HRS	450. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	203. VEH-HRS	239. PASS-HRS	381. VEH-HRS	450. PASS-HRS
TOTAL TRAV DISTANCE =	10465. VEH-MI.	12349. PASS-MI.	20473. VEH-MI.	24158. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		54. MPH.	
AVERAGE DENSITY =	33. VPMPL		31. VPMPL	
TOTAL FUEL =	534. GALLONS		1043. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		64. KILOGRAMS	

QUEUE CLEAR SECTION 15 T2 =0.222

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2108.	0.	2108.	2108.	0.	2108.	3850.	0.	0.	0.	.55	50.	21.1	C	17.4	2.3
2	2	2070.	536.	0.	2644.	536.	0.	2644.	3836.	14.	0.	0.	.69	50.	26.4	D	15.9	2.3
3	3	2300.	1784.	396.	4428.	1784.	396.	4428.	5849.	251.	0.	0.	.76	55.	26.8	D	14.0	2.4
4	3	1020.	0.	0.	4032.	0.	0.	4032.	6100.	0.	0.	0.	.66	62.	21.7	C	19.9	4.8
5	3	710.	132.	0.	4164.	132.	0.	4164.	6100.	0.	0.	0.	.68	62.	22.4	C	16.1	4.4
6	3	3820.	308.	1052.	4472.	308.	1052.	4472.	6126.	24.	0.	0.	.73	62.	24.0	C	17.1	4.8
7	2	1220.	0.	0.	3420.	0.	0.	3420.	4400.	0.	0.	0.	.78	61.	27.9	D	18.4	4.0
8	2	4810.	564.	680.	3984.	564.	680.	3671.	4600.	0.	* 4064.	313.	.80	30.	61.7	F	19.9	3.6
9	2	1370.	0.	0.	3304.	0.	0.	2991.	4000.	0.	** 1370.	313.	.75	16.	91.2	F	20.7	5.0
10	2	660.	344.	0.	3648.	344.	0.	3335.	4371.	29.	** 660.	313.	.76	17.	96.9	F	21.4	4.8
11	3	790.	944.	872.	4592.	944.	872.	4279.	5373.	727.	** 790.	313.	.80	19.	74.6	F	27.7	4.4
12	2	1460.	0.	0.	3720.	0.	0.	3407.	4100.	0.	** 1460.	313.	.83	21.	79.6	F	18.9	4.0
13	2	1400.	540.	0.	4260.	540.	0.	3947.	3947.	23.	0.	0.	1.00	52.	38.3	E	15.7	2.0
14	2	2600.	0.	672.	4260.	0.	623.	3947.	3947.	23.	0.	0.	1.00	52.	38.3	E	23.9	2.0
15	2	2010.	0.	0.	3588.	0.	0.	3337.	3900.	0.	0.	-13.	.86	56.	29.6	D	15.3	3.1
16	2	6120.	492.	692.	4080.	492.	649.	3829.	3850.	0.	0.	0.	.99	52.	36.8	E	21.1	2.0
17	2	1240.	0.	0.	3388.	0.	0.	3180.	4300.	0.	0.	0.	.74	62.	25.7	C	18.3	4.2
18	2	930.	500.	0.	3888.	500.	0.	3680.	4100.	0.	0.	0.	.90	58.	31.8	D	22.2	2.7
19	2	5330.	156.	552.	4044.	156.	524.	3836.	3950.	0.	0.	0.	.97	54.	35.7	E	23.4	2.0
20	2	2830.	0.	0.	3492.	0.	0.	3312.	3800.	0.	0.	0.	.87	58.	28.3	D	22.1	2.8
21	2	1660.	476.	648.	3968.	476.	619.	3788.	4080.	220.	0.	0.	.93	56.	33.8	D	22.8	2.2
22	2	2270.	0.	0.	3320.	0.	0.	3170.	4400.	0.	0.	0.	.72	62.	25.6	C	20.6	4.3
23	2	3040.	96.	380.	3416.	96.	363.	3266.	4100.	0.	0.	0.	.80	61.	26.7	D	21.1	3.8
24	2	2190.	0.	0.	3036.	0.	0.	2903.	4200.	0.	0.	0.	.69	65.	22.4	C	19.2	6.0
25	3	2400.	84.	3120.	3120.	84.	2987.	2987.	6150.	0.	0.	0.	.49	65.	15.3	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 46.	35.1		19.4	3.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	216. VEH-HRS	255. PASS-HRS	597. VEH-HRS	705. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	216. VEH-HRS	255. PASS-HRS	597. VEH-HRS	705. PASS-HRS
TOTAL TRAV DISTANCE =	9960. VEH-MI.	11753. PASS-MI.	30433. VEH-MI.	35911. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		51. MPH.	
AVERAGE DENSITY =	35. VPMPL		32. VPMPL	
TOTAL FUEL =	515. GALLONS		1558. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		97. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2648.	0.	2648.	2648.	0.	2648.	3850.	0.	0.	0.	.69	50.	26.5	D	17.4	2.3
2	2	2070.	472.	0.	3120.	472.	0.	3120.	3836.	14.	0.	0.	.81	50.	31.2	D	15.9	2.3
3	3	2300.	1632.	352.	4752.	1632.	352.	4752.	5851.	249.	0.	0.	.81	55.	28.8	D	14.0	2.4
4	3	1020.	0.	0.	4400.	0.	0.	4400.	6100.	0.	0.	0.	.72	62.	23.7	C	19.9	4.8
5	3	710.	128.	0.	4528.	128.	0.	4528.	6100.	0.	0.	0.	.74	62.	24.3	C	16.1	4.4
6	3	3820.	264.	1104.	4792.	264.	1104.	4406.	6130.	20.	* 1222.	386.	.72	50.	29.6	F	17.0	4.5
7	2	1220.	0.	0.	3688.	0.	0.	3302.	4400.	0.	** 1220.	386.	.75	22.	75.2	F	15.6	4.4
8	2	4810.	536.	768.	4224.	536.	768.	3838.	4600.	0.	** 4810.	386.	.83	22.	87.9	F	19.1	3.9
9	2	1370.	0.	0.	3456.	0.	0.	3070.	4000.	0.	** 1370.	386.	.77	17.	88.0	F	21.6	4.7
10	2	660.	264.	0.	3720.	264.	0.	3334.	4376.	24.	** 660.	386.	.76	17.	97.3	F	21.4	4.8
11	3	790.	968.	908.	4688.	968.	908.	4302.	5352.	748.	** 790.	386.	.80	20.	73.2	F	28.4	4.3
12	2	1460.	0.	0.	3780.	0.	0.	3394.	4100.	0.	** 1460.	386.	.83	21.	80.1	F	18.9	4.0
13	2	1400.	576.	0.	4356.	576.	0.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	15.7	2.0
14	2	2600.	0.	600.	4356.	0.	547.	3817.	3970.	0.	* 568.	153.	.96	51.	37.2	F	23.9	2.0
15	2	2010.	0.	0.	3756.	0.	0.	3270.	3900.	0.	** 2010.	153.	.84	31.	52.9	F	14.3	3.4
16	2	6120.	580.	628.	4336.	580.	558.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3708.	0.	0.	3292.	4300.	0.	0.	0.	.77	62.	26.8	D	18.4	4.1
18	2	930.	440.	0.	4148.	440.	0.	3732.	4100.	0.	0.	0.	.91	57.	32.5	D	22.4	2.5
19	2	5330.	128.	540.	4276.	128.	488.	3860.	3950.	0.	0.	0.	.98	53.	36.2	E	23.5	2.0
20	2	2830.	0.	0.	3736.	0.	0.	3373.	3800.	0.	0.	0.	.89	58.	29.1	D	22.3	2.7
21	2	1660.	512.	704.	4248.	512.	644.	3885.	4000.	300.	0.	0.	.97	53.	36.3	E	23.5	2.0
22	2	2270.	0.	0.	3544.	0.	0.	3241.	4400.	0.	0.	0.	.74	62.	26.2	D	20.7	4.2
23	2	3040.	316.	392.	3860.	316.	361.	3557.	4100.	0.	0.	0.	.87	59.	30.1	D	21.9	3.0
24	2	2190.	0.	0.	3468.	0.	0.	3196.	4200.	0.	0.	0.	.76	64.	25.0	C	19.6	5.5
25	3	2400.	116.	3584.	3584.	116.	3312.	3312.	6150.	0.	0.	0.	.54	65.	17.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 42.	40.6		19.2	3.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	250. VEH-HRS	295. PASS-HRS	848. VEH-HRS	1000. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	250. VEH-HRS	295. PASS-HRS	848. VEH-HRS	1000. PASS-HRS
TOTAL TRAV DISTANCE =	10453. VEH-MI.	12335. PASS-MI.	40886. VEH-MI.	48246. PASS-MI.
AVERAGE SYSTEM SPEED =	42. MPH.		48. MPH.	
AVERAGE DENSITY =	41. VPMPL		34. VPMPL	
TOTAL FUEL =	545. GALLONS		2103. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		130. KILOGRAMS	

QUEUE COLLISION IN SECTION 13 T2 =0.108

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2172.	0.	2172.	2172.	0.	2172.	3850.	0.	0.	0.	.56	50.	21.7	C	17.4	2.3
2	2	2070.	452.	0.	2624.	452.	0.	2624.	3834.	16.	0.	0.	.68	50.	26.2	D	15.9	2.3
3	3	2300.	1460.	496.	4084.	1460.	496.	4084.	5762.	338.	0.	0.	.71	55.	24.8	C	14.0	2.4
4	3	1020.	0.	0.	3588.	0.	0.	3588.	6100.	0.	0.	0.	.59	62.	19.3	C	19.9	4.8
5	3	710.	72.	0.	3660.	72.	0.	3660.	6100.	0.	0.	0.	.60	62.	19.7	C	16.1	4.4
6	3	3820.	276.	1104.	3936.	276.	1104.	3848.	6130.	20.	* 1071.	88.	.63	30.	43.0	F	15.4	5.2
7	2	1220.	0.	0.	2832.	0.	0.	2744.	4400.	0.	** 1220.	88.	.62	12.	113.3	F	12.6	5.8
8	2	4810.	504.	720.	3336.	504.	720.	3248.	4600.	0.	** 4810.	88.	.71	16.	104.4	F	16.4	5.1
9	2	1370.	0.	0.	2616.	0.	0.	2528.	4000.	0.	** 1370.	88.	.63	13.	101.0	F	16.9	5.7
10	2	660.	324.	0.	2940.	324.	0.	2852.	4373.	27.	** 660.	88.	.65	13.	107.9	F	17.6	5.6
11	3	790.	1072.	760.	4012.	1072.	760.	3924.	5511.	589.	** 790.	88.	.71	16.	83.6	F	23.6	5.1
12	2	1460.	0.	0.	3252.	0.	0.	3164.	4100.	0.	** 1460.	88.	.77	19.	81.9	F	18.1	4.3
13	2	1400.	544.	0.	3796.	544.	0.	3708.	3970.	0.	** 1400.	262.	.93	36.	51.6	F	14.9	2.5
14	2	2600.	0.	388.	3796.	0.	406.	3708.	3970.	0.	** 2600.	262.	.93	32.	57.7	F	21.9	2.8
15	2	2010.	0.	0.	3408.	0.	0.	3302.	3900.	0.	** 2010.	262.	.85	23.	73.2	F	13.5	3.8
16	2	6120.	548.	500.	3956.	548.	487.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3456.	0.	0.	3363.	4300.	0.	0.	0.	.78	61.	27.4	D	18.5	4.0
18	2	930.	352.	0.	3808.	352.	0.	3715.	4100.	0.	0.	0.	.91	58.	32.3	D	22.3	2.6
19	2	5330.	100.	480.	3908.	100.	469.	3815.	3950.	0.	0.	0.	.97	54.	35.3	E	23.4	2.0
20	2	2830.	0.	0.	3428.	0.	0.	3347.	3800.	0.	0.	0.	.88	58.	28.8	D	22.2	2.7
21	2	1660.	496.	664.	3924.	496.	650.	3843.	4053.	247.	0.	0.	.95	55.	35.0	E	23.2	2.0
22	2	2270.	0.	0.	3260.	0.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	20.6	4.3
23	2	3040.	260.	372.	3520.	260.	365.	3452.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
24	2	2190.	0.	0.	3148.	0.	0.	3087.	4200.	0.	0.	0.	.74	64.	24.0	C	19.4	5.8
25	3	2400.	144.	3292.	3292.	144.	3231.	3231.	6150.	0.	0.	0.	.53	65.	16.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 35.	44.7		18.5	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	278. VEH-HRS	328. PASS-HRS	1126. VEH-HRS	1328. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	278. VEH-HRS	328. PASS-HRS	1126. VEH-HRS	1328. PASS-HRS
TOTAL TRAV DISTANCE =	9675. VEH-MI.	11416. PASS-MI.	50561. VEH-MI.	59662. PASS-MI.
AVERAGE SYSTEM SPEED =	35. MPH.		45. MPH.	
AVERAGE DENSITY =	45. VPMPL		36. VPMPL	
TOTAL FUEL =	524. GALLONS		2627. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		164. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2268.	0.	2268.	2268.	0.	2268.	3850.	0.	0.	0.	.59	50.	22.7	C	17.4	2.3
2	2	2070.	400.	0.	2668.	400.	0.	2668.	3836.	14.	0.	0.	.70	50.	26.7	D	15.9	2.3
3	3	2300.	1416.	432.	4084.	1416.	432.	4084.	5800.	300.	0.	0.	.70	55.	24.8	C	14.0	2.4
4	3	1020.	0.	0.	3652.	0.	0.	3652.	6100.	0.	0.	0.	.60	62.	19.6	C	19.9	4.8
5	3	710.	68.	0.	3720.	68.	0.	3720.	6100.	0.	0.	0.	.61	62.	20.0	C	16.1	4.4
6	3	3820.	220.	1112.	3940.	220.	1112.	3814.	6142.	8.	* 1664.	126.	.62	24.	53.5	F	14.6	5.5
7	2	1220.	0.	0.	2828.	0.	0.	2702.	4400.	0.	** 1220.	126.	.61	11.	124.4	F	12.1	6.1
8	2	4810.	532.	680.	3360.	532.	680.	3234.	4600.	0.	** 4810.	126.	.70	14.	113.3	F	15.7	5.4
9	2	1370.	0.	0.	2680.	0.	0.	2554.	4000.	0.	** 1370.	126.	.64	12.	109.1	F	16.0	5.9
10	2	660.	300.	0.	2980.	300.	0.	2854.	4375.	25.	** 660.	126.	.65	12.	116.8	F	16.5	5.8
11	3	790.	1016.	724.	3996.	1016.	724.	3870.	5529.	571.	** 790.	126.	.70	14.	91.3	F	21.7	5.4
12	2	1460.	0.	0.	3272.	0.	0.	3146.	4100.	0.	** 1460.	126.	.77	17.	90.2	F	17.3	4.7
13	2	1400.	560.	0.	3832.	560.	0.	3706.	3970.	0.	** 1400.	126.	.93	31.	60.4	F	14.5	2.9
14	2	2600.	0.	336.	3832.	0.	336.	3706.	3970.	0.	** 2600.	126.	.93	31.	60.4	F	21.7	2.9
15	2	2010.	0.	0.	3496.	0.	0.	3370.	3900.	0.	** 2010.	126.	.86	24.	70.4	F	13.8	3.6
16	2	6120.	480.	464.	3976.	480.	449.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3512.	0.	0.	3401.	4300.	0.	0.	0.	.79	61.	27.8	D	18.5	3.9
18	2	930.	356.	0.	3868.	356.	0.	3757.	4100.	0.	0.	0.	.92	57.	32.9	D	22.5	2.5
19	2	5330.	104.	436.	3972.	104.	424.	3861.	3950.	0.	0.	0.	.98	53.	36.2	E	23.5	2.0
20	2	2830.	0.	0.	3536.	0.	0.	3437.	3800.	0.	0.	0.	.90	57.	30.1	D	22.5	2.5
21	2	1660.	512.	588.	4048.	512.	574.	3949.	4060.	240.	0.	0.	.97	53.	37.0	E	23.5	2.0
22	2	2270.	0.	0.	3460.	0.	0.	3375.	4400.	0.	0.	0.	.77	62.	27.4	D	20.8	4.1
23	2	3040.	140.	368.	3600.	140.	359.	3515.	4100.	0.	0.	0.	.86	60.	29.5	D	21.8	3.1
24	2	2190.	0.	0.	3232.	0.	0.	3156.	4200.	0.	0.	0.	.75	64.	24.6	C	19.5	5.6
25	3	2400.	132.	3364.	3364.	132.	3288.	3288.	6150.	0.	0.	0.	.53	65.	16.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 33.	47.6		18.3	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	293. VEH-HRS	346. PASS-HRS	1419. VEH-HRS	1674. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	293. VEH-HRS	346. PASS-HRS	1419. VEH-HRS	1674. PASS-HRS
TOTAL TRAV DISTANCE =	9717. VEH-MI.	11466. PASS-MI.	60278. VEH-MI.	71128. PASS-MI.
AVERAGE SYSTEM SPEED =	33. MPH.		42. MPH.	
AVERAGE DENSITY =	48. VPMPL		38. VPMPL	
TOTAL FUEL =	531. GALLONS		3159. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		199. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2036.	0.	2036.	2036.	0.	2036.	3850.	0.	0.	0.	.53	50.	20.4	C	17.4	2.3
2	2	2070.	444.	0.	2480.	444.	0.	2480.	3838.	12.	0.	0.	.65	50.	24.8	C	15.9	2.3
3	3	2300.	1648.	492.	4128.	1648.	492.	4128.	5790.	310.	0.	0.	.71	55.	25.0	C	14.0	2.4
4	3	1020.	0.	0.	3636.	0.	0.	3636.	6100.	0.	0.	0.	.60	62.	19.5	C	19.9	4.8
5	3	710.	56.	0.	3692.	56.	0.	3692.	6100.	0.	0.	0.	.61	62.	19.8	C	16.1	4.4
6	3	3820.	228.	1172.	3920.	228.	1172.	3882.	6126.	24.	* 1848.	38.	.63	21.	62.6	F	14.1	5.6
7	2	1220.	0.	0.	2748.	0.	0.	2710.	4400.	0.	** 1220.	38.	.62	11.	124.0	F	12.1	6.1
8	2	4810.	544.	724.	3292.	544.	724.	3254.	4600.	0.	** 4810.	38.	.71	14.	112.5	F	15.9	5.4
9	2	1370.	0.	0.	2568.	0.	0.	2530.	4000.	0.	** 1370.	38.	.63	11.	110.0	F	15.9	6.0
10	2	660.	300.	0.	2868.	300.	0.	2830.	4375.	25.	** 660.	38.	.65	12.	117.8	F	16.3	5.9
11	3	790.	1052.	744.	3920.	1052.	744.	3882.	5525.	575.	** 790.	38.	.70	14.	90.8	F	21.8	5.4
12	2	1460.	0.	0.	3176.	0.	0.	3138.	4100.	0.	** 1460.	38.	.77	17.	90.5	F	17.3	4.8
13	2	1400.	584.	0.	3760.	584.	0.	3722.	3970.	0.	** 1400.	38.	.94	31.	59.8	F	14.6	2.8
14	2	2600.	0.	332.	3760.	0.	332.	3722.	3970.	0.	** 2600.	38.	.94	31.	59.8	F	21.8	2.8
15	2	2010.	0.	0.	3428.	0.	0.	3390.	3900.	0.	** 2010.	38.	.87	24.	69.6	F	13.9	3.5
16	2	6120.	460.	468.	3888.	460.	463.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3420.	0.	0.	3387.	4300.	0.	0.	0.	.79	61.	27.7	D	18.5	3.9
18	2	930.	404.	0.	3824.	404.	0.	3791.	4100.	0.	0.	0.	.92	57.	33.5	D	22.6	2.4
19	2	5330.	124.	468.	3948.	124.	464.	3915.	3950.	0.	0.	0.	.99	52.	37.4	E	23.8	2.0
20	2	2830.	0.	0.	3480.	0.	0.	3451.	3800.	0.	0.	0.	.91	57.	30.3	D	22.5	2.5
21	2	1660.	492.	628.	3972.	492.	623.	3943.	4071.	229.	0.	0.	.97	54.	36.8	E	23.5	2.0
22	2	2270.	0.	0.	3344.	0.	0.	3319.	4400.	0.	0.	0.	.75	62.	26.9	D	20.7	4.2
23	2	3040.	116.	360.	3460.	116.	357.	3435.	4100.	0.	0.	0.	.84	60.	28.6	D	21.6	3.3
24	2	2190.	0.	0.	3100.	0.	0.	3078.	4200.	0.	0.	0.	.73	64.	23.9	C	19.4	5.8
25	3	2400.	108.	3208.	3208.	108.	3186.	3186.	6150.	0.	0.	0.	.52	65.	16.3	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 33.	47.8		18.3	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	295. VEH-HRS	348. PASS-HRS	1714. VEH-HRS	2022. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	295. VEH-HRS	348. PASS-HRS	1714. VEH-HRS	2022. PASS-HRS
TOTAL TRAV DISTANCE =	9619. VEH-MI.	11351. PASS-MI.	69897. VEH-MI.	82478. PASS-MI.
AVERAGE SYSTEM SPEED =	33. MPH.		41. MPH.	
AVERAGE DENSITY =	48. VPMPL		40. VPMPL	
TOTAL FUEL =	527. GALLONS		3686. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		233. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3032.	0.	3032.	3032.	0.	3032.	3850.	0.	0.	0.	.79	50.	30.3	D	17.4	2.3
2	2	2070.	368.	0.	3400.	368.	0.	3400.	3830.	20.	0.	0.	.89	50.	34.0	D	15.9	2.3
3	3	2300.	1268.	552.	4668.	1268.	552.	4668.	5674.	426.	0.	0.	.82	55.	28.3	D	14.0	2.4
4	3	1020.	0.	0.	4116.	0.	0.	4116.	6100.	0.	0.	0.	.67	62.	22.1	C	19.9	4.8
5	3	710.	28.	0.	4144.	28.	0.	4144.	6100.	0.	0.	0.	.68	62.	22.3	C	16.1	4.4
6	3	3820.	176.	1240.	4320.	176.	1240.	4010.	6125.	25.	* 3442.	310.	.65	17.	80.5	F	13.2	5.9
7	2	1220.	0.	0.	3080.	0.	0.	2770.	4400.	0.	** 1220.	310.	.63	11.	121.6	F	12.3	6.0
8	2	4810.	472.	772.	3552.	472.	772.	3242.	4600.	0.	** 4810.	310.	.70	14.	113.0	F	15.8	5.4
9	2	1370.	0.	0.	2780.	0.	0.	2470.	4000.	0.	** 1370.	310.	.62	11.	112.5	F	15.4	6.1
10	2	660.	304.	0.	3084.	304.	0.	2774.	4375.	25.	** 660.	310.	.63	12.	120.0	F	15.9	6.0
11	3	790.	1120.	784.	4204.	1120.	784.	3894.	5493.	607.	** 790.	310.	.71	15.	89.3	F	22.3	5.4
12	2	1460.	0.	0.	3420.	0.	0.	3110.	4100.	0.	** 1460.	310.	.76	17.	91.7	F	17.1	4.8
13	2	1400.	624.	0.	4044.	624.	0.	3734.	3970.	0.	** 1400.	236.	.94	32.	59.2	F	14.6	2.8
14	2	2600.	0.	412.	4044.	0.	404.	3733.	3970.	0.	** 2600.	236.	.94	31.	59.3	F	21.9	2.8
15	2	2010.	0.	0.	3632.	0.	0.	3330.	3900.	0.	** 2010.	236.	.85	23.	72.0	F	13.6	3.7
16	2	6120.	520.	540.	4152.	520.	501.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3612.	0.	0.	3349.	4300.	0.	0.	0.	.78	61.	27.3	D	18.4	4.0
18	2	930.	440.	0.	4052.	440.	0.	3782.	4100.	0.	* 156.	7.	.92	53.	36.0	F	22.5	2.4
19	2	5330.	168.	576.	4220.	168.	539.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3644.	0.	0.	3411.	3800.	0.	0.	0.	.90	57.	29.7	D	22.4	2.6
21	2	1660.	476.	664.	4120.	476.	626.	3887.	4060.	240.	0.	0.	.96	54.	35.8	E	23.3	2.0
22	2	2270.	0.	0.	3456.	0.	0.	3260.	4400.	0.	0.	0.	.74	62.	26.4	D	20.7	4.2
23	2	3040.	108.	384.	3564.	108.	363.	3368.	4100.	0.	0.	0.	.82	61.	27.8	D	21.3	3.5
24	2	2190.	0.	0.	3180.	0.	0.	3005.	4200.	0.	0.	0.	.72	65.	23.3	C	19.3	5.9
25	3	2400.	128.	3308.	3308.	128.	3133.	3133.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 32. 50.5 18.0 3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	316. VEH-HRS	372. PASS-HRS	2029. VEH-HRS	2395. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	316. VEH-HRS	372. PASS-HRS	2029. VEH-HRS	2395. PASS-HRS
TOTAL TRAV DISTANCE =	10098. VEH-MI.	11916. PASS-MI.	79995. VEH-MI.	94394. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		39. MPH.	
AVERAGE DENSITY =	51. VPMPL		41. VPMPL	
TOTAL FUEL =	561. GALLONS		4247. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		269. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2776.	0.	2776.	2776.	0.	2776.	3850.	0.	0.	0.	.72	50.	27.8	D	17.4	2.3
2	2	2070.	364.	0.	3140.	364.	0.	3140.	3832.	18.	0.	0.	.82	50.	31.4	D	15.9	2.3
3	3	2300.	1236.	536.	4376.	1236.	536.	4376.	5714.	386.	0.	0.	.77	55.	26.5	D	14.0	2.4
4	3	1020.	0.	0.	3840.	0.	0.	3586.	6100.	0.	* 88.	254.	.59	61.	19.6	F	19.9	4.8
5	3	710.	72.	0.	3912.	72.	0.	3658.	6100.	0.	** 710.	254.	.60	22.	55.6	F	13.7	5.0
6	3	3820.	172.	1188.	4084.	172.	1188.	3830.	6132.	18.	** 3820.	254.	.62	11.	112.3	F	11.6	6.6
7	2	1220.	0.	0.	2896.	0.	0.	2642.	4400.	0.	** 1220.	254.	.60	10.	126.8	F	11.9	6.2
8	2	4810.	436.	768.	3332.	436.	768.	3078.	4600.	0.	** 4810.	254.	.67	13.	119.7	F	14.8	5.7
9	2	1370.	0.	0.	2564.	0.	0.	2310.	4000.	0.	** 1370.	254.	.58	10.	119.0	F	14.1	6.4
10	2	660.	264.	0.	2828.	264.	0.	2574.	4378.	22.	** 660.	254.	.59	10.	128.4	F	14.6	6.3
11	3	790.	1052.	684.	3880.	1052.	684.	3626.	5574.	526.	** 790.	254.	.65	12.	99.5	F	19.1	5.8
12	2	1460.	0.	0.	3196.	0.	0.	2942.	4100.	0.	** 1460.	254.	.72	15.	98.6	F	16.2	5.3
13	2	1400.	660.	0.	3856.	660.	0.	3602.	3970.	0.	** 1400.	254.	.91	28.	64.7	F	14.0	3.1
14	2	2600.	0.	400.	3856.	0.	400.	3602.	3970.	0.	** 2600.	254.	.91	28.	64.7	F	20.9	3.1
15	2	2010.	0.	0.	3456.	0.	0.	3202.	3900.	0.	** 2010.	254.	.82	21.	77.3	F	13.1	4.1
16	2	6120.	648.	548.	4104.	648.	514.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3556.	0.	0.	3278.	4300.	0.	* 198.	58.	.76	57.	28.6	F	18.3	4.0
18	2	930.	472.	0.	4028.	472.	0.	3750.	4100.	0.	** 930.	58.	.91	33.	56.8	F	21.5	2.9
19	2	5330.	200.	600.	4228.	200.	561.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3628.	0.	0.	3389.	3800.	0.	0.	0.	.89	58.	29.4	D	22.3	2.6
21	2	1660.	452.	652.	4080.	452.	614.	3841.	4091.	209.	0.	0.	.94	55.	34.7	D	23.0	2.1
22	2	2270.	0.	0.	3428.	0.	0.	3228.	4400.	0.	0.	0.	.73	62.	26.1	D	20.7	4.3
23	2	3040.	128.	360.	3556.	128.	340.	3356.	4100.	0.	0.	0.	.82	61.	27.7	D	21.3	3.5
24	2	2190.	0.	0.	3196.	0.	0.	3016.	4200.	0.	0.	0.	.72	65.	23.3	C	19.3	5.9
25	3	2400.	132.	3328.	3328.	132.	3148.	3148.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 28.	54.5		17.5	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	345. VEH-HRS	407. PASS-HRS	2374. VEH-HRS	2801. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	345. VEH-HRS	407. PASS-HRS	2374. VEH-HRS	2801. PASS-HRS
TOTAL TRAV DISTANCE =	9760. VEH-MI.	11516. PASS-MI.	89755. VEH-MI.	105911. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		38. MPH.	
AVERAGE DENSITY =	54. VPMPL		43. VPMPL	
TOTAL FUEL =	558. GALLONS		4805. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		305. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3028.	0.	3028.	3028.	0.	3028.	3850.	0.	0.	0.	.79	50.	30.3	D	17.4	2.3
2	2	2070.	316.	0.	3344.	316.	0.	3344.	3832.	18.	0.	0.	.87	50.	33.4	D	15.9	2.3
3	3	2300.	1232.	560.	4576.	1232.	560.	4246.	5672.	428.	* 971.	330.	.75	47.	30.4	F	13.7	2.6
4	3	1020.	0.	0.	4016.	0.	0.	3686.	6100.	0.	** 1020.	330.	.60	14.	87.9	F	14.3	6.2
5	3	710.	56.	0.	4072.	56.	0.	3742.	6100.	0.	** 710.	330.	.61	11.	115.0	F	11.1	6.1
6	3	3820.	168.	1200.	4240.	168.	1200.	3910.	6132.	18.	** 3820.	330.	.64	12.	111.6	F	11.7	6.5
7	2	1220.	0.	0.	3040.	0.	0.	2710.	4400.	0.	** 1220.	330.	.62	11.	124.0	F	12.1	6.1
8	2	4810.	352.	768.	3392.	352.	768.	3062.	4600.	0.	** 4810.	330.	.67	13.	120.3	F	14.7	5.7
9	2	1370.	0.	0.	2624.	0.	0.	2294.	4000.	0.	** 1370.	330.	.57	10.	119.7	F	13.9	6.5
10	2	660.	256.	0.	2880.	256.	0.	2550.	4380.	20.	** 660.	330.	.58	10.	129.5	F	14.3	6.4
11	3	790.	1044.	688.	3924.	1044.	688.	3594.	5572.	528.	** 790.	330.	.65	12.	100.3	F	18.9	5.9
12	2	1460.	0.	0.	3236.	0.	0.	2906.	4100.	0.	** 1460.	330.	.71	15.	100.0	F	15.9	5.4
13	2	1400.	628.	0.	3864.	628.	0.	3534.	3970.	0.	** 1400.	330.	.89	26.	67.4	F	13.7	3.3
14	2	2600.	0.	396.	3864.	0.	396.	3534.	3970.	0.	** 2600.	330.	.89	26.	67.4	F	20.5	3.3
15	2	2010.	0.	0.	3468.	0.	0.	3138.	3900.	0.	** 2010.	330.	.80	20.	79.9	F	12.8	4.3
16	2	6120.	712.	524.	4180.	712.	483.	3737.	3850.	0.	* 195.	113.	.97	52.	36.2	F	21.2	2.0
17	2	1240.	0.	0.	3656.	0.	0.	3254.	4300.	0.	** 1240.	113.	.76	24.	67.7	F	15.8	4.5
18	2	930.	492.	0.	4148.	492.	0.	3746.	4100.	0.	** 930.	113.	.91	29.	65.7	F	21.1	3.1
19	2	5330.	204.	596.	4352.	204.	541.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3756.	0.	0.	3409.	3800.	0.	0.	0.	.90	57.	29.7	D	22.4	2.6
21	2	1660.	428.	676.	4184.	428.	620.	3837.	4102.	198.	0.	0.	.94	56.	34.5	D	22.9	2.1
22	2	2270.	0.	0.	3508.	0.	0.	3217.	4400.	0.	0.	0.	.73	62.	26.0	D	20.7	4.3
23	2	3040.	148.	364.	3656.	148.	335.	3365.	4100.	0.	0.	0.	.82	61.	27.8	D	21.3	3.5
24	2	2190.	0.	0.	3292.	0.	0.	3030.	4200.	0.	0.	0.	.72	65.	23.5	C	19.4	5.9
25	3	2400.	120.	3412.	3412.	120.	3150.	3150.	6150.	0.	0.	0.	.51	65.	16.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 27.	57.9		17.2	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	371. VEH-HRS	438. PASS-HRS	2745. VEH-HRS	3239. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	371. VEH-HRS	438. PASS-HRS	2745. VEH-HRS	3239. PASS-HRS
TOTAL TRAV DISTANCE =	9859. VEH-MI.	11634. PASS-MI.	99614. VEH-MI.	117545. PASS-MI.
AVERAGE SYSTEM SPEED =	27. MPH.		36. MPH.	
AVERAGE DENSITY =	58. VPMPL		44. VPMPL	
TOTAL FUEL =	574. GALLONS		5379. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		342. KILOGRAMS	

QUEUE COLLISION IN SECTION 16 T2 =0.226

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2636.	0.	2636.	2636.	0.	2636.	3850.	0.	0.	0.	.68	50.	26.4	D	17.4	2.3
2	2	2070.	400.	0.	3036.	400.	0.	3036.	3830.	20.	0.	0.	.79	50.	30.4	D	15.9	2.3
3	3	2300.	1236.	540.	4272.	1236.	540.	4090.	5712.	388.	* 2187.	182.	.72	19.	70.1	F	11.6	4.7
4	3	1020.	0.	0.	3732.	0.	0.	3550.	6100.	0.	** 1020.	182.	.58	10.	120.3	F	12.3	7.0
5	3	710.	72.	0.	3804.	72.	0.	3622.	6100.	0.	** 710.	182.	.59	10.	118.3	F	10.9	6.2
6	3	3820.	168.	1144.	3972.	168.	1144.	3790.	6138.	12.	** 3820.	182.	.62	11.	115.1	F	11.5	6.7
7	2	1220.	0.	0.	2828.	0.	0.	2646.	4400.	0.	** 1220.	182.	.60	10.	126.7	F	12.0	6.2
8	2	4810.	380.	732.	3208.	380.	732.	3026.	4600.	0.	** 4810.	182.	.66	12.	121.8	F	14.5	5.8
9	2	1370.	0.	0.	2476.	0.	0.	2294.	4000.	0.	** 1370.	182.	.57	10.	119.7	F	13.9	6.5
10	2	660.	240.	0.	2716.	240.	0.	2534.	4380.	20.	** 660.	182.	.58	10.	130.2	F	14.1	6.4
11	3	790.	1036.	668.	3752.	1036.	668.	3570.	5592.	508.	** 790.	182.	.64	12.	101.7	F	18.6	5.9
12	2	1460.	0.	0.	3084.	0.	0.	2902.	4100.	0.	** 1460.	182.	.71	14.	100.2	F	15.9	5.4
13	2	1400.	636.	0.	3720.	636.	0.	3538.	3970.	0.	** 1400.	182.	.89	26.	67.3	F	13.7	3.3
14	2	2600.	0.	372.	3720.	0.	372.	3538.	3970.	0.	** 2600.	182.	.89	26.	67.3	F	20.5	3.3
15	2	2010.	0.	0.	3348.	0.	0.	2985.	3900.	0.	** 2010.	363.	.77	20.	74.7	F	12.9	4.2
16	2	6120.	684.	464.	4032.	684.	443.	3669.	3850.	0.	** 6120.	181.	.95	39.	46.6	F	19.7	2.4
17	2	1240.	0.	0.	3568.	0.	0.	3226.	4300.	0.	** 1240.	181.	.75	17.	97.6	F	14.3	4.9
18	2	930.	540.	0.	4108.	540.	0.	3766.	4100.	0.	** 930.	181.	.92	29.	64.9	F	21.3	3.0
19	2	5330.	184.	540.	4292.	184.	497.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3752.	0.	0.	3453.	3800.	0.	0.	0.	.91	57.	30.3	D	22.5	2.5
21	2	1660.	472.	648.	4224.	472.	602.	3925.	4060.	240.	0.	0.	.97	54.	36.5	E	23.4	2.0
22	2	2270.	0.	0.	3576.	0.	0.	3323.	4400.	0.	0.	0.	.76	62.	27.0	D	20.8	4.2
23	2	3040.	124.	356.	3700.	124.	332.	3447.	4100.	0.	0.	0.	.84	60.	28.7	D	21.6	3.2
24	2	2190.	0.	0.	3344.	0.	0.	3115.	4200.	0.	0.	0.	.74	64.	24.2	C	19.5	5.7
25	3	2400.	76.	3420.	3420.	76.	3191.	3191.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 24.		61.6	16.8	3.9

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 11 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	399. VEH-HRS	471. PASS-HRS	3144. VEH-HRS	3710. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	399. VEH-HRS	471. PASS-HRS	3144. VEH-HRS	3710. PASS-HRS
TOTAL TRAV DISTANCE =	9637. VEH-MI.	11372. PASS-MI.	109252. VEH-MI.	128917. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		35. MPH.	
AVERAGE DENSITY =	62. VPMPL		46. VPMPL	
TOTAL FUEL =	574. GALLONS		5953. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		380. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2892.	0.	2892.	2892.	0.	2892.	3850.	0.	0.	0.	.75	50.	28.9	D	17.4	2.3
2	2	2070.	320.	0.	3212.	320.	0.	3063.	3833.	17.	* 1850.	149.	.80	31.	49.4	F	14.0	3.3
3	3	2300.	1072.	552.	4284.	1072.	552.	4135.	5710.	390.	** 2300.	149.	.72	15.	90.3	F	10.8	5.7
4	3	1020.	0.	0.	3732.	0.	0.	3583.	6100.	0.	** 1020.	149.	.59	10.	119.4	F	12.5	6.9
5	3	710.	72.	0.	3804.	72.	0.	3655.	6100.	0.	** 710.	149.	.60	10.	117.4	F	11.0	6.2
6	3	3820.	168.	1204.	3972.	168.	1204.	3823.	6133.	17.	** 3820.	149.	.62	11.	114.0	F	11.5	6.6
7	2	1220.	0.	0.	2768.	0.	0.	2619.	4400.	0.	** 1220.	149.	.60	10.	127.8	F	11.9	6.2
8	2	4810.	472.	752.	3240.	472.	752.	3091.	4600.	0.	** 4810.	149.	.67	13.	119.1	F	14.9	5.7
9	2	1370.	0.	0.	2488.	0.	0.	2339.	4000.	0.	** 1370.	149.	.58	10.	117.9	F	14.5	6.3
10	2	660.	200.	0.	2688.	200.	0.	2539.	4382.	18.	** 660.	149.	.58	10.	130.0	F	14.2	6.4
11	3	790.	1052.	720.	3740.	1052.	720.	3591.	5562.	538.	** 790.	149.	.65	12.	100.0	F	18.9	5.9
12	2	1460.	0.	0.	3020.	0.	0.	2871.	4100.	0.	** 1460.	149.	.70	14.	101.5	F	15.7	5.4
13	2	1400.	632.	0.	3652.	632.	0.	3503.	3970.	0.	** 1400.	149.	.88	25.	68.7	F	13.6	3.4
14	2	2600.	0.	436.	3652.	0.	436.	3503.	3970.	0.	** 2600.	149.	.88	25.	68.7	F	20.3	3.4
15	2	2010.	0.	0.	3216.	0.	0.	3067.	3900.	0.	** 2010.	149.	.79	19.	82.8	F	12.6	4.5
16	2	6120.	656.	524.	3872.	656.	521.	3723.	3850.	0.	** 6120.	127.	.97	35.	53.3	F	18.7	2.5
17	2	1240.	0.	0.	3348.	0.	0.	3202.	4300.	0.	** 1240.	127.	.74	16.	98.6	F	14.3	5.0
18	2	930.	560.	0.	3908.	560.	0.	3762.	4100.	0.	** 930.	127.	.92	29.	65.1	F	21.2	3.0
19	2	5330.	188.	580.	4096.	188.	559.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3516.	0.	0.	3391.	3800.	0.	0.	0.	.89	58.	29.4	D	22.3	2.6
21	2	1660.	504.	740.	4020.	504.	717.	3895.	4012.	288.	0.	0.	.97	53.	36.4	E	23.5	2.0
22	2	2270.	0.	0.	3280.	0.	0.	3178.	4400.	0.	0.	0.	.72	62.	25.7	C	20.6	4.3
23	2	3040.	156.	340.	3436.	156.	330.	3334.	4100.	0.	0.	0.	.81	61.	27.4	D	21.2	3.6
24	2	2190.	0.	0.	3096.	0.	0.	3004.	4200.	0.	0.	0.	.72	65.	23.2	C	19.3	5.9
25	3	2400.	120.	3216.	3216.	120.	3124.	3124.	6150.	0.	0.	0.	.51	65.	16.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 23.	63.8		16.5	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	412. VEH-HRS	486. PASS-HRS	3556. VEH-HRS	4196. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	412. VEH-HRS	486. PASS-HRS	3556. VEH-HRS	4196. PASS-HRS
TOTAL TRAV DISTANCE =	9662. VEH-MI.	11401. PASS-MI.	118913. VEH-MI.	140318. PASS-MI.
AVERAGE SYSTEM SPEED =	23. MPH.		33. MPH.	
AVERAGE DENSITY =	64. VPMPL		47. VPMPL	
TOTAL FUEL =	584. GALLONS		6537. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		419. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1968.	0.	1968.	1968.	0.	1968.	3850.	0.	0.	0.	.51	50.	19.7	C	17.4	2.3
2	2	2070.	468.	0.	2436.	468.	0.	2436.	3839.	11.	0.	0.	.63	28.	43.1	E	13.9	3.4
3	3	2300.	1256.	468.	3692.	1256.	468.	3986.	5793.	307.	* 1709.	-294.	.69	14.	94.5	F	10.4	5.9
4	3	1020.	0.	0.	3224.	0.	0.	3518.	6100.	0.	** 1020.	-294.	.58	10.	121.1	F	12.1	7.1
5	3	710.	80.	0.	3304.	80.	0.	3598.	6100.	0.	** 710.	-294.	.59	10.	119.0	F	10.9	6.3
6	3	3820.	180.	1192.	3484.	180.	1192.	3778.	6132.	18.	** 3820.	-294.	.62	11.	115.2	F	11.5	6.7
7	2	1220.	0.	0.	2292.	0.	0.	2586.	4400.	0.	** 1220.	-294.	.59	10.	129.1	F	11.8	6.3
8	2	4810.	392.	732.	2684.	392.	732.	2978.	4600.	0.	** 4810.	-294.	.65	12.	123.8	F	14.3	5.9
9	2	1370.	0.	0.	1952.	0.	0.	2246.	4000.	0.	** 1370.	-294.	.56	9.	121.7	F	13.3	6.7
10	2	660.	276.	0.	2228.	276.	0.	2522.	4373.	27.	** 660.	-294.	.58	10.	130.3	F	14.0	6.5
11	3	790.	1072.	712.	3300.	1072.	712.	3594.	5587.	513.	** 790.	-294.	.64	12.	100.8	F	18.8	5.9
12	2	1460.	0.	0.	2588.	0.	0.	2882.	4100.	0.	** 1460.	-294.	.70	14.	101.0	F	15.7	5.4
13	2	1400.	680.	0.	3268.	680.	0.	3562.	3970.	0.	** 1400.	-294.	.90	27.	66.3	F	13.8	3.2
14	2	2600.	0.	504.	3268.	0.	504.	3562.	3970.	0.	** 2600.	-294.	.90	27.	66.3	F	20.6	3.2
15	2	2010.	0.	0.	2764.	0.	0.	3058.	3900.	0.	** 2010.	-294.	.78	18.	83.1	F	12.6	4.5
16	2	6120.	660.	520.	3424.	660.	520.	3718.	3850.	0.	** 6120.	-294.	.97	35.	53.5	F	18.7	2.6
17	2	1240.	0.	0.	2904.	0.	0.	3198.	4300.	0.	** 1240.	-294.	.74	16.	98.8	F	14.2	5.0
18	2	930.	544.	0.	3448.	544.	0.	3742.	4100.	0.	** 930.	-294.	.91	28.	65.9	F	21.1	3.1
19	2	5330.	208.	564.	3656.	208.	609.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3092.	0.	0.	3341.	3800.	0.	0.	0.	.88	58.	28.7	D	22.2	2.7
21	2	1660.	536.	740.	3628.	536.	791.	3877.	4000.	300.	0.	0.	.97	54.	36.2	E	23.5	2.0
22	2	2270.	0.	0.	2888.	0.	0.	3086.	4400.	0.	0.	0.	.70	62.	24.9	C	20.6	4.3
23	2	3040.	160.	360.	3048.	160.	383.	3246.	4100.	0.	0.	0.	.79	61.	26.5	D	21.0	3.9
24	2	2190.	0.	0.	2688.	0.	0.	2863.	4200.	0.	0.	0.	.68	65.	22.0	C	19.2	6.1
25	3	2400.	100.	2788.	2788.	100.	2963.	2963.	6150.	0.	0.	0.	.48	65.	15.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 23.	63.1		16.4	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	409. VEH-HRS	482. PASS-HRS	3965. VEH-HRS	4678. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	409. VEH-HRS	482. PASS-HRS	3965. VEH-HRS	4678. PASS-HRS
TOTAL TRAV DISTANCE =	9204. VEH-MI.	10861. PASS-MI.	128117. VEH-MI.	151179. PASS-MI.
AVERAGE SYSTEM SPEED =	23. MPH.		32. MPH.	
AVERAGE DENSITY =	63. VPMPL		48. VPMPL	
TOTAL FUEL =	561. GALLONS		7098. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		458. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2436.	0.	2436.	2436.	0.	2436.	3850.	0.	0.	0.	.63	50.	24.4	C	17.4	2.3
2	2	2070.	316.	0.	2752.	316.	0.	2752.	3839.	11.	0.	0.	.72	50.	27.5	D	15.9	2.3
3	3	2300.	1168.	392.	3920.	1168.	392.	4178.	5838.	262.	* 90.	-258.	.72	26.	53.2	F	12.4	3.8
4	3	1020.	0.	0.	3528.	0.	0.	3786.	6100.	0.	** 1020.	-258.	.62	11.	113.9	F	13.1	6.6
5	3	710.	72.	0.	3600.	72.	0.	3858.	6100.	0.	** 710.	-258.	.63	11.	111.9	F	11.3	6.0
6	3	3820.	172.	1224.	3772.	172.	1224.	4030.	6133.	17.	** 3820.	-258.	.66	12.	108.4	F	12.0	6.3
7	2	1220.	0.	0.	2548.	0.	0.	2806.	4400.	0.	** 1220.	-258.	.64	12.	120.1	F	12.4	5.9
8	2	4810.	300.	768.	2848.	300.	768.	3106.	4600.	0.	** 4810.	-258.	.68	13.	118.5	F	14.9	5.7
9	2	1370.	0.	0.	2080.	0.	0.	2338.	4000.	0.	** 1370.	-258.	.58	10.	117.9	F	14.4	6.3
10	2	660.	352.	0.	2432.	352.	0.	2690.	4367.	33.	** 660.	-258.	.62	11.	123.1	F	15.4	6.1
11	3	790.	1024.	712.	3456.	1024.	712.	3714.	5561.	539.	** 790.	-258.	.67	13.	96.6	F	19.9	5.7
12	2	1460.	0.	0.	2744.	0.	0.	3002.	4100.	0.	** 1460.	-258.	.73	16.	96.1	F	16.5	5.1
13	2	1400.	632.	0.	3376.	632.	0.	3634.	3970.	0.	** 1400.	-258.	.92	29.	63.4	F	14.2	3.0
14	2	2600.	0.	520.	3376.	0.	520.	3634.	3970.	0.	** 2600.	-258.	.92	29.	63.4	F	21.2	3.0
15	2	2010.	0.	0.	2856.	0.	0.	3114.	3900.	0.	** 2010.	-258.	.80	19.	80.9	F	12.8	4.3
16	2	6120.	628.	528.	3484.	628.	528.	3742.	3850.	0.	** 6120.	-258.	.97	36.	52.5	F	18.7	2.5
17	2	1240.	0.	0.	2956.	0.	0.	3214.	4300.	0.	** 1240.	-258.	.75	16.	98.1	F	14.3	5.0
18	2	930.	532.	0.	3488.	532.	0.	3746.	4100.	0.	** 930.	-258.	.91	29.	65.7	F	21.1	3.1
19	2	5330.	204.	584.	3692.	204.	625.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3108.	0.	0.	3325.	3800.	0.	0.	0.	.88	58.	28.5	D	22.1	2.8
21	2	1660.	484.	740.	3592.	484.	785.	3809.	4050.	250.	0.	0.	.94	55.	34.4	D	23.0	2.1
22	2	2270.	0.	0.	2852.	0.	0.	3024.	4400.	0.	0.	0.	.69	62.	24.4	C	20.6	4.4
23	2	3040.	160.	372.	3012.	160.	393.	3184.	4100.	0.	0.	0.	.78	61.	25.9	C	20.9	4.0
24	2	2190.	0.	0.	2640.	0.	0.	2791.	4200.	0.	0.	0.	.66	65.	21.5	C	19.2	6.1
25	3	2400.	92.	2732.	2732.	92.	2883.	2883.	6150.	0.	0.	0.	.47	65.	14.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 25.	59.4		16.9	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	380. VEH-HRS	448. PASS-HRS	4345. VEH-HRS	5127. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	380. VEH-HRS	448. PASS-HRS	4345. VEH-HRS	5127. PASS-HRS
TOTAL TRAV DISTANCE =	9492. VEH-MI.	11201. PASS-MI.	137610. VEH-MI.	162379. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		32. MPH.	
AVERAGE DENSITY =	59. VPMPL		49. VPMPL	
TOTAL FUEL =	562. GALLONS		7660. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		495. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2224.	0.	2224.	2224.	0.	2224.	3850.	0.	0.	0.	.58	50.	22.2	C	17.4	2.3
2	2	2070.	304.	0.	2528.	304.	0.	2528.	3841.	9.	0.	0.	.66	50.	25.3	C	15.9	2.3
3	3	2300.	1156.	404.	3684.	1156.	404.	3684.	5841.	259.	0.	0.	.63	55.	22.4	C	14.0	2.4
4	3	1020.	0.	0.	3280.	0.	0.	3506.	6100.	0.	* 131.	-226.	.57	14.	81.6	F	14.2	6.2
5	3	710.	72.	0.	3352.	72.	0.	3578.	6100.	0.	** 710.	-226.	.59	10.	119.5	F	10.8	6.3
6	3	3820.	160.	1148.	3512.	160.	1148.	3738.	6145.	5.	** 3820.	-226.	.61	11.	116.7	F	11.4	6.7
7	2	1220.	0.	0.	2364.	0.	0.	2590.	4400.	0.	** 1220.	-226.	.59	10.	128.9	F	11.8	6.3
8	2	4810.	384.	732.	2748.	384.	732.	2974.	4600.	0.	** 4810.	-226.	.65	12.	123.9	F	14.3	5.9
9	2	1370.	0.	0.	2016.	0.	0.	2242.	4000.	0.	** 1370.	-226.	.56	9.	121.8	F	13.2	6.7
10	2	660.	384.	0.	2400.	384.	0.	2626.	4365.	35.	** 660.	-226.	.60	10.	125.6	F	15.0	6.2
11	3	790.	976.	680.	3376.	976.	680.	3602.	5575.	525.	** 790.	-226.	.65	12.	100.2	F	19.0	5.9
12	2	1460.	0.	0.	2696.	0.	0.	2922.	4100.	0.	** 1460.	-226.	.71	15.	99.4	F	16.1	5.3
13	2	1400.	648.	0.	3344.	648.	0.	3570.	3970.	0.	** 1400.	-226.	.90	27.	66.0	F	13.9	3.2
14	2	2600.	0.	492.	3344.	0.	492.	3570.	3970.	0.	** 2600.	-226.	.90	27.	66.0	F	20.7	3.2
15	2	2010.	0.	0.	2852.	0.	0.	3078.	3900.	0.	** 2010.	-226.	.79	19.	82.3	F	12.7	4.5
16	2	6120.	644.	488.	3496.	644.	488.	3722.	3850.	0.	** 6120.	-226.	.97	35.	53.4	F	18.7	2.5
17	2	1240.	0.	0.	3008.	0.	0.	3234.	4300.	0.	** 1240.	-226.	.75	17.	97.3	F	14.3	4.9
18	2	930.	536.	0.	3544.	536.	0.	3770.	4100.	0.	** 930.	-226.	.92	29.	64.7	F	21.3	3.0
19	2	5330.	180.	568.	3724.	180.	602.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3156.	0.	0.	3348.	3800.	0.	0.	0.	.88	58.	28.8	D	22.2	2.7
21	2	1660.	416.	684.	3572.	416.	721.	3764.	4132.	168.	0.	0.	.91	57.	33.1	D	22.6	2.4
22	2	2270.	0.	0.	2888.	0.	0.	3043.	4400.	0.	0.	0.	.69	62.	24.5	C	20.6	4.4
23	2	3040.	196.	372.	3084.	196.	391.	3239.	4100.	0.	0.	0.	.79	61.	26.5	D	21.0	3.9
24	2	2190.	0.	0.	2712.	0.	0.	2848.	4200.	0.	0.	0.	.68	65.	21.9	C	19.2	6.1
25	3	2400.	112.	2824.	2824.	112.	2960.	2960.	6150.	0.	0.	0.	.48	65.	15.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 25.	59.2		16.9	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	376. VEH-HRS	444. PASS-HRS	4721. VEH-HRS	5570. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	376. VEH-HRS	444. PASS-HRS	4721. VEH-HRS	5570. PASS-HRS
TOTAL TRAV DISTANCE =	9235. VEH-MI.	10897. PASS-MI.	146844. VEH-MI.	173276. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		31. MPH.	
AVERAGE DENSITY =	59. VPMPL		50. VPMPL	
TOTAL FUEL =	548. GALLONS		8207. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		531. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2880.	0.	2880.	2880.	0.	2880.	3850.	0.	0.	0.	.75	50.	28.8	D	17.4	2.3
2	2	2070.	236.	0.	3116.	236.	0.	3116.	3841.	9.	0.	0.	.81	50.	31.2	D	15.9	2.3
3	3	2300.	1064.	380.	4180.	1064.	380.	4180.	5849.	251.	0.	0.	.71	55.	25.3	C	14.0	2.4
4	3	1020.	0.	0.	3800.	0.	0.	3800.	6100.	0.	0.	0.	.62	61.	20.8	C	19.9	4.8
5	3	710.	68.	0.	3868.	68.	0.	3868.	6100.	0.	0.	0.	.63	31.	41.1	E	14.8	4.7
6	3	3820.	144.	1208.	4012.	144.	1208.	4358.	6135.	15.	* 2749.	-346.	.71	15.	94.1	F	13.2	5.8
7	2	1220.	0.	0.	2804.	0.	0.	3150.	4400.	0.	** 1220.	-346.	.72	15.	106.1	F	13.9	5.3
8	2	4810.	276.	764.	3080.	276.	764.	3426.	4600.	0.	** 4810.	-346.	.74	16.	105.5	F	16.8	5.0
9	2	1370.	0.	0.	2316.	0.	0.	2662.	4000.	0.	** 1370.	-346.	.67	13.	104.7	F	17.0	5.7
10	2	660.	312.	0.	2628.	312.	0.	2974.	4371.	29.	** 660.	-346.	.68	13.	111.7	F	17.6	5.6
11	3	790.	996.	760.	3624.	996.	760.	3970.	5513.	587.	** 790.	-346.	.72	15.	88.0	F	23.0	5.3
12	2	1460.	0.	0.	2864.	0.	0.	3210.	4100.	0.	** 1460.	-346.	.78	18.	87.6	F	17.7	4.5
13	2	1400.	636.	0.	3500.	636.	0.	3846.	3970.	0.	** 1400.	-346.	.97	35.	54.7	F	14.8	2.5
14	2	2600.	0.	564.	3500.	0.	564.	3846.	3970.	0.	** 2600.	-346.	.97	35.	54.7	F	22.6	2.5
15	2	2010.	0.	0.	2936.	0.	0.	3282.	3900.	0.	** 2010.	-346.	.84	22.	74.0	F	13.4	3.9
16	2	6120.	556.	584.	3492.	556.	584.	3838.	3850.	0.	** 6120.	-346.	.99	39.	48.6	F	18.7	2.3
17	2	1240.	0.	0.	2908.	0.	0.	3254.	4300.	0.	** 1240.	-346.	.76	17.	96.5	F	14.4	4.9
18	2	930.	516.	0.	3424.	516.	0.	3770.	4100.	0.	** 930.	-346.	.92	29.	64.7	F	21.3	3.0
19	2	5330.	180.	616.	3604.	180.	675.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	2988.	0.	0.	3275.	3800.	0.	0.	0.	.86	59.	27.9	D	22.0	2.9
21	2	1660.	440.	748.	3428.	440.	811.	3715.	4094.	206.	0.	0.	.91	57.	32.6	D	22.5	2.5
22	2	2270.	0.	0.	2680.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	20.6	4.4
23	2	3040.	148.	388.	2828.	148.	419.	3052.	4100.	0.	0.	0.	.74	62.	24.6	C	20.6	4.4
24	2	2190.	0.	0.	2440.	0.	0.	2634.	4200.	0.	0.	0.	.63	65.	20.3	C	19.2	6.1
25	3	2400.	92.	2532.	2532.	92.	2726.	2726.	6150.	0.	0.	0.	.44	65.	14.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 30.	52.1	17.8	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	325. VEH-HRS	384. PASS-HRS	5046. VEH-HRS	5954. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	325. VEH-HRS	384. PASS-HRS	5046. VEH-HRS	5954. PASS-HRS
TOTAL TRAV DISTANCE =	9890. VEH-MI.	11670. PASS-MI.	156734. VEH-MI.	184946. PASS-MI.
AVERAGE SYSTEM SPEED =	30. MPH.		31. MPH.	
AVERAGE DENSITY =	52. VPMPL		50. VPMPL	
TOTAL FUEL =	557. GALLONS		8764. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		567. KILOGRAMS	

QUEUE SPLIT SECTION 16

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2368.	0.	2368.	2368.	0.	2368.	3850.	0.	0.	0.	.62	50.	23.7	C	17.4	2.3
2	2	2070.	272.	0.	2640.	272.	0.	2640.	3841.	9.	0.	0.	.69	50.	26.4	D	15.9	2.3
3	3	2300.	1296.	328.	3936.	1296.	328.	3936.	5882.	218.	0.	0.	.67	55.	23.9	C	14.0	2.4
4	3	1020.	0.	0.	3608.	0.	0.	3608.	6100.	0.	0.	0.	.59	62.	19.4	C	19.9	4.8
5	3	710.	100.	0.	3708.	100.	0.	3708.	6100.	0.	0.	0.	.61	62.	19.9	C	16.1	4.4
6	3	3820.	172.	1136.	3880.	172.	1136.	4350.	6144.	6.	* 137.	-470.	.71	27.	54.4	F	15.1	5.2
7	2	1220.	0.	0.	2744.	0.	0.	3214.	4400.	0.	** 1220.	-470.	.73	16.	103.4	F	14.1	5.1
8	2	4810.	332.	680.	3076.	332.	680.	3546.	4600.	0.	** 4810.	-470.	.77	18.	100.6	F	17.4	4.7
9	2	1370.	0.	0.	2396.	0.	0.	2866.	4000.	0.	** 1370.	-470.	.72	15.	96.3	F	19.4	5.3
10	2	660.	204.	0.	2600.	204.	0.	3070.	4380.	20.	** 660.	-470.	.70	14.	108.3	F	18.6	5.4
11	3	790.	1016.	764.	3616.	1016.	764.	4086.	5524.	576.	** 790.	-470.	.74	16.	85.2	F	24.0	5.1
12	2	1460.	0.	0.	2852.	0.	0.	3322.	4100.	0.	** 1460.	-470.	.81	20.	83.0	F	18.5	4.2
13	2	1400.	608.	0.	3460.	608.	0.	3930.	3970.	0.	** 1400.	-470.	.99	38.	51.3	F	14.8	2.3
14	2	2600.	0.	608.	3460.	0.	608.	3930.	3970.	0.	** 2600.	-470.	.99	38.	51.3	F	23.0	2.3
15	2	2010.	0.	0.	2852.	0.	0.	3322.	3900.	0.	** 2010.	-470.	.85	23.	72.4	F	13.6	3.7
16	2	6120.	528.	632.	3380.	528.	632.	3850.	3850.	0.	** 6120.	-470.	1.00	40.	48.1	F	18.7	2.2
17	2	1240.	0.	0.	2748.	0.	0.	3322.	4300.	0.	* 214.	-104.	.77	25.	66.3	F	15.9	4.5
18	2	930.	460.	0.	3208.	460.	0.	3782.	4100.	0.	** 930.	-104.	.92	29.	64.2	F	21.4	3.0
19	2	5330.	168.	576.	3376.	168.	674.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	2800.	0.	0.	3276.	3800.	0.	0.	0.	.86	59.	27.9	D	22.0	2.9
21	2	1660.	452.	720.	3252.	452.	825.	3728.	4106.	194.	0.	0.	.91	57.	32.7	D	22.5	2.5
22	2	2270.	0.	0.	2532.	0.	0.	2903.	4400.	0.	0.	0.	.66	62.	23.4	C	20.6	4.4
23	2	3040.	132.	360.	2664.	132.	410.	3035.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
24	2	2190.	0.	0.	2304.	0.	0.	2625.	4200.	0.	0.	0.	.62	65.	20.2	C	19.2	6.1
25	3	2400.	76.	2380.	2380.	76.	2701.	2701.	6150.	0.	0.	0.	.44	65.	13.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 34.	46.8		18.3	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	285. VEH-HRS	336. PASS-HRS	5331. VEH-HRS	6291. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	285. VEH-HRS	336. PASS-HRS	5331. VEH-HRS	6291. PASS-HRS
TOTAL TRAV DISTANCE =	9676. VEH-MI.	11418. PASS-MI.	166410. VEH-MI.	196364. PASS-MI.
AVERAGE SYSTEM SPEED =	34. MPH.		31. MPH.	
AVERAGE DENSITY =	47. VPMPL		50. VPMPL	
TOTAL FUEL =	529. GALLONS		9293. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		602. KILOGRAMS	

QUEUE CLEAR SECTION 18 T2 =0.225

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2188.	0.	2188.	2188.	0.	2188.	3850.	0.	0.	0.	.57	50.	21.9	C	17.4	2.3
2	2	2070.	336.	0.	2524.	336.	0.	2524.	3841.	9.	0.	0.	.66	50.	25.2	C	15.9	2.3
3	3	2300.	1376.	316.	3900.	1376.	316.	3900.	5897.	203.	0.	0.	.66	55.	23.6	C	14.0	2.4
4	3	1020.	0.	0.	3584.	0.	0.	3584.	6100.	0.	0.	0.	.59	62.	19.3	C	19.9	4.8
5	3	710.	144.	0.	3728.	144.	0.	3728.	6100.	0.	0.	0.	.61	62.	20.0	C	16.1	4.4
6	3	3820.	144.	1040.	3872.	144.	1040.	3872.	6150.	0.	0.	0.	.63	62.	20.9	C	17.1	4.8
7	2	1220.	0.	0.	2832.	0.	0.	2832.	4400.	0.	0.	0.	.64	35.	40.8	E	16.9	4.6
8	2	4810.	316.	624.	3148.	316.	624.	3554.	4600.	0.	* 2752.	-406.	.77	19.	92.3	F	17.7	4.6
9	2	1370.	0.	0.	2524.	0.	0.	2930.	4000.	0.	** 1370.	-406.	.73	16.	93.7	F	20.1	5.1
10	2	660.	204.	0.	2728.	204.	0.	3134.	4382.	18.	** 660.	-406.	.72	15.	105.7	F	19.3	5.3
11	3	790.	940.	732.	3668.	940.	732.	4074.	5534.	566.	** 790.	-406.	.74	16.	85.9	F	23.8	5.1
12	2	1460.	0.	0.	2936.	0.	0.	3342.	4100.	0.	** 1460.	-406.	.82	20.	82.2	F	18.6	4.1
13	2	1400.	516.	0.	3452.	516.	0.	3858.	3970.	0.	** 1400.	-406.	.97	36.	54.2	F	14.8	2.5
14	2	2600.	0.	544.	3452.	0.	544.	3858.	3970.	0.	** 2600.	-406.	.97	36.	54.2	F	22.7	2.5
15	2	2010.	0.	0.	2908.	0.	0.	3314.	3900.	0.	** 2010.	-406.	.85	23.	72.7	F	13.5	3.8
16	2	6120.	536.	584.	3444.	536.	584.	3850.	3850.	0.	** 6120.	-406.	1.00	40.	48.1	F	18.7	2.2
17	2	1240.	0.	0.	2860.	0.	0.	3266.	4300.	0.	0.	0.	.76	58.	28.1	D	18.2	4.1
18	2	930.	424.	0.	3284.	424.	0.	3766.	4100.	0.	0.	-76.	.92	36.	51.9	F	21.6	2.9
19	2	5330.	152.	560.	3436.	152.	639.	3918.	3950.	0.	0.	0.	.99	52.	37.5	E	23.8	2.0
20	2	2830.	0.	0.	2876.	0.	0.	3279.	3800.	0.	0.	0.	.86	59.	27.9	D	22.0	2.9
21	2	1660.	400.	660.	3276.	400.	742.	3679.	4156.	144.	0.	0.	.89	58.	31.7	D	22.2	2.7
22	2	2270.	0.	0.	2616.	0.	0.	2937.	4400.	0.	0.	0.	.67	62.	23.7	C	20.6	4.4
23	2	3040.	168.	384.	2784.	168.	428.	3105.	4100.	0.	0.	0.	.76	62.	25.2	C	20.8	4.1
24	2	2190.	0.	0.	2400.	0.	0.	2678.	4200.	0.	0.	0.	.64	65.	20.6	C	19.2	6.1
25	3	2400.	76.	2476.	2476.	76.	2754.	2754.	6150.	0.	0.	0.	.45	65.	14.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 38.		41.6	18.7	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	251. VEH-HRS	296. PASS-HRS	5582. VEH-HRS	6587. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	251. VEH-HRS	296. PASS-HRS	5582. VEH-HRS	6587. PASS-HRS
TOTAL TRAV DISTANCE =	9551. VEH-MI.	11270. PASS-MI.	175961. VEH-MI.	207634. PASS-MI.
AVERAGE SYSTEM SPEED =	38. MPH.		32. MPH.	
AVERAGE DENSITY =	42. VPMPL		49. VPMPL	
TOTAL FUEL =	511. GALLONS		9804. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		635. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2172.	0.	2172.	2172.	0.	2172.	3850.	0.	0.	0.	.56	50.	21.7	C	17.4	2.3
2	2	2070.	344.	0.	2516.	344.	0.	2516.	3841.	9.	0.	0.	.66	50.	25.2	C	15.9	2.3
3	3	2300.	1428.	372.	3944.	1428.	372.	3944.	5853.	247.	0.	0.	.67	55.	23.9	C	14.0	2.4
4	3	1020.	0.	0.	3572.	0.	0.	3572.	6100.	0.	0.	0.	.59	62.	19.2	C	19.9	4.8
5	3	710.	160.	0.	3732.	160.	0.	3732.	6100.	0.	0.	0.	.61	62.	20.1	C	16.1	4.4
6	3	3820.	248.	724.	3980.	248.	724.	3980.	6150.	0.	0.	0.	.65	62.	21.4	C	17.1	4.8
7	2	1220.	0.	0.	3256.	0.	0.	3256.	4400.	0.	0.	0.	.74	62.	26.4	D	18.3	4.2
8	2	4810.	320.	660.	3576.	320.	660.	3576.	4600.	0.	0.	0.	.78	45.	39.4	E	20.6	3.9
9	2	1370.	0.	0.	2916.	0.	0.	3258.	4000.	0.	* 120.	-342.	.81	22.	73.3	F	24.2	4.2
10	2	660.	252.	0.	3168.	252.	0.	3510.	4378.	22.	** 660.	-342.	.80	19.	90.2	F	23.6	4.3
11	3	790.	780.	768.	3948.	780.	768.	4290.	5458.	642.	** 790.	-342.	.79	19.	77.3	F	26.9	4.5
12	2	1460.	0.	0.	3180.	0.	0.	3522.	4100.	0.	** 1460.	-342.	.86	24.	74.9	F	19.6	3.6
13	2	1400.	416.	0.	3596.	416.	0.	3938.	3970.	0.	** 1400.	-342.	.99	39.	50.9	F	14.8	2.3
14	2	2600.	0.	500.	3596.	0.	500.	3938.	3970.	0.	** 2600.	-342.	.99	39.	50.9	F	23.1	2.3
15	2	2010.	0.	0.	3096.	0.	0.	3438.	3900.	0.	** 2010.	-342.	.88	25.	67.6	F	14.1	3.4
16	2	6120.	412.	648.	3508.	412.	648.	3850.	3850.	0.	** 6120.	-342.	1.00	40.	48.1	F	18.7	2.2
17	2	1240.	0.	0.	2860.	0.	0.	3202.	4300.	0.	0.	0.	.74	62.	25.9	C	18.3	4.2
18	2	930.	336.	0.	3196.	336.	0.	3538.	4100.	0.	0.	0.	.86	59.	29.8	D	21.8	3.0
19	2	5330.	132.	584.	3328.	132.	644.	3670.	3950.	0.	0.	0.	.93	56.	32.6	D	22.7	2.3
20	2	2830.	0.	0.	2744.	0.	0.	3026.	3800.	0.	0.	0.	.80	61.	24.8	C	21.1	3.8
21	2	1660.	324.	736.	3068.	324.	804.	3350.	4188.	112.	0.	0.	.80	60.	27.8	D	21.5	3.3
22	2	2270.	0.	0.	2332.	0.	0.	2546.	4400.	0.	0.	0.	.58	62.	20.5	C	20.6	4.4
23	2	3040.	140.	432.	2472.	140.	469.	2686.	4100.	0.	0.	0.	.66	62.	21.7	C	20.6	4.4
24	2	2190.	0.	0.	2040.	0.	0.	2217.	4200.	0.	0.	0.	.53	65.	17.1	B	19.2	6.1
25	3	2400.	72.	2112.	2112.	72.	2289.	2289.	6150.	0.	0.	0.	.37	65.	11.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 45.	34.2		19.0	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	209. VEH-HRS	246. PASS-HRS	5791. VEH-HRS	6833. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	209. VEH-HRS	246. PASS-HRS	5791. VEH-HRS	6833. PASS-HRS
TOTAL TRAV DISTANCE =	9359. VEH-MI.	11044. PASS-MI.	185320. VEH-MI.	218678. PASS-MI.
AVERAGE SYSTEM SPEED =	45. MPH.		32. MPH.	
AVERAGE DENSITY =	34. VPMPL		49. VPMPL	
TOTAL FUEL =	493. GALLONS		10298. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		667. KILOGRAMS	

```
QUEUE SPLIT SECTION 14
QUEUE CLEAR SECTION  14 FT=    32
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1596.	0.	1596.	1596.	0.	1596.	3850.	0.	0.	0.	.41	50.	16.0	B	17.4	2.3
2	2	2070.	328.	0.	1924.	328.	0.	1924.	3849.	1.	0.	0.	.50	50.	19.2	C	15.9	2.3
3	3	2300.	1528.	352.	3452.	1528.	352.	3452.	5902.	198.	0.	0.	.58	55.	20.9	C	14.0	2.4
4	3	1020.	0.	0.	3100.	0.	0.	3100.	6100.	0.	0.	0.	.51	62.	16.7	B	19.9	4.8
5	3	710.	228.	0.	3328.	228.	0.	3328.	6100.	0.	0.	0.	.55	62.	17.9	B	16.1	4.4
6	3	3820.	296.	796.	3624.	296.	796.	3624.	6150.	0.	0.	0.	.59	62.	19.5	C	17.1	4.8
7	2	1220.	0.	0.	2828.	0.	0.	2828.	4400.	0.	0.	0.	.64	62.	22.8	C	18.2	4.4
8	2	4810.	420.	604.	3248.	420.	604.	3248.	4600.	0.	0.	0.	.71	62.	26.2	D	20.6	4.3
9	2	1370.	0.	0.	2644.	0.	0.	2644.	4000.	0.	0.	0.	.66	62.	21.4	C	23.6	4.4
10	2	660.	228.	0.	2872.	228.	0.	2872.	4380.	20.	0.	0.	.66	48.	29.8	D	23.4	4.4
11	3	790.	736.	684.	3608.	736.	684.	3608.	5532.	568.	0.	0.	.65	33.	37.0	E	27.8	4.6
12	2	1460.	0.	0.	2924.	0.	0.	2924.	4100.	0.	0.	0.	.71	30.	48.8	F	19.6	4.1
13	2	1400.	400.	0.	3324.	400.	0.	3324.	3970.	0.	0.	0.	.84	38.	43.2	E	14.6	2.8
14	2	2600.	0.	444.	3324.	0.	444.	3819.	3970.	0.	0.	-495.	.96	36.	53.5	F	22.4	2.7
15	2	2010.	0.	0.	2880.	0.	0.	3375.	3900.	0.	0.	0.	.87	43.	39.6	E	15.2	3.1
16	2	6120.	316.	584.	3196.	316.	675.	3850.	3850.	0. *	3689.	-159.	1.00	41.	47.3	F	18.8	2.2
17	2	1240.	0.	0.	2612.	0.	0.	3175.	4300.	0.	0.	0.	.74	62.	25.7	C	18.2	4.2
18	2	930.	372.	0.	2984.	372.	0.	3547.	4100.	0.	0.	0.	.87	59.	29.9	D	21.8	3.0
19	2	5330.	108.	472.	3092.	108.	558.	3655.	3950.	0.	0.	0.	.93	57.	32.3	D	22.7	2.4
20	2	2830.	0.	0.	2620.	0.	0.	3097.	3800.	0.	0.	0.	.82	61.	25.4	C	21.1	3.8
21	2	1660.	324.	628.	2944.	324.	730.	3421.	4236.	64.	0.	0.	.81	60.	28.5	D	21.6	3.3
22	2	2270.	0.	0.	2316.	0.	0.	2691.	4400.	0.	0.	0.	.61	62.	21.7	C	20.6	4.4
23	2	3040.	96.	352.	2412.	96.	407.	2787.	4100.	0.	0.	0.	.68	62.	22.5	C	20.6	4.4
24	2	2190.	0.	0.	2060.	0.	0.	2380.	4200.	0.	0.	0.	.57	65.	18.3	C	19.2	6.1
25	3	2400.	68.	2128.	2128.	68.	2448.	2448.	6150.	0.	0.	0.	.40	65.	12.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 51.	28.1		19.1	3.5

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 20 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	173. VEH-HRS	204. PASS-HRS	5963. VEH-HRS	7037. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	173. VEH-HRS	204. PASS-HRS	5963. VEH-HRS	7037. PASS-HRS
TOTAL TRAV DISTANCE =	8795. VEH-MI.	10378. PASS-MI.	194115. VEH-MI.	229056. PASS-MI.
AVERAGE SYSTEM SPEED =	51. MPH.		33. MPH.	
AVERAGE DENSITY =	28. VPMPL		48. VPMPL	
TOTAL FUEL =	461. GALLONS		10759. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		698. KILOGRAMS	

QUEUE CLEAR SECTION 16 FT= 1942

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1364.	0.	1364.	1364.	0.	1364.	3850.	0.	0.	0.	.35	50.	13.6	B	17.4	2.3
2	2	2070.	408.	0.	1772.	408.	0.	1772.	3850.	0.	0.	0.	.46	50.	17.7	B	15.9	2.3
3	3	2300.	1360.	352.	3132.	1360.	352.	3132.	5910.	190.	0.	0.	.53	55.	19.0	C	14.0	2.4
4	3	1020.	0.	0.	2780.	0.	0.	2780.	6100.	0.	0.	0.	.46	62.	14.9	B	19.9	4.8
5	3	710.	136.	0.	2916.	136.	0.	2916.	6100.	0.	0.	0.	.48	62.	15.7	B	16.1	4.4
6	3	3820.	288.	676.	3204.	288.	676.	3204.	6150.	0.	0.	0.	.52	62.	17.2	B	17.1	4.8
7	2	1220.	0.	0.	2528.	0.	0.	2528.	4400.	0.	0.	0.	.57	62.	20.4	C	18.2	4.4
8	2	4810.	396.	512.	2924.	396.	512.	2924.	4600.	0.	0.	0.	.64	62.	23.6	C	20.6	4.4
9	2	1370.	0.	0.	2412.	0.	0.	2412.	4000.	0.	0.	0.	.60	62.	19.5	C	23.6	4.4
10	2	660.	176.	0.	2588.	176.	0.	2588.	4384.	16.	0.	0.	.59	62.	20.9	C	23.6	4.4
11	3	790.	732.	692.	3320.	732.	692.	3320.	5540.	560.	0.	0.	.60	62.	17.8	B	30.0	4.4
12	2	1460.	0.	0.	2628.	0.	0.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	20.6	4.4
13	2	1400.	368.	0.	2996.	368.	0.	2996.	3970.	0.	0.	0.	.75	62.	24.2	C	13.6	4.4
14	2	2600.	0.	516.	2996.	0.	516.	2996.	3970.	0.	0.	0.	.75	62.	24.2	C	20.6	4.4
15	2	2010.	0.	0.	2480.	0.	0.	2480.	3900.	0.	0.	0.	.64	62.	20.0	C	14.7	4.4
16	2	6120.	308.	600.	2788.	308.	600.	2953.	3850.	0.	0.	-165.	.77	28.	52.7	F	16.2	4.5
17	2	1240.	0.	0.	2188.	0.	0.	2353.	4300.	0.	0.	0.	.55	62.	19.0	C	18.2	4.4
18	2	930.	420.	0.	2608.	420.	0.	2773.	4100.	0.	0.	0.	.68	62.	22.4	C	20.6	4.4
19	2	5330.	112.	460.	2720.	112.	488.	2885.	3950.	0.	0.	0.	.73	62.	23.3	C	20.6	4.4
20	2	2830.	0.	0.	2260.	0.	0.	2397.	3800.	0.	0.	0.	.63	61.	19.6	C	21.1	3.8
21	2	1660.	368.	664.	2628.	368.	699.	2765.	4217.	83.	0.	0.	.66	61.	22.7	C	21.1	3.8
22	2	2270.	0.	0.	1964.	0.	0.	2066.	4400.	0.	0.	0.	.47	62.	16.7	B	20.6	4.4
23	2	3040.	68.	320.	2032.	68.	336.	2134.	4100.	0.	0.	0.	.52	62.	17.2	B	20.6	4.4
24	2	2190.	0.	0.	1712.	0.	0.	1798.	4200.	0.	0.	0.	.43	65.	13.8	B	19.2	6.1
25	3	2400.	64.	1776.	1776.	64.	1862.	1862.	6150.	0.	0.	0.	.30	65.	9.6	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.77	LOWEST LOS = F		AVG = 53.	22.2		18.4	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	159. PASS-HRS	6098. VEH-HRS	7196. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	159. PASS-HRS	6098. VEH-HRS	7196. PASS-HRS
TOTAL TRAV DISTANCE =	7176. VEH-MI.	8468. PASS-MI.	201291. VEH-MI.	237524. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		33. MPH.	
AVERAGE DENSITY =	22. VPMPL		46. VPMPL	
TOTAL FUEL =	390. GALLONS		11149. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		728. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1184.	0.	1184.	1184.	0.	1184.	3850.	0.	0.	0.	.31	50.	11.8	B	17.4	2.3
2	2	2070.	452.	0.	1636.	452.	0.	1636.	3850.	0.	0.	0.	.42	50.	16.4	B	15.9	2.3
3	3	2300.	1308.	308.	2944.	1308.	308.	2944.	5945.	155.	0.	0.	.50	55.	17.8	B	14.0	2.4
4	3	1020.	0.	0.	2636.	0.	0.	2636.	6100.	0.	0.	0.	.43	62.	14.2	B	19.9	4.8
5	3	710.	80.	0.	2716.	80.	0.	2716.	6100.	0.	0.	0.	.45	62.	14.6	B	16.1	4.4
6	3	3820.	336.	612.	3052.	336.	612.	3052.	6150.	0.	0.	0.	.50	62.	16.4	B	17.1	4.8
7	2	1220.	0.	0.	2440.	0.	0.	2440.	4400.	0.	0.	0.	.55	62.	19.7	C	18.2	4.4
8	2	4810.	416.	600.	2856.	416.	600.	2856.	4600.	0.	0.	0.	.62	62.	23.0	C	20.6	4.4
9	2	1370.	0.	0.	2256.	0.	0.	2256.	4000.	0.	0.	0.	.56	62.	18.2	C	23.6	4.4
10	2	660.	180.	0.	2436.	180.	0.	2436.	4385.	15.	0.	0.	.56	62.	19.6	C	23.6	4.4
11	3	790.	636.	564.	3072.	636.	564.	3072.	5635.	465.	0.	0.	.55	62.	16.5	B	30.0	4.4
12	2	1460.	0.	0.	2508.	0.	0.	2508.	4100.	0.	0.	0.	.61	62.	20.2	C	20.6	4.4
13	2	1400.	312.	0.	2820.	312.	0.	2820.	3970.	0.	0.	0.	.71	62.	22.7	C	13.6	4.4
14	2	2600.	0.	472.	2820.	0.	472.	2820.	3970.	0.	0.	0.	.71	62.	22.7	C	20.6	4.4
15	2	2010.	0.	0.	2348.	0.	0.	2348.	3900.	0.	0.	0.	.60	62.	18.9	C	14.7	4.4
16	2	6120.	352.	588.	2700.	352.	588.	2700.	3850.	0.	0.	0.	.70	62.	21.8	C	18.2	4.4
17	2	1240.	0.	0.	2112.	0.	0.	2112.	4300.	0.	0.	0.	.49	62.	17.0	B	18.2	4.4
18	2	930.	276.	0.	2388.	276.	0.	2388.	4100.	0.	0.	0.	.58	62.	19.3	C	20.6	4.4
19	2	5330.	84.	464.	2472.	84.	464.	2472.	3950.	0.	0.	0.	.63	62.	19.9	C	20.6	4.4
20	2	2830.	0.	0.	2008.	0.	0.	2008.	3800.	0.	0.	0.	.53	61.	16.5	B	21.1	3.8
21	2	1660.	352.	588.	2360.	352.	588.	2360.	4260.	40.	0.	0.	.55	61.	19.3	C	21.1	3.8
22	2	2270.	0.	0.	1772.	0.	0.	1772.	4400.	0.	0.	0.	.40	62.	14.3	B	20.6	4.4
23	2	3040.	84.	344.	1856.	84.	344.	1856.	4100.	0.	0.	0.	.45	62.	15.0	B	20.6	4.4
24	2	2190.	0.	0.	1512.	0.	0.	1512.	4200.	0.	0.	0.	.36	65.	11.6	B	19.2	6.1
25	3	2400.	36.	1548.	1548.	36.	1548.	1548.	6150.	0.	0.	0.	.25	65.	7.9	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.71		LOWEST LOS = C	AVG = 61.	17.5		18.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	108. VEH-HRS	128. PASS-HRS	6206. VEH-HRS	7323. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	108. VEH-HRS	128. PASS-HRS	6206. VEH-HRS	7323. PASS-HRS
TOTAL TRAV DISTANCE =	6545. VEH-MI.	7723. PASS-MI.	207836. VEH-MI.	245246. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		33. MPH.	
AVERAGE DENSITY =	18. VPMPL		45. VPMPL	
TOTAL FUEL =	351. GALLONS		11500. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		756. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1124.	0.	1124.	1124.	0.	1124.	3850.	0.	0.	0.	.29	50.	11.2	B	17.4	2.3
2	2	2070.	448.	0.	1572.	448.	0.	1572.	3850.	0.	0.	0.	.41	50.	15.7	B	15.9	2.3
3	3	2300.	1320.	316.	2892.	1320.	316.	2892.	5945.	155.	0.	0.	.49	55.	17.5	B	14.0	2.4
4	3	1020.	0.	0.	2576.	0.	0.	2576.	6100.	0.	0.	0.	.42	62.	13.8	B	19.9	4.8
5	3	710.	96.	0.	2672.	96.	0.	2672.	6100.	0.	0.	0.	.44	62.	14.4	B	16.1	4.4
6	3	3820.	240.	592.	2912.	240.	592.	2912.	6150.	0.	0.	0.	.47	62.	15.7	B	17.1	4.8
7	2	1220.	0.	0.	2320.	0.	0.	2320.	4400.	0.	0.	0.	.53	62.	18.7	C	18.2	4.4
8	2	4810.	384.	680.	2704.	384.	680.	2704.	4600.	0.	0.	0.	.59	62.	21.8	C	20.6	4.4
9	2	1370.	0.	0.	2024.	0.	0.	2024.	4000.	0.	0.	0.	.51	62.	16.3	B	23.6	4.4
10	2	660.	196.	0.	2220.	196.	0.	2220.	4380.	20.	0.	0.	.51	62.	17.9	B	23.6	4.4
11	3	790.	520.	608.	2740.	520.	608.	2740.	5672.	428.	0.	0.	.48	62.	14.7	B	30.0	4.4
12	2	1460.	0.	0.	2132.	0.	0.	2132.	4100.	0.	0.	0.	.52	62.	17.2	B	20.6	4.4
13	2	1400.	292.	0.	2424.	292.	0.	2424.	3970.	0.	0.	0.	.61	62.	19.5	C	13.6	4.4
14	2	2600.	0.	396.	2424.	0.	396.	2424.	3970.	0.	0.	0.	.61	62.	19.5	C	20.6	4.4
15	2	2010.	0.	0.	2028.	0.	0.	2028.	3900.	0.	0.	0.	.52	62.	16.4	B	14.7	4.4
16	2	6120.	272.	524.	2300.	272.	524.	2300.	3850.	0.	0.	0.	.60	62.	18.5	C	18.2	4.4
17	2	1240.	0.	0.	1776.	0.	0.	1776.	4300.	0.	0.	0.	.41	62.	14.3	B	18.2	4.4
18	2	930.	172.	0.	1948.	172.	0.	1948.	4100.	0.	0.	0.	.48	62.	15.7	B	20.6	4.4
19	2	5330.	64.	396.	2012.	64.	396.	2012.	3950.	0.	0.	0.	.51	62.	16.2	B	20.6	4.4
20	2	2830.	0.	0.	1616.	0.	0.	1616.	3800.	0.	0.	0.	.43	61.	13.2	B	21.1	3.8
21	2	1660.	272.	444.	1888.	272.	444.	1888.	4300.	0.	0.	0.	.44	61.	15.5	B	21.1	3.8
22	2	2270.	0.	0.	1444.	0.	0.	1444.	4400.	0.	0.	0.	.33	62.	11.6	B	20.6	4.4
23	2	3040.	76.	300.	1520.	76.	300.	1520.	4100.	0.	0.	0.	.37	62.	12.3	B	20.6	4.4
24	2	2190.	0.	0.	1220.	0.	0.	1220.	4200.	0.	0.	0.	.29	65.	9.4	A	19.2	6.1
25	3	2400.	32.	1252.	1252.	32.	1252.	1252.	6150.	0.	0.	0.	.20	65.	6.4	A	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 0.61 LOWEST LOS = C AVG = 60. 15.4 18.5 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	95. VEH-HRS	113. PASS-HRS	6302. VEH-HRS	7436. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	95. VEH-HRS	113. PASS-HRS	6302. VEH-HRS	7436. PASS-HRS
TOTAL TRAV DISTANCE =	5770. VEH-MI.	6808. PASS-MI.	213606. VEH-MI.	252055. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		34. MPH.	
AVERAGE DENSITY =	15. VPMPL		44. VPMPL	
TOTAL FUEL =	311. GALLONS		11811. GALLONS	
TOTAL EMISSIONS =	24. KILOGRAMS		780. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME (VEH-HR)	FREEWAY TRAVEL TIME (PAS-HR)	RAMP DELAY (VEH-HR)	RAMP DELAY (PAS-HR)	TOTAL FREEWAY TRAVEL TIME (VEH-HR)	TOTAL FREEWAY TRAVEL TIME (PAS-HR)	TOTAL TRAVEL DISTANCE (VEH-MI)	TOTAL TRAVEL DISTANCE (PAS-MI)	AVERAGE SPEED (MPH)	GASOLINE CONSUMED (GALLONS)	HYDROCARB EMISSIONS (KILOGRAMS)	CARBON MONOXIDE (KILOGRAMS)	NITROUS OXIDES (KILOGRAMS)	BEGIN TIME
1	179.	211.	0.	0.	179.	211.	10008.	11810.	56.0	509.	1.	22.	8.	14:00
2	203.	239.	0.	0.	203.	239.	10465.	12349.	51.6	534.	1.	23.	8.	14:15
3	216.	255.	0.	0.	216.	255.	9960.	11753.	46.1	515.	2.	23.	8.	14:30
4	250.	295.	0.	0.	250.	295.	10453.	12335.	41.8	545.	2.	24.	8.	14:45
5	278.	328.	0.	0.	278.	328.	9675.	11416.	34.8	524.	2.	25.	7.	15:00
6	293.	346.	0.	0.	293.	346.	9717.	11466.	33.2	531.	2.	25.	7.	15:15
7	295.	348.	0.	0.	295.	348.	9619.	11351.	32.6	527.	2.	25.	7.	15:30
8	316.	372.	0.	0.	316.	372.	10098.	11916.	32.0	561.	2.	26.	8.	15:45
9	345.	407.	0.	0.	345.	407.	9760.	11516.	28.3	558.	2.	27.	7.	16:00
10	371.	438.	0.	0.	371.	438.	9859.	11634.	26.6	574.	3.	27.	7.	16:15
11	399.	471.	0.	0.	399.	471.	9637.	11372.	24.2	574.	3.	28.	7.	16:30
12	412.	486.	0.	0.	412.	486.	9662.	11401.	23.4	584.	3.	29.	7.	16:45
13	409.	482.	0.	0.	409.	482.	9204.	10861.	22.5	561.	3.	29.	7.	17:00
14	380.	448.	0.	0.	380.	448.	9492.	11201.	25.0	562.	3.	28.	7.	17:15
15	376.	444.	0.	0.	376.	444.	9235.	10897.	24.6	548.	3.	27.	7.	17:30
16	325.	384.	0.	0.	325.	384.	9890.	11670.	30.4	557.	2.	27.	7.	17:45
17	285.	336.	0.	0.	285.	336.	9676.	11418.	34.0	529.	2.	25.	7.	18:00
18	251.	296.	0.	0.	251.	296.	9551.	11270.	38.1	511.	2.	24.	7.	18:15
19	209.	246.	0.	0.	209.	246.	9359.	11044.	44.8	493.	1.	23.	7.	18:30
20	173.	204.	0.	0.	173.	204.	8795.	10378.	51.0	461.	1.	23.	7.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	135.	159.	0.	0.	135.	159.	7176.	8468.	53.2	390.	1.	23.	6.	19:00
22	108.	128.	0.	0.	108.	128.	6545.	7723.	60.6	351.	1.	21.	6.	19:15
23	95.	113.	0.	0.	95.	113.	5770.	6808.	60.4	311.	1.	18.	5.	19:30
TOTAL	6302.	7436.	0.	0.	6302.	7436.	213606.	252055.	33.9	11811.	44.	573.	163.	

Existing (2019) plus Interim Build
(Aux Lanes Only)
Northbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2232.	24.	2232.	2232.	24.	2232.	4400.	0.	0.	0.	.51	62.	18.0	C	13.6	4.8
2	2	1970.	0.	0.	2208.	0.	0.	2208.	4100.	0.	0.	0.	.54	62.	17.8	B	13.6	4.8
3	2	1830.	176.	24.	2384.	176.	24.	2384.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
4	2	2010.	0.	0.	2360.	0.	0.	2360.	4100.	0.	0.	0.	.58	62.	19.0	C	13.6	4.8
5	2	2445.	328.	96.	2688.	328.	96.	2688.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
6	2	1890.	0.	0.	2592.	0.	0.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
7	2	5320.	316.	136.	2908.	316.	136.	2908.	4100.	0.	0.	0.	.71	62.	23.5	C	13.6	4.8
8	2	880.	0.	0.	2772.	0.	0.	2772.	3900.	0.	0.	0.	.71	62.	22.4	C	14.9	4.8
9	2	1125.	84.	0.	2856.	84.	0.	2856.	3900.	0.	0.	0.	.73	62.	23.0	C	19.9	4.8
10	3	6320.	248.	84.	3104.	248.	84.	3104.	5599.	1.	0.	0.	.55	62.	16.7	B	19.9	4.8
11	2	2050.	0.	0.	3020.	0.	0.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
12	3	2560.	212.	0.	3232.	212.	0.	3232.	5589.	11.	0.	0.	.58	62.	17.4	B	17.2	4.8
13	3	1400.	0.	168.	3232.	0.	168.	3232.	5589.	11.	0.	0.	.58	62.	17.4	B	32.3	4.8
14	2	1320.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	14.9	4.8
15	3	540.	376.	548.	3440.	376.	548.	3440.	5284.	316.	0.	0.	.65	62.	18.5	C	12.6	4.8
16	2	1230.	0.	0.	2892.	0.	0.	2892.	4400.	0.	0.	0.	.66	62.	23.3	C	19.9	4.8
17	2	890.	404.	0.	3296.	404.	0.	3296.	4400.	0.	0.	0.	.75	62.	26.7	D	20.1	4.6
18	3	4840.	72.	424.	3368.	72.	424.	3368.	5578.	22.	0.	0.	.60	62.	18.1	C	17.2	4.8
19	2	530.	0.	0.	2944.	0.	0.	2944.	3800.	0.	0.	0.	.77	62.	23.7	C	19.9	4.8
20	2	1040.	504.	0.	3448.	504.	0.	3448.	4393.	7.	0.	0.	.78	61.	28.1	D	20.3	4.4
21	3	2810.	300.	280.	3748.	300.	280.	3748.	5576.	24.	0.	0.	.67	62.	20.2	C	24.1	4.8
22	2	1850.	0.	0.	3468.	0.	0.	3468.	4400.	0.	0.	0.	.79	61.	28.3	D	17.5	4.3
23	3	2390.	208.	216.	3676.	208.	216.	3676.	5580.	20.	0.	0.	.66	62.	19.8	C	24.1	4.8
24	3	960.	0.	1972.	3460.	0.	1500.	3460.	5600.	0.	0.	0.	.62	62.	18.6	C	17.2	4.8
25	2	1400.	0.	1488.	1488.	0.	1488.	1488.	3600.	0.	0.	0.	.41	62.	12.0	B	19.9	4.8
TOTAL		62500. =	11.8 MILES							MAX(V/C) = 0.79	LOWEST LOS = D		AVG = 62.		19.9		16.6	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	154. PASS-HRS	136. VEH-HRS	154. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	15. VEH-HRS	17. PASS-HRS	15. VEH-HRS	17. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	151. VEH-HRS	171. PASS-HRS	151. VEH-HRS	171. PASS-HRS
TOTAL TRAV DISTANCE =	8448. VEH-MI.	9563. PASS-MI.	8448. VEH-MI.	9563. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		20. VPMPL	
TOTAL FUEL =	515. GALLONS		515. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		41. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	118.	14.75	5.59	0.09	0.53	0.09	0.71

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2840.	20.	2840.	2840.	20.	2840.	4400.	0.	0.	0.	.65	62.	22.9	C	13.6	4.8
2	2	1970.	0.	0.	2820.	0.	0.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
3	2	1830.	204.	36.	3024.	204.	36.	3024.	4100.	0.	0.	0.	.74	62.	24.4	C	13.6	4.8
4	2	2010.	0.	0.	2988.	0.	0.	2988.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
5	2	2445.	440.	120.	3428.	440.	120.	3428.	4100.	0.	0.	0.	.84	60.	28.5	D	14.1	3.7
6	2	1890.	0.	0.	3308.	0.	0.	3308.	4100.	0.	0.	0.	.81	61.	27.2	D	13.9	4.1
7	2	5320.	324.	180.	3632.	324.	180.	3632.	4100.	0.	0.	0.	.89	58.	31.1	D	14.4	3.2
8	2	880.	0.	0.	3452.	0.	0.	3452.	3900.	0.	0.	0.	.89	58.	29.5	D	15.9	3.2
9	2	1125.	116.	0.	3568.	116.	0.	3568.	3900.	0.	0.	0.	.91	57.	31.2	D	21.7	2.9
10	3	6320.	292.	104.	3860.	292.	104.	3860.	5598.	2.	0.	0.	.69	62.	20.8	C	19.9	4.8
11	2	2050.	0.	0.	3756.	0.	0.	3756.	4100.	0.	0.	0.	.92	57.	32.9	D	21.7	2.9
12	3	2560.	248.	0.	4004.	248.	0.	4004.	5588.	12.	0.	0.	.72	62.	21.5	C	17.2	4.8
13	3	1400.	0.	172.	4004.	0.	172.	4004.	5588.	12.	0.	0.	.72	62.	21.5	C	32.3	4.8
14	2	1320.	0.	0.	3832.	0.	0.	3832.	4400.	0.	0.	0.	.87	59.	32.5	D	15.8	3.4
15	3	540.	376.	740.	4208.	376.	740.	4208.	5288.	312.	0.	0.	.80	62.	22.6	C	12.6	4.8
16	2	1230.	0.	0.	3468.	0.	0.	3468.	4400.	0.	0.	0.	.79	61.	28.3	D	20.3	4.3
17	2	890.	432.	0.	3900.	432.	0.	3900.	4398.	2.	0.	0.	.89	58.	33.4	D	21.4	3.2
18	3	4840.	84.	556.	3984.	84.	556.	3984.	5565.	35.	0.	0.	.72	62.	21.4	C	17.2	4.8
19	2	530.	0.	0.	3428.	0.	0.	3428.	3800.	0.	0.	0.	.90	58.	29.7	D	21.5	3.1
20	2	1040.	492.	0.	3920.	492.	0.	3920.	4389.	11.	0.	0.	.89	58.	33.7	D	21.4	3.2
21	3	2810.	352.	376.	4272.	352.	376.	4272.	5568.	32.	0.	0.	.77	62.	23.0	C	24.1	4.8
22	2	1850.	0.	0.	3896.	0.	0.	3896.	4400.	0.	0.	0.	.89	58.	33.3	D	18.4	3.2
23	3	2390.	204.	320.	4100.	204.	320.	4100.	5562.	38.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1948.	3780.	0.	1500.	3780.	5592.	8.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	1832.	1832.	0.	1832.	1832.	3600.	0.	0.	0.	.51	62.	14.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES						MAX(V/C) = 0.92		LOWEST LOS = D		AVG = 61.		24.9		16.8	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	170. VEH-HRS	192. PASS-HRS	306. VEH-HRS	346. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	44. VEH-HRS	49. PASS-HRS	58. VEH-HRS	66. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	213. VEH-HRS	241. PASS-HRS	364. VEH-HRS	412. PASS-HRS
TOTAL TRAV DISTANCE =	10328. VEH-MI.	11692. PASS-MI.	18777. VEH-MI.	21255. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		22. VPMPL	
TOTAL FUEL =	631. GALLONS		1146. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		87. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	230.	43.50	16.48	0.25	1.56	0.27	2.08

QUEUE COLLISION IN SECTION 5 T2 =0.186

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3760.	32.	3760.	3760.	32.	3760.	4400.	0.	0.	0.	.85	60.	31.5	D	14.2	3.5
2	2	1970.	0.	0.	3728.	0.	0.	3293.	4100.	0.	* 547.	435.	.80	56.	29.4	F	14.6	3.0
3	2	1830.	276.	160.	4004.	276.	160.	3569.	4100.	0.	** 1830.	435.	.87	43.	41.1	F	14.8	2.7
4	2	2010.	0.	0.	3844.	0.	0.	3409.	4100.	0.	** 2010.	435.	.83	32.	52.6	F	13.6	3.4
5	2	2445.	480.	144.	4324.	480.	137.	3889.	4100.	0.	** 2445.	211.	.95	41.	47.0	F	14.9	2.6
6	2	1890.	0.	0.	4180.	0.	0.	3752.	4100.	0.	** 1890.	211.	.92	32.	59.2	F	13.8	3.2
7	2	5320.	348.	252.	4528.	348.	228.	3968.	4100.	0.	* 4217.	132.	.97	45.	44.2	F	15.1	2.5
8	2	880.	0.	0.	4276.	0.	0.	3740.	3900.	0.	** 880.	132.	.96	35.	53.5	F	15.1	2.9
9	2	1125.	160.	0.	4436.	160.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	280.	156.	4716.	280.	138.	4180.	5597.	3.	0.	0.	.75	62.	22.5	C	19.9	4.8
11	2	2050.	0.	0.	4560.	0.	0.	4042.	4100.	0.	0.	0.	.99	53.	38.4	E	22.8	2.4
12	3	2560.	304.	0.	4864.	304.	0.	4346.	5584.	16.	0.	0.	.78	62.	23.4	C	17.2	4.8
13	3	1400.	0.	240.	4864.	0.	214.	4346.	5584.	16.	0.	0.	.78	62.	23.4	C	32.3	4.8
14	2	1320.	0.	0.	4624.	0.	0.	4131.	4400.	0.	0.	0.	.94	56.	37.0	E	16.5	2.6
15	3	540.	436.	988.	5060.	436.	892.	4567.	5248.	352.	0.	0.	.87	62.	24.6	C	12.6	4.8
16	2	1230.	0.	0.	4072.	0.	0.	3675.	4400.	0.	0.	0.	.84	60.	30.5	D	20.8	3.7
17	2	890.	444.	0.	4516.	444.	0.	4119.	4395.	5.	0.	0.	.94	56.	36.9	E	22.1	2.6
18	3	4840.	76.	692.	4592.	76.	632.	4195.	5551.	49.	0.	0.	.76	62.	22.6	C	17.2	4.8
19	2	530.	0.	0.	3900.	0.	0.	3563.	3800.	0.	0.	0.	.94	56.	31.9	D	22.1	2.6
20	2	1040.	496.	0.	4396.	496.	0.	4059.	4385.	15.	0.	0.	.93	57.	35.9	E	21.9	2.8
21	3	2810.	408.	568.	4804.	408.	528.	4467.	5556.	44.	0.	0.	.80	62.	24.0	C	24.1	4.8
22	2	1850.	0.	0.	4236.	0.	0.	3939.	4400.	0.	0.	0.	.90	58.	33.9	D	18.5	3.1
23	3	2390.	180.	312.	4416.	180.	291.	4119.	5559.	41.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	2148.	4104.	0.	1500.	3828.	5589.	11.	0.	0.	.68	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1956.	1956.	0.	1824.	1824.	3600.	0.	0.	0.	.51	62.	14.7	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 53.	32.5		17.0	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	219. VEH-HRS	248. PASS-HRS	525. VEH-HRS	594. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	73. VEH-HRS	83. PASS-HRS	131. VEH-HRS	149. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	292. VEH-HRS	331. PASS-HRS	656. VEH-HRS	743. PASS-HRS
TOTAL TRAV DISTANCE =	11690. VEH-MI.	13233. PASS-MI.	30467. VEH-MI.	34488. PASS-MI.
AVERAGE SYSTEM SPEED =	40. MPH.		58. MPH.	
AVERAGE DENSITY =	32. VPMPL		26. VPMPL	
TOTAL FUEL =	715. GALLONS		1861. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		134. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	356.	73.24	27.74	0.43	2.62	0.46	3.50

QUEUE COLLISION IN SECTION 7 T2 =0.090

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3916.	60.	3916.	3916.	60.	3728.	4400.	0.	* 764.	188.	.85	58.	32.4	F	14.4	3.2
2	2	1970.	0.	0.	3856.	0.	0.	3668.	4100.	0.	** 1970.	188.	.89	35.	52.4	F	13.9	3.1
3	2	1830.	376.	332.	4232.	376.	318.	3867.	4054.	46.	** 1830.	188.	.95	35.	55.4	F	14.1	2.9
4	2	2010.	0.	0.	3900.	0.	0.	3549.	4100.	0.	B* 2010.	188.	.87	25.	71.0	F	12.9	3.8
5	2	2445.	868.	200.	4768.	868.	169.	3830.	4018.	82.	** 2445.	188.	.95	34.	55.9	F	14.0	2.9
6	2	1890.	0.	0.	4568.	0.	0.	3662.	4100.	0.	** 1890.	188.	.89	27.	67.5	F	13.2	3.5
7	2	5320.	372.	336.	4940.	372.	279.	4034.	4100.	0.	** 5320.	66.	.98	38.	53.4	F	14.2	2.7
8	2	880.	0.	0.	4604.	0.	0.	3755.	3900.	0.	** 880.	66.	.96	34.	54.7	F	15.0	2.9
9	2	1125.	144.	0.	4748.	144.	0.	3899.	3899.	1.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	320.	216.	5068.	320.	180.	4219.	5594.	6.	0.	0.	.75	62.	22.7	C	19.9	4.8
11	2	2050.	0.	0.	4852.	0.	0.	4040.	4100.	0.	0.	0.	.99	53.	38.3	E	22.8	2.4
12	3	2560.	352.	0.	5204.	352.	0.	4392.	5572.	28.	0.	0.	.79	62.	23.6	C	17.2	4.8
13	3	1400.	0.	416.	5204.	0.	352.	4392.	5572.	28.	0.	0.	.79	62.	23.6	C	32.3	4.8
14	2	1320.	0.	0.	4788.	0.	0.	4040.	4400.	0.	0.	0.	.92	57.	35.5	E	16.2	2.9
15	3	540.	496.	1196.	5284.	496.	1026.	4536.	5216.	384.	0.	0.	.87	62.	24.4	C	12.6	4.8
16	2	1230.	0.	0.	4088.	0.	0.	3510.	4400.	0.	0.	0.	.80	61.	28.7	D	20.4	4.2
17	2	890.	432.	0.	4520.	432.	0.	3942.	4395.	5.	0.	0.	.90	58.	34.0	D	21.5	3.1
18	3	4840.	84.	784.	4604.	84.	685.	4026.	5545.	55.	0.	0.	.73	62.	21.6	C	17.2	4.8
19	2	530.	0.	0.	3820.	0.	0.	3340.	3800.	0.	0.	0.	.88	59.	28.4	D	21.3	3.3
20	2	1040.	536.	0.	4356.	536.	0.	3876.	4380.	20.	0.	0.	.89	58.	33.1	D	21.3	3.2
21	3	2810.	424.	756.	4780.	424.	680.	4300.	5539.	61.	0.	0.	.78	62.	23.1	C	24.1	4.8
22	2	1850.	0.	0.	4024.	0.	0.	3620.	4400.	0.	0.	0.	.82	61.	29.9	D	17.8	3.9
23	3	2390.	236.	192.	4260.	236.	175.	3856.	5550.	50.	0.	0.	.69	62.	20.7	C	24.1	4.8
24	3	960.	0.	2308.	4068.	0.	1500.	3682.	5591.	9.	0.	0.	.66	62.	19.8	C	17.2	4.8
25	2	1400.	0.	1760.	1760.	0.	1593.	1593.	3600.	0.	0.	0.	.44	62.	12.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 49.	35.3		16.7	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	235. VEH-HRS	266. PASS-HRS	760. VEH-HRS	860. PASS-HRS
FREEWAY MERGE DELAY =	2. VEH-HRS	2. PASS-HRS	2. VEH-HRS	2. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	107. VEH-HRS	122. PASS-HRS	239. VEH-HRS	270. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	344. VEH-HRS	390. PASS-HRS	1001. VEH-HRS	1133. PASS-HRS
TOTAL TRAV DISTANCE =	11594. VEH-MI.	13125. PASS-MI.	42061. VEH-MI.	47613. PASS-MI.
AVERAGE SYSTEM SPEED =	34. MPH.		55. MPH.	
AVERAGE DENSITY =	35. VPMPL		28. VPMPL	
TOTAL FUEL =	735. GALLONS		2596. GALLONS	
TOTAL EMISSIONS =	49. KILOGRAMS		183. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	17.	2.12	0.80	0.01	0.08	0.01	0.10
		TOTAL	17.	2.12	0.80	0.01	0.08	0.01	0.10
OFF-RAMP	11	OUTPUT POINT	503.	107.37	40.67	0.62	3.84	0.67	5.14

```
QUEUE SPLIT SECTION  7
QUEUE CLEAR SECTION   8 T2 =0.227
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1952.	84.	1952.	1952.	84.	1952.	4400.	0.	0.	0.	.44	56.	17.5	B	13.4	4.8
2	2	1970.	0.	0.	1868.	0.	0.	2173.	4100.	0.	* 1063.	-305.	.53	9.	118.3	F	8.7	7.5
3	2	1830.	632.	444.	2500.	632.	444.	2805.	3901.	199.	** 1830.	-305.	.72	15.	93.5	F	11.2	5.7
4	2	2010.	0.	0.	2056.	0.	0.	2361.	4100.	0.	** 2010.	-305.	.58	10.	122.3	F	9.4	7.1
5	2	2445.	1716.	288.	3772.	1500.	277.	3929.	3952.	148.	** 2445.	-305.	.99	39.	50.3	F	14.2	2.6
6	2	1890.	0.	0.	3484.	0.	0.	3652.	4100.	0.	** 1890.	-305.	.89	26.	69.6	F	13.1	3.6
7	2	5320.	448.	424.	3932.	448.	409.	4100.	4100.	0.	** 5320.	-305.	1.00	40.	51.3	F	14.2	2.6
8	2	880.	0.	0.	3508.	0.	0.	3724.	3900.	0.	0.	-33.	.95	43.	43.7	E	15.8	2.7
9	2	1125.	152.	0.	3660.	152.	0.	3876.	3900.	0.	0.	0.	.99	52.	37.2	E	22.9	2.3
10	3	6320.	440.	256.	4100.	440.	270.	4316.	5597.	3.	0.	0.	.77	62.	23.2	C	19.9	4.8
11	2	2050.	0.	0.	3844.	0.	0.	4046.	4100.	0.	0.	0.	.99	53.	38.5	E	22.8	2.4
12	3	2560.	388.	0.	4232.	388.	0.	4434.	5564.	36.	0.	0.	.80	62.	23.8	C	17.2	4.8
13	3	1400.	0.	404.	4232.	0.	423.	4434.	5564.	36.	0.	0.	.80	62.	23.8	C	32.3	4.8
14	2	1320.	0.	0.	3828.	0.	0.	4011.	4400.	0.	0.	0.	.91	57.	35.0	E	16.2	3.0
15	3	540.	680.	1152.	4508.	680.	1199.	4691.	5092.	508.	0.	0.	.92	57.	27.5	D	13.7	2.8
16	2	1230.	0.	0.	3356.	0.	0.	3492.	4400.	0.	0.	0.	.79	61.	28.6	D	20.4	4.3
17	2	890.	508.	0.	3864.	508.	0.	4000.	4399.	1.	0.	0.	.91	57.	34.8	D	21.6	3.0
18	3	4840.	116.	752.	3980.	116.	778.	4116.	5555.	45.	0.	0.	.74	62.	22.1	C	17.2	4.8
19	2	530.	0.	0.	3228.	0.	0.	3338.	3800.	0.	0.	0.	.88	59.	28.4	D	21.3	3.3
20	2	1040.	648.	0.	3876.	648.	0.	3986.	4378.	22.	0.	0.	.91	57.	34.8	D	21.7	3.0
21	3	2810.	508.	724.	4384.	508.	742.	4494.	5529.	71.	0.	0.	.81	62.	24.2	C	24.1	4.8
22	2	1850.	0.	0.	3660.	0.	0.	3752.	4400.	0.	0.	0.	.85	60.	31.4	D	18.1	3.5
23	3	2390.	304.	172.	3964.	304.	176.	4056.	5538.	62.	0.	0.	.73	62.	21.8	C	24.1	4.8
24	3	960.	0.	1852.	3792.	0.	1500.	3880.	5586.	14.	0.	0.	.69	62.	20.9	C	17.2	4.8
25	2	1400.	0.	1940.	1940.	0.	1985.	1985.	3600.	0.	0.	0.	.55	62.	16.0	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 42.	37.0		16.5	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	242. VEH-HRS	274. PASS-HRS	1002. VEH-HRS	1134. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	1. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	7. VEH-HRS	8. PASS-HRS
OFF-RAMP DELAY =	138. VEH-HRS	156. PASS-HRS	377. VEH-HRS	427. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	387. VEH-HRS	439. PASS-HRS	1388. VEH-HRS	1571. PASS-HRS
TOTAL TRAV DISTANCE =	10212. VEH-MI.	11560. PASS-MI.	52273. VEH-MI.	59173. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		52. MPH.	
AVERAGE DENSITY =	37. VPMPL		30. VPMPL	
TOTAL FUEL =	672. GALLONS		3268. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		233. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	54.	6.75	2.56	0.04	0.24	0.04	0.32
		FREEWAY	0.	0.44	0.17	0.00	0.02	0.00	0.02
		TOTAL	54.	7.19	2.72	0.04	0.26	0.04	0.34
OFF-RAMP	11	OUTPUT POINT	602.	138.10	52.31	0.80	4.94	0.86	6.61

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1940.	104.	1940.	1940.	104.	1940.	4400.	0.	0.	0.	.44	62.	15.6	B	13.6	4.8
2	2	1970.	0.	0.	1836.	0.	0.	1974.	4100.	0.	* 324.	-138.	.48	16.	61.0	F	10.5	6.1
3	2	1830.	724.	392.	2560.	724.	392.	2698.	3918.	182.	** 1830.	-138.	.69	14.	98.8	F	10.7	6.0
4	2	2010.	0.	0.	2168.	0.	0.	2306.	4100.	0.	** 2010.	-138.	.56	9.	124.5	F	9.1	7.3
5	2	2445.	1548.	384.	3716.	1500.	374.	3806.	3876.	224.	** 2445.	-138.	.98	37.	51.3	F	14.1	2.7
6	2	1890.	0.	0.	3332.	0.	0.	3432.	4100.	0.	** 1890.	-138.	.84	22.	78.5	F	12.3	4.3
7	2	5320.	668.	576.	4000.	668.	564.	4100.	4100.	0.	** 5320.	-138.	1.00	40.	51.3	F	14.2	2.6
8	2	880.	0.	0.	3424.	0.	0.	3536.	3900.	0.	0.	0.	.91	58.	30.7	D	16.1	3.0
9	2	1125.	212.	0.	3636.	212.	0.	3748.	3900.	0.	0.	0.	.96	54.	34.4	D	22.4	2.4
10	3	6320.	544.	348.	4180.	544.	354.	4292.	5594.	6.	0.	0.	.77	62.	23.1	C	19.9	4.8
11	2	2050.	0.	0.	3832.	0.	0.	3938.	4100.	0.	0.	0.	.96	54.	36.2	E	22.4	2.4
12	3	2560.	520.	0.	4352.	520.	0.	4458.	5564.	36.	0.	0.	.80	62.	24.0	C	17.2	4.8
13	3	1400.	0.	288.	4352.	0.	300.	4332.	5564.	36.	* 480.	126.	.78	52.	27.9	F	31.9	4.8
14	2	1320.	0.	0.	4064.	0.	0.	4032.	4400.	0.	** 1320.	126.	.92	33.	61.1	F	14.9	3.1
15	3	540.	892.	1192.	4956.	892.	1187.	4924.	4924.	676.	0.	0.	1.00	52.	31.8	E	14.5	2.3
16	2	1230.	0.	0.	3764.	0.	0.	3737.	4400.	0.	0.	0.	.85	60.	31.3	D	21.0	3.6
17	2	890.	600.	0.	4364.	600.	0.	4337.	4395.	5.	0.	0.	.99	53.	41.2	E	22.8	2.4
18	3	4840.	160.	776.	4524.	160.	773.	4452.	5534.	66.	* 269.	45.	.80	60.	24.9	F	17.1	4.8
19	2	530.	0.	0.	3748.	0.	0.	3679.	3800.	0.	** 530.	45.	.97	37.	49.7	F	21.8	2.8
20	2	1040.	692.	0.	4440.	692.	0.	4371.	4371.	29.	0.	0.	1.00	52.	42.4	E	23.0	2.3
21	3	2810.	776.	908.	5216.	776.	895.	5147.	5192.	408.	0.	0.	.99	52.	32.8	D	29.9	2.3
22	2	1850.	0.	0.	4308.	0.	0.	4252.	4400.	0.	0.	0.	.97	54.	39.3	E	19.5	2.4
23	3	2390.	304.	200.	4612.	304.	197.	4556.	5524.	76.	0.	0.	.82	62.	24.5	C	24.1	4.8
24	3	960.	0.	1676.	4412.	0.	1500.	4358.	5573.	27.	0.	0.	.78	62.	23.4	C	17.2	4.8
25	2	1400.	0.	2736.	2736.	0.	2696.	2696.	3600.	0.	0.	0.	.75	62.	21.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES										MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 43. 37.2	16.9 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	247. VEH-HRS	279. PASS-HRS	1248. VEH-HRS	1413. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	15. VEH-HRS	17. PASS-HRS	22. VEH-HRS	25. PASS-HRS
OFF-RAMP DELAY =	155. VEH-HRS	176. PASS-HRS	532. VEH-HRS	603. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	417. VEH-HRS	472. PASS-HRS	1805. VEH-HRS	2043. PASS-HRS
TOTAL TRAV DISTANCE =	10511. VEH-MI.	11899. PASS-MI.	62784. VEH-MI.	71071. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		50. MPH.	
AVERAGE DENSITY =	37. VPMPL		31. VPMPL	
TOTAL FUEL =	685. GALLONS		3954. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		282. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	66.	15.00	5.68	0.09	0.54	0.09	0.72
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	66.	15.00	5.68	0.09	0.54	0.09	0.72
OFF-RAMP	11	OUTPUT POINT	642.	155.50	58.90	0.90	5.56	0.97	7.44

QUEUE COLLISION IN SECTION 20 T2 =0.025

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2920.	136.	2920.	2920.	136.	2537.	4400.	0.	* 848.	383.	.58	59.	21.6	F	13.5	4.8
2	2	1970.	0.	0.	2784.	0.	0.	2401.	4100.	0.	** 1970.	383.	.59	13.	90.6	F	10.6	6.3
3	2	1830.	452.	172.	3236.	452.	172.	2853.	4100.	0.	** 1830.	383.	.70	14.	102.2	F	10.8	6.0
4	2	2010.	0.	0.	3064.	0.	0.	2681.	4100.	0.	** 2010.	383.	.65	12.	109.2	F	10.3	6.3
5	2	2445.	640.	304.	3704.	904.	329.	3585.	3949.	151.	** 2445.	364.	.91	28.	64.2	F	13.3	3.5
6	2	1890.	0.	0.	3400.	0.	0.	3256.	4100.	0.	** 1890.	364.	.79	19.	85.7	F	11.8	4.8
7	2	5320.	844.	696.	4244.	844.	667.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
8	2	880.	0.	0.	3548.	0.	0.	3433.	3900.	0.	0.	0.	.88	59.	29.2	D	15.9	3.3
9	2	1125.	212.	0.	3760.	212.	0.	3645.	3900.	0.	0.	0.	.93	56.	32.5	D	22.0	2.6
10	3	6320.	516.	412.	4276.	516.	398.	4161.	5591.	9.	0.	0.	.74	62.	22.4	C	19.9	4.8
11	2	2050.	0.	0.	3864.	0.	0.	3763.	4100.	0.	0.	0.	.92	57.	33.0	D	21.8	2.9
12	3	2560.	652.	0.	4516.	652.	0.	3994.	5568.	32.	* 1905.	421.	.72	36.	37.2	F	16.0	5.0
13	3	1400.	0.	228.	4516.	0.	226.	3994.	5568.	32.	** 1400.	421.	.72	16.	81.3	F	25.0	5.6
14	2	1320.	0.	0.	4288.	0.	0.	3768.	4400.	0.	** 1320.	421.	.86	23.	80.8	F	13.4	4.0
15	3	540.	1052.	1380.	5340.	1052.	1244.	4820.	4820.	780.	0.	0.	1.00	52.	31.2	E	14.5	2.3
16	2	1230.	0.	0.	3960.	0.	0.	3576.	4400.	0.	0.	0.	.81	61.	29.4	D	20.6	4.0
17	2	890.	616.	0.	4576.	616.	0.	4192.	4393.	7.	0.	0.	.95	55.	38.2	E	22.4	2.4
18	3	4840.	136.	728.	4712.	136.	671.	3769.	5531.	69.	* 3303.	560.	.68	30.	41.9	F	15.4	5.2
19	2	530.	0.	0.	3984.	0.	0.	3098.	3800.	0.	** 530.	560.	.82	21.	72.2	F	18.3	4.3
20	2	1040.	728.	0.	4712.	728.	0.	3826.	4363.	37.	** 1040.	537.	.88	26.	74.2	F	19.5	3.7
21	3	2810.	1016.	1140.	5728.	1016.	961.	4842.	4842.	758.	0.	0.	1.00	52.	31.3	E	30.3	2.3
22	2	1850.	0.	0.	4588.	0.	0.	3881.	4400.	0.	0.	0.	.88	59.	33.1	D	18.3	3.3
23	3	2390.	368.	260.	4956.	368.	223.	4249.	5500.	100.	0.	0.	.77	62.	22.8	C	24.1	4.8
24	3	960.	0.	1900.	4696.	0.	1500.	4026.	5564.	36.	0.	0.	.72	62.	21.6	C	17.2	4.8
25	2	1400.	0.	2796.	2796.	0.	2398.	2398.	3600.	0.	0.	0.	.67	62.	19.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 37.	42.2		16.3	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	293. VEH-HRS	332. PASS-HRS	1542. VEH-HRS	1745. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	8. VEH-HRS	9. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	165. VEH-HRS	186. PASS-HRS	697. VEH-HRS	789. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	466. VEH-HRS	528. PASS-HRS	2272. VEH-HRS	2571. PASS-HRS
TOTAL TRAV DISTANCE =	10763. VEH-MI.	12184. PASS-MI.	73547. VEH-MI.	83256. PASS-MI.
AVERAGE SYSTEM SPEED =	23. MPH.		48. MPH.	
AVERAGE DENSITY =	42. VPMPL		33. VPMPL	
TOTAL FUEL =	727. GALLONS		4681. GALLONS	
TOTAL EMISSIONS =	54. KILOGRAMS		336. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	0.	8.25	3.12	0.05	0.30	0.05	0.39
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	8.25	3.12	0.05	0.30	0.05	0.39
OFF-RAMP	11	OUTPUT POINT	674.	164.58	62.33	0.96	5.89	1.03	7.87

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2628.	176.	2628.	2628.	176.	2628.	4400.	0.	0.	0.	.60	59.	22.4	C	13.5	4.8
2	2	1970.	0.	0.	2452.	0.	0.	2756.	4100.	0.	* 568.	-304.	.67	15.	89.7	F	11.0	5.9
3	2	1830.	372.	160.	2824.	372.	160.	3128.	4100.	0.	** 1830.	-304.	.76	17.	91.0	F	11.5	5.2
4	2	2010.	0.	0.	2664.	0.	0.	2968.	4100.	0.	** 2010.	-304.	.72	15.	97.5	F	11.2	5.7
5	2	2445.	656.	288.	3320.	656.	288.	3624.	4065.	35.	** 2445.	-304.	.89	26.	68.8	F	13.1	3.6
6	2	1890.	0.	0.	3032.	0.	0.	3336.	4100.	0.	** 1890.	-304.	.81	20.	82.5	F	12.0	4.5
7	2	5320.	764.	700.	3796.	764.	756.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
8	2	880.	0.	0.	3096.	0.	0.	3344.	3900.	0.	0.	0.	.86	60.	28.1	D	15.7	3.5
9	2	1125.	208.	0.	3304.	208.	0.	3552.	3900.	0.	0.	0.	.91	57.	31.0	D	21.7	3.0
10	3	6320.	456.	384.	3760.	456.	409.	3577.	5595.	5.	* 816.	431.	.64	57.	20.9	F	19.8	4.8
11	2	2050.	0.	0.	3376.	0.	0.	3168.	4100.	0.	** 2050.	431.	.77	27.	59.7	F	18.6	4.3
12	3	2560.	752.	0.	4128.	752.	0.	3920.	5548.	52.	** 2560.	431.	.71	15.	88.3	F	13.0	5.8
13	3	1400.	0.	288.	4128.	0.	304.	3920.	5548.	52.	** 1400.	431.	.71	14.	90.6	F	23.5	5.9
14	2	1320.	0.	0.	3840.	0.	0.	3616.	4400.	0.	** 1320.	431.	.82	21.	87.0	F	12.9	4.5
15	3	540.	1148.	1364.	4988.	1148.	1302.	4764.	4764.	836.	0.	0.	1.00	52.	30.8	E	14.5	2.3
16	2	1230.	0.	0.	3624.	0.	0.	3462.	4400.	0.	0.	0.	.79	61.	28.3	D	20.3	4.3
17	2	890.	480.	0.	4104.	480.	0.	3942.	4397.	3.	0.	0.	.90	58.	34.0	D	21.5	3.1
18	3	4840.	160.	676.	4264.	160.	650.	3908.	5552.	48.	* 4537.	193.	.70	17.	77.2	F	13.5	5.7
19	2	530.	0.	0.	3588.	0.	0.	3258.	3800.	0.	** 530.	193.	.86	23.	69.6	F	18.8	4.0
20	2	1040.	728.	0.	4316.	728.	0.	3986.	4364.	36.	** 1040.	193.	.91	28.	70.0	F	20.2	3.4
21	3	2810.	948.	1132.	5264.	948.	1061.	4934.	4934.	666.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	4132.	0.	0.	3873.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	412.	312.	4544.	412.	295.	4285.	5501.	99.	0.	0.	.78	62.	23.0	C	24.1	4.8
24	3	960.	0.	1820.	4232.	0.	1500.	3991.	5565.	35.	0.	0.	.72	62.	21.5	C	17.2	4.8
25	2	1400.	0.	2412.	2412.	0.	2275.	2275.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 31.	47.4		15.9	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	333. VEH-HRS	377. PASS-HRS	1875. VEH-HRS	2122. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	175. VEH-HRS	198. PASS-HRS	872. VEH-HRS	988. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	508. VEH-HRS	575. PASS-HRS	2780. VEH-HRS	3147. PASS-HRS
TOTAL TRAV DISTANCE =	10461. VEH-MI.	11842. PASS-MI.	84008. VEH-MI.	95097. PASS-MI.
AVERAGE SYSTEM SPEED =	21. MPH.		45. MPH.	
AVERAGE DENSITY =	47. VPMPL		35. VPMPL	
TOTAL FUEL =	726. GALLONS		5407. GALLONS	
TOTAL EMISSIONS =	54. KILOGRAMS		390. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	728.	175.33	66.41	1.02	6.27	1.09	8.39

QUEUE COLLISION IN SECTION 15 T2 =0.242

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2892.	172.	2892.	2892.	172.	2892.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
2	2	1970.	0.	0.	2720.	0.	0.	2720.	4100.	0.	0.	0.	.66	55.	24.8	C	13.5	4.8
3	2	1830.	364.	204.	3084.	364.	204.	3084.	4100.	0.	0.	0.	.75	27.	56.7	F	12.6	4.6
4	2	2010.	0.	0.	2880.	0.	0.	3124.	4100.	0.	* 1829.	-244.	.76	17.	90.9	F	11.5	5.2
5	2	2445.	720.	416.	3600.	720.	416.	3844.	3951.	149.	** 2445.	-244.	.97	36.	53.7	F	14.1	2.8
6	2	1890.	0.	0.	3184.	0.	0.	3428.	4100.	0.	** 1890.	-244.	.84	22.	78.7	F	12.2	4.3
7	2	5320.	672.	672.	3856.	672.	715.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
8	2	880.	0.	0.	3184.	0.	0.	3385.	3900.	0.	0.	0.	.87	59.	28.6	D	15.8	3.4
9	2	1125.	216.	0.	3400.	216.	0.	3601.	3900.	0.	0.	0.	.92	57.	31.8	D	21.8	2.8
10	3	6320.	412.	376.	3812.	412.	396.	3509.	5594.	6.	* 3527.	504.	.63	26.	45.4	F	17.2	5.3
11	2	2050.	0.	0.	3436.	0.	0.	3113.	4100.	0.	** 2050.	504.	.76	17.	91.5	F	16.4	5.3
12	3	2560.	744.	0.	4180.	744.	0.	3857.	5544.	56.	** 2560.	504.	.70	14.	92.1	F	12.7	6.0
13	3	1400.	0.	312.	4180.	0.	325.	3857.	5544.	56.	** 1400.	504.	.70	14.	92.1	F	22.7	6.0
14	2	1320.	0.	0.	3868.	0.	0.	3245.	4400.	0.	** 1320.	791.	.74	19.	83.2	F	12.7	4.7
15	3	540.	1192.	1348.	5060.	1192.	1258.	4437.	4724.	876.	** 540.	287.	.94	50.	29.9	F	14.5	2.4
16	2	1230.	0.	0.	3712.	0.	0.	3179.	4400.	0.	** 1230.	287.	.72	30.	52.2	F	18.5	4.8
17	2	890.	504.	0.	4216.	504.	0.	3683.	4396.	4.	** 890.	287.	.84	27.	68.5	F	19.2	3.9
18	3	4840.	204.	608.	4420.	204.	574.	3887.	5554.	46.	** 4840.	287.	.70	14.	91.3	F	12.8	5.9
19	2	530.	0.	0.	3812.	0.	0.	3313.	3800.	0.	** 530.	287.	.87	25.	67.4	F	19.2	3.8
20	2	1040.	680.	0.	4492.	680.	0.	3993.	4365.	35.	** 1040.	287.	.91	29.	69.8	F	20.2	3.4
21	3	2810.	944.	1140.	5436.	944.	1036.	4937.	4937.	663.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	4296.	0.	0.	3901.	4400.	0.	0.	0.	.89	58.	33.4	D	18.4	3.2
23	3	2390.	444.	256.	4740.	444.	235.	4345.	5481.	119.	0.	0.	.79	62.	23.4	C	24.1	4.8
24	3	960.	0.	1880.	4484.	0.	1500.	4110.	5560.	40.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2604.	2604.	0.	2387.	2387.	3600.	0.	0.	0.	.66	62.	19.2	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 30. 49.4 15.6 4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	358. VEH-HRS	406. PASS-HRS	2233. VEH-HRS	2528. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	189. VEH-HRS	214. PASS-HRS	1061. VEH-HRS	1202. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	548. VEH-HRS	620. PASS-HRS	3327. VEH-HRS	3766. PASS-HRS
TOTAL TRAV DISTANCE =	10592. VEH-MI.	11990. PASS-MI.	94600. VEH-MI.	107087. PASS-MI.
AVERAGE SYSTEM SPEED =	19. MPH.		42. MPH.	
AVERAGE DENSITY =	49. VPMPL		36. VPMPL	
TOTAL FUEL =	750. GALLONS		6158. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		445. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	784.	189.05	71.60	1.10	6.76	1.18	9.04

QUEUE SPLIT SECTION 5

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2892.	160.	2892.	2892.	160.	2892.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
2	2	1970.	0.	0.	2732.	0.	0.	2732.	4100.	0.	0.	0.	.67	62.	22.0	C	13.6	4.8
3	2	1830.	404.	268.	3136.	404.	268.	3136.	4100.	0.	0.	0.	.76	62.	25.5	C	13.7	4.5
4	2	2010.	0.	0.	2868.	0.	0.	2883.	4100.	0.	* 1701.	-15.	.70	16.	91.5	F	11.2	5.8
5	2	2445.	980.	424.	3848.	980.	424.	3863.	3863.	237.	** 2445.	-15.	1.00	40.	48.3	F	14.2	2.6
6	2	1890.	0.	0.	3424.	0.	0.	3484.	4100.	0.	* 1258.	-45.	.85	25.	68.4	F	12.7	4.1
7	2	5320.	616.	664.	4040.	616.	674.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
8	2	880.	0.	0.	3376.	0.	0.	2752.	3900.	0.	* 211.	674.	.71	58.	23.6	F	15.8	3.3
9	2	1125.	184.	0.	3560.	184.	0.	2936.	3900.	0.	** 1125.	674.	.75	47.	31.2	F	21.3	3.0
10	3	6320.	364.	388.	3924.	364.	393.	3300.	5595.	5.	** 6320.	674.	.59	12.	89.7	F	13.7	6.4
11	2	2050.	0.	0.	3536.	0.	0.	2907.	4100.	0.	** 2050.	674.	.71	15.	100.0	F	15.3	5.8
12	3	2560.	668.	0.	4204.	668.	0.	3575.	5552.	48.	** 2560.	674.	.64	12.	100.1	F	11.8	6.4
13	3	1400.	0.	292.	4204.	0.	295.	3575.	5552.	48.	** 1400.	674.	.64	12.	100.1	F	19.8	6.4
14	2	1320.	0.	0.	3912.	0.	0.	3280.	4400.	0.	** 1320.	674.	.75	16.	100.7	F	12.1	5.4
15	3	540.	1112.	1296.	5024.	1112.	1232.	4392.	4776.	824.	** 540.	384.	.92	29.	50.3	F	13.0	3.3
16	2	1230.	0.	0.	3728.	0.	0.	3160.	4400.	0.	** 1230.	384.	.72	15.	105.7	F	15.6	5.7
17	2	890.	580.	0.	4308.	580.	0.	3740.	4396.	4.	** 890.	384.	.85	23.	81.7	F	18.6	4.1
18	3	4840.	212.	572.	4520.	212.	549.	3952.	5551.	49.	** 4840.	384.	.71	15.	89.8	F	13.0	5.8
19	2	530.	0.	0.	3948.	0.	0.	3403.	3800.	0.	** 530.	384.	.90	27.	63.7	F	19.7	3.6
20	2	1040.	680.	0.	4628.	680.	0.	4083.	4367.	33.	** 1040.	284.	.94	31.	66.2	F	20.8	3.2
21	3	2810.	908.	1048.	5536.	908.	945.	4991.	4991.	609.	0.	0.	1.00	52.	32.3	E	30.3	2.3
22	2	1850.	0.	0.	4488.	0.	0.	4046.	4400.	0.	0.	0.	.92	57.	35.6	E	18.8	2.8
23	3	2390.	536.	240.	5024.	536.	219.	4582.	5457.	143.	0.	0.	.84	62.	24.6	C	24.1	4.8
24	3	960.	0.	1860.	4784.	0.	1500.	4364.	5548.	52.	0.	0.	.79	62.	23.5	C	17.2	4.8
25	2	1400.	0.	2924.	2924.	0.	2667.	2667.	3600.	0.	0.	0.	.74	62.	21.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 26.	54.8	15.2	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	404. VEH-HRS	458. PASS-HRS	2638. VEH-HRS	2986. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	202. VEH-HRS	229. PASS-HRS	1264. VEH-HRS	1430. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	606. VEH-HRS	686. PASS-HRS	3934. VEH-HRS	4453. PASS-HRS
TOTAL TRAV DISTANCE =	10430. VEH-MI.	11806. PASS-MI.	105030. VEH-MI.	118893. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		40. MPH.	
AVERAGE DENSITY =	55. VPMPL		38. VPMPL	
TOTAL FUEL =	764. GALLONS		6921. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		502. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	833.	202.18	76.58	1.18	7.23	1.26	9.67

QUEUE COLLISION IN SECTION 7 T2 =0.184

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2624.	140.	2624.	2624.	140.	2624.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2484.	0.	0.	2484.	4100.	0.	0.	0.	.61	62.	20.0	C	13.6	4.8
3	2	1830.	368.	300.	2852.	368.	300.	2852.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
4	2	2010.	0.	0.	2552.	0.	0.	2729.	4100.	0.	* 355.	-177.	.67	20.	67.0	F	11.7	5.6
5	2	2445.	1140.	392.	3692.	1140.	392.	3869.	3869.	231.	** 2445.	-177.	1.00	40.	48.4	F	14.2	2.6
6	2	1890.	0.	0.	3300.	0.	0.	3145.	4100.	0.	* 1834.	332.	.77	29.	55.1	F	12.9	4.1
7	2	5320.	588.	672.	3888.	588.	709.	3733.	4100.	0.	** 5320.	367.	.91	36.	52.2	F	14.4	2.9
8	2	880.	0.	0.	3216.	0.	0.	3024.	3900.	0.	** 880.	367.	.78	19.	80.7	F	12.5	5.0
9	2	1125.	152.	0.	3368.	152.	0.	3176.	3900.	0.	** 1125.	367.	.81	20.	78.3	F	17.9	4.5
10	3	6320.	396.	440.	3764.	396.	461.	3572.	5596.	4.	** 6320.	367.	.64	12.	101.7	F	13.5	6.5
11	2	2050.	0.	0.	3324.	0.	0.	3112.	4100.	0.	** 2050.	367.	.76	17.	91.6	F	16.4	5.3
12	3	2560.	624.	0.	3948.	624.	0.	3736.	5548.	52.	** 2560.	367.	.67	13.	95.6	F	12.3	6.2
13	3	1400.	0.	332.	3948.	0.	345.	3736.	5548.	52.	** 1400.	367.	.67	13.	95.6	F	21.3	6.2
14	2	1320.	0.	0.	3616.	0.	0.	3391.	4400.	0.	** 1320.	367.	.77	18.	96.2	F	12.3	5.1
15	3	540.	1028.	1396.	4644.	1028.	1439.	4419.	4880.	720.	** 540.	367.	.91	28.	53.2	F	12.8	3.5
16	2	1230.	0.	0.	3248.	0.	0.	2980.	4400.	0.	** 1230.	367.	.68	13.	113.0	F	14.4	6.1
17	2	890.	632.	0.	3880.	632.	0.	3612.	4398.	2.	** 890.	367.	.82	21.	87.1	F	18.0	4.5
18	3	4840.	172.	544.	4052.	172.	557.	3784.	5554.	46.	** 4840.	367.	.68	13.	94.5	F	12.4	6.1
19	2	530.	0.	0.	3508.	0.	0.	3227.	3800.	0.	** 530.	367.	.85	23.	70.9	F	18.6	4.1
20	2	1040.	768.	0.	4276.	768.	0.	3995.	4364.	36.	** 1040.	367.	.92	29.	69.6	F	20.3	3.4
21	3	2810.	940.	1144.	5216.	940.	1082.	4935.	4935.	665.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	4072.	0.	0.	3852.	4400.	0.	0.	0.	.88	59.	32.7	D	18.3	3.3
23	3	2390.	424.	176.	4496.	424.	167.	4276.	5491.	109.	0.	0.	.78	62.	23.0	C	24.1	4.8
24	3	960.	0.	1916.	4320.	0.	1500.	4109.	5561.	39.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2404.	2404.	0.	2287.	2287.	3600.	0.	0.	0.	.64	62.	18.4	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 24. 56.8 14.9 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	417. VEH-HRS	472. PASS-HRS	3055. VEH-HRS	3458. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	218. VEH-HRS	247. PASS-HRS	1482. VEH-HRS	1678. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	635. VEH-HRS	719. PASS-HRS	4569. VEH-HRS	5172. PASS-HRS
TOTAL TRAV DISTANCE =	10048. VEH-MI.	11375. PASS-MI.	115078. VEH-MI.	130268. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		38. MPH.	
AVERAGE DENSITY =	57. VPMPL		40. VPMPL	
TOTAL FUEL =	756. GALLONS		7678. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		559. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	914.	218.40	82.72	1.27	7.81	1.36	10.45

```
QUEUE SPLIT SECTION  7
QUEUE CLEAR SECTION   5 FT=   277
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2852.	176.	2852.	2852.	176.	2852.	4400.	0.	0.	0.	.65	62.	23.0	C	13.6	4.8
2	2	1970.	0.	0.	2676.	0.	0.	2676.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
3	2	1830.	356.	240.	3032.	356.	240.	3032.	4100.	0.	0.	0.	.74	62.	24.5	C	13.6	4.8
4	2	2010.	0.	0.	2792.	0.	0.	2792.	4100.	0.	0.	0.	.68	56.	25.0	C	13.5	4.8
5	2	2445.	908.	324.	3700.	908.	324.	3814.	3954.	146.	0.	-114.	.96	39.	49.3	F	14.3	2.8
6	2	1890.	0.	0.	3376.	0.	0.	3528.	4100.	0.	* 1284.	-38.	.86	26.	66.8	F	12.8	3.9
7	2	5320.	572.	704.	3948.	572.	724.	4100.	4100.	0.	** 5320.	-38.	1.00	40.	51.3	F	14.2	2.6
8	2	880.	0.	0.	3244.	0.	0.	3399.	3900.	0.	* 494.	-23.	.87	28.	60.1	F	14.1	3.8
9	2	1125.	164.	0.	3408.	164.	0.	3563.	3900.	0.	** 1125.	-23.	.91	28.	62.5	F	20.2	3.4
10	3	6320.	396.	420.	3804.	396.	435.	3959.	5595.	5.	** 6320.	-23.	.71	14.	91.2	F	15.2	5.8
11	2	2050.	0.	0.	3384.	0.	0.	3524.	4100.	0.	** 2050.	-23.	.86	24.	74.8	F	18.8	4.0
12	3	2560.	588.	0.	3972.	588.	0.	4112.	5540.	60.	** 2560.	-23.	.74	16.	85.0	F	13.4	5.5
13	3	1400.	0.	396.	3972.	0.	408.	4112.	5540.	60.	** 1400.	-23.	.74	16.	85.0	F	25.8	5.5
14	2	1320.	0.	0.	3576.	0.	0.	3705.	4400.	0.	** 1320.	-23.	.84	22.	83.4	F	13.2	4.2
15	3	540.	932.	1292.	4508.	932.	1322.	4637.	4936.	664.	** 540.	-23.	.94	31.	49.3	F	13.3	3.1
16	2	1230.	0.	0.	3216.	0.	0.	3315.	4400.	0.	** 1230.	-23.	.75	17.	99.3	F	16.3	5.3
17	2	890.	556.	0.	3772.	556.	0.	3871.	4399.	1.	** 890.	-23.	.88	25.	76.6	F	19.4	3.7
18	3	4840.	184.	656.	3956.	184.	669.	4055.	5553.	47.	** 4840.	-23.	.73	16.	87.1	F	13.3	5.6
19	2	530.	0.	0.	3300.	0.	0.	3386.	3800.	0.	** 530.	-23.	.89	26.	64.4	F	19.6	3.6
20	2	1040.	748.	0.	4048.	748.	0.	4134.	4364.	36.	** 1040.	-23.	.95	32.	64.0	F	21.1	3.1
21	3	2810.	880.	1160.	4928.	880.	1180.	5014.	5014.	586.	0.	0.	1.00	52.	32.4	E	30.3	2.3
22	2	1850.	0.	0.	3768.	0.	0.	3834.	4400.	0.	0.	0.	.87	59.	32.5	D	18.2	3.4
23	3	2390.	312.	196.	4080.	312.	199.	4146.	5525.	75.	0.	0.	.75	62.	22.3	C	24.1	4.8
24	3	960.	0.	1720.	3884.	0.	1500.	3947.	5577.	23.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2164.	2164.	0.	2199.	2199.	3600.	0.	0.	0.	.61	62.	17.7	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 28.	51.9		15.5	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	379. VEH-HRS	429. PASS-HRS	3434. VEH-HRS	3887. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	236. VEH-HRS	267. PASS-HRS	1718. VEH-HRS	1945. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	615. VEH-HRS	697. PASS-HRS	5184. VEH-HRS	5869. PASS-HRS
TOTAL TRAV DISTANCE =	10656. VEH-MI.	12063. PASS-MI.	125734. VEH-MI.	142331. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		37. MPH.	
AVERAGE DENSITY =	52. VPMPL		41. VPMPL	
TOTAL FUEL =	775. GALLONS		8453. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		617. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	976.	236.21	89.47	1.37	8.45	1.48	11.30

QUEUE COLLISION IN SECTION 7 T2 =0.057

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3124.	148.	3124.	3124.	148.	3124.	4400.	0.	0.	0.	.71	62.	25.2	C	13.6	4.7
2	2	1970.	0.	0.	2976.	0.	0.	2976.	4100.	0.	0.	0.	.73	62.	24.0	C	13.6	4.8
3	2	1830.	304.	100.	3280.	304.	100.	3280.	4100.	0.	0.	0.	.80	61.	26.9	D	13.8	4.2
4	2	2010.	0.	0.	3180.	0.	0.	2958.	4100.	0.	* 315.	222.	.72	59.	24.9	F	13.7	4.5
5	2	2445.	684.	320.	3864.	684.	320.	3642.	4021.	79.	** 2445.	222.	.91	39.	46.1	F	14.4	2.8
6	2	1890.	0.	0.	3544.	0.	0.	3322.	4100.	0.	** 1890.	222.	.81	22.	73.9	F	12.3	4.4
7	2	5320.	660.	744.	4204.	660.	726.	3982.	4100.	0.	** 5320.	118.	.97	38.	52.0	F	14.4	2.7
8	2	880.	0.	0.	3460.	0.	0.	3256.	3900.	0.	** 880.	118.	.83	22.	72.6	F	13.2	4.3
9	2	1125.	188.	0.	3648.	188.	0.	3444.	3900.	0.	** 1125.	118.	.88	26.	67.4	F	19.4	3.7
10	3	6320.	420.	352.	4068.	420.	345.	3864.	5594.	6.	** 6320.	118.	.69	14.	93.7	F	14.7	6.0
11	2	2050.	0.	0.	3716.	0.	0.	3519.	4100.	0.	** 2050.	118.	.86	23.	75.0	F	18.8	4.0
12	3	2560.	652.	0.	4368.	652.	0.	4171.	5536.	64.	** 2560.	118.	.75	17.	83.3	F	13.5	5.3
13	3	1400.	0.	420.	4368.	0.	412.	4171.	5536.	64.	** 1400.	118.	.75	17.	83.3	F	26.6	5.3
14	2	1320.	0.	0.	3948.	0.	0.	3759.	4400.	0.	** 1320.	118.	.85	23.	81.2	F	13.4	4.1
15	3	540.	820.	1204.	4768.	820.	1186.	4579.	4988.	612.	** 540.	118.	.92	29.	52.7	F	13.0	3.3
16	2	1230.	0.	0.	3564.	0.	0.	3393.	4400.	0.	** 1230.	118.	.77	18.	96.1	F	16.7	5.1
17	2	890.	496.	0.	4060.	496.	0.	3889.	4397.	3.	** 890.	118.	.88	26.	75.7	F	19.5	3.7
18	3	4840.	180.	628.	4240.	180.	620.	4069.	5554.	46.	** 4840.	118.	.73	16.	86.7	F	13.3	5.6
19	2	530.	0.	0.	3612.	0.	0.	3449.	3800.	0.	** 530.	118.	.91	28.	61.9	F	20.0	3.5
20	2	1040.	648.	0.	4260.	648.	0.	4097.	4367.	33.	** 1040.	118.	.94	31.	65.6	F	20.9	3.1
21	3	2810.	888.	1212.	5148.	888.	1174.	4985.	4985.	615.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3936.	0.	0.	3811.	4400.	0.	0.	0.	.87	59.	32.2	D	18.2	3.4
23	3	2390.	276.	140.	4212.	276.	136.	4087.	5529.	71.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1868.	4072.	0.	1500.	3951.	5579.	21.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2204.	2204.	0.	2139.	2139.	3600.	0.	0.	0.	.59	62.	17.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 28.	52.9		15.5	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	387. VEH-HRS	438. PASS-HRS	3820. VEH-HRS	4325. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	254. VEH-HRS	287. PASS-HRS	1972. VEH-HRS	2232. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	640. VEH-HRS	725. PASS-HRS	5825. VEH-HRS	6594. PASS-HRS
TOTAL TRAV DISTANCE =	10834. VEH-MI.	12264. PASS-MI.	136568. VEH-MI.	154595. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		36. MPH.	
AVERAGE DENSITY =	53. VPMPL		42. VPMPL	
TOTAL FUEL =	797. GALLONS		9249. GALLONS	
TOTAL EMISSIONS =	60. KILOGRAMS		677. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1054.	253.72	96.10	1.48	9.08	1.58	12.14

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2984.	160.	2984.	2984.	160.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	13.6	4.8
2	2	1970.	0.	0.	2824.	0.	0.	2824.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
3	2	1830.	300.	108.	3124.	300.	108.	2844.	4100.	0.	* 580.	280.	.69	55.	25.9	F	13.6	4.6
4	2	2010.	0.	0.	3016.	0.	0.	2736.	4100.	0.	** 2010.	280.	.67	18.	78.0	F	11.4	5.7
5	2	2445.	672.	268.	3688.	672.	268.	3408.	4056.	44.	** 2445.	280.	.84	22.	77.2	F	12.3	4.2
6	2	1890.	0.	0.	3420.	0.	0.	3140.	4100.	0.	** 1890.	280.	.77	17.	90.5	F	11.5	5.2
7	2	5320.	616.	768.	4036.	616.	768.	3756.	4100.	0.	** 5320.	280.	.92	29.	65.3	F	13.5	3.4
8	2	880.	0.	0.	3268.	0.	0.	2988.	3900.	0.	** 880.	280.	.77	17.	86.0	F	12.3	5.2
9	2	1125.	212.	0.	3480.	212.	0.	3200.	3900.	0.	** 1125.	280.	.82	21.	77.4	F	18.0	4.5
10	3	6320.	504.	280.	3984.	504.	280.	3704.	5595.	5.	** 6320.	280.	.66	13.	98.1	F	14.0	6.3
11	2	2050.	0.	0.	3704.	0.	0.	3424.	4100.	0.	** 2050.	280.	.84	22.	78.9	F	18.3	4.3
12	3	2560.	636.	0.	4340.	636.	0.	4060.	5548.	52.	** 2560.	280.	.73	16.	86.8	F	13.3	5.6
13	3	1400.	0.	364.	4340.	0.	364.	4060.	5548.	52.	** 1400.	280.	.73	16.	86.8	F	25.2	5.6
14	2	1320.	0.	0.	3976.	0.	0.	3696.	4400.	0.	** 1320.	280.	.84	22.	83.8	F	13.2	4.2
15	3	540.	836.	1304.	4812.	836.	1304.	4532.	4992.	608.	** 540.	280.	.91	28.	54.1	F	12.8	3.5
16	2	1230.	0.	0.	3508.	0.	0.	3228.	4400.	0.	** 1230.	280.	.73	16.	102.9	F	15.9	5.6
17	2	890.	508.	0.	4016.	508.	0.	3736.	4398.	2.	** 890.	280.	.85	23.	82.0	F	18.6	4.1
18	3	4840.	192.	540.	4208.	192.	540.	3928.	5559.	41.	** 4840.	280.	.71	14.	90.8	F	12.9	5.9
19	2	530.	0.	0.	3668.	0.	0.	3388.	3800.	0.	** 530.	280.	.89	26.	64.3	F	19.6	3.6
20	2	1040.	656.	0.	4324.	656.	0.	4044.	4364.	36.	** 1040.	280.	.93	30.	67.6	F	20.6	3.2
21	3	2810.	920.	1240.	5244.	920.	1174.	4964.	4964.	636.	0.	0.	1.00	52.	32.1	E	30.3	2.3
22	2	1850.	0.	0.	4004.	0.	0.	3790.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	312.	180.	4316.	312.	171.	4102.	5522.	78.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	1752.	4136.	0.	1500.	3931.	5574.	26.	0.	0.	.71	62.	21.1	C	17.2	4.8
25	2	1400.	0.	2384.	2384.	0.	2266.	2266.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 24. 59.0 14.9 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	425. VEH-HRS	482. PASS-HRS	4246. VEH-HRS	4806. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	269. VEH-HRS	304. PASS-HRS	2241. VEH-HRS	2536. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	694. VEH-HRS	786. PASS-HRS	6519. VEH-HRS	7380. PASS-HRS
TOTAL TRAV DISTANCE =	10405. VEH-MI.	11779. PASS-MI.	146973. VEH-MI.	166373. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		35. MPH.	
AVERAGE DENSITY =	59. VPMPL		43. VPMPL	
TOTAL FUEL =	799. GALLONS		10048. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		739. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1095.	268.65	101.75	1.56	9.61	1.68	12.85

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2768.	164.	2768.	2768.	164.	2768.	4400.	0.	0.	0.	.63	62.	22.3	C	13.6	4.8
2	2	1970.	0.	0.	2604.	0.	0.	2604.	4100.	0.	0.	0.	.64	62.	21.0	C	13.6	4.8
3	2	1830.	348.	112.	2952.	348.	112.	2843.	4100.	0.	* 1490.	109.	.69	21.	67.2	F	11.9	5.5
4	2	2010.	0.	0.	2840.	0.	0.	2731.	4100.	0.	** 2010.	109.	.67	13.	107.2	F	10.4	6.2
5	2	2445.	692.	428.	3532.	692.	428.	3423.	3962.	138.	** 2445.	109.	.86	24.	71.5	F	12.7	3.9
6	2	1890.	0.	0.	3104.	0.	0.	2995.	4100.	0.	** 1890.	109.	.73	16.	96.4	F	11.3	5.6
7	2	5320.	596.	592.	3700.	596.	592.	3591.	4100.	0.	** 5320.	109.	.88	25.	72.0	F	12.9	3.8
8	2	880.	0.	0.	3108.	0.	0.	2999.	3900.	0.	** 880.	109.	.77	18.	85.5	F	12.3	5.1
9	2	1125.	228.	0.	3336.	228.	0.	3227.	3900.	0.	** 1125.	109.	.83	21.	76.2	F	18.1	4.4
10	3	6320.	564.	256.	3900.	564.	256.	3791.	5595.	5.	** 6320.	109.	.68	13.	95.8	F	14.4	6.1
11	2	2050.	0.	0.	3644.	0.	0.	3535.	4100.	0.	** 2050.	109.	.86	24.	74.3	F	18.9	4.0
12	3	2560.	556.	0.	4200.	556.	0.	4091.	5540.	60.	** 2560.	109.	.74	16.	85.6	F	13.3	5.5
13	3	1400.	0.	440.	4200.	0.	440.	4091.	5540.	60.	** 1400.	109.	.74	16.	85.6	F	25.6	5.5
14	2	1320.	0.	0.	3760.	0.	0.	3651.	4400.	0.	** 1320.	109.	.83	21.	85.6	F	13.0	4.4
15	3	540.	856.	1368.	4616.	856.	1368.	4507.	5000.	600.	** 540.	109.	.90	27.	55.1	F	12.7	3.5
16	2	1230.	0.	0.	3248.	0.	0.	3139.	4400.	0.	** 1230.	109.	.71	15.	106.5	F	15.4	5.8
17	2	890.	556.	0.	3804.	556.	0.	3695.	4399.	1.	** 890.	109.	.84	22.	83.7	F	18.4	4.2
18	3	4840.	240.	624.	4044.	240.	624.	3935.	5557.	43.	** 4840.	109.	.71	14.	90.5	F	12.9	5.8
19	2	530.	0.	0.	3420.	0.	0.	3311.	3800.	0.	** 530.	109.	.87	25.	67.5	F	19.2	3.8
20	2	1040.	692.	0.	4112.	692.	0.	4003.	4364.	36.	** 1040.	109.	.92	29.	69.3	F	20.3	3.4
21	3	2810.	928.	1308.	5040.	928.	1280.	4931.	4931.	669.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	3732.	0.	0.	3652.	4400.	0.	0.	0.	.83	60.	30.3	D	17.9	3.8
23	3	2390.	276.	180.	4008.	276.	176.	3928.	5538.	62.	0.	0.	.71	62.	21.1	C	24.1	4.8
24	3	960.	0.	1700.	3828.	0.	1500.	3751.	5582.	18.	0.	0.	.67	62.	20.2	C	17.2	4.8
25	2	1400.	0.	2128.	2128.	0.	2085.	2085.	3600.	0.	0.	0.	.58	62.	16.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 23.	60.8		14.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	434. VEH-HRS	492. PASS-HRS	4680. VEH-HRS	5298. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	279. VEH-HRS	316. PASS-HRS	2520. VEH-HRS	2852. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	713. VEH-HRS	807. PASS-HRS	7232. VEH-HRS	8187. PASS-HRS
TOTAL TRAV DISTANCE =	10148. VEH-MI.	11487. PASS-MI.	157121. VEH-MI.	177861. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		34. MPH.	
AVERAGE DENSITY =	61. VPMPL		44. VPMPL	
TOTAL FUEL =	790. GALLONS		10838. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		800. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1137.	279.00	105.67	1.62	9.98	1.74	13.35

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2336.	104.	2336.	2336.	104.	2336.	4400.	0.	0.	0.	.53	62.	18.8	C	13.6	4.8
2	2	1970.	0.	0.	2232.	0.	0.	2232.	4100.	0.	0.	0.	.54	62.	18.0	C	13.6	4.8
3	2	1830.	308.	124.	2540.	308.	124.	2540.	4100.	0.	0.	0.	.62	44.	28.6	D	13.2	4.9
4	2	2010.	0.	0.	2416.	0.	0.	2416.	4100.	0.	0.	0.	.59	22.	54.1	F	12.1	5.3
5	2	2445.	568.	484.	2984.	568.	484.	3526.	4002.	98.	* 416.	-542.	.88	27.	65.7	F	13.0	3.8
6	2	1890.	0.	0.	2500.	0.	0.	3042.	4100.	0.	** 1890.	-542.	.74	16.	94.5	F	11.4	5.5
7	2	5320.	556.	536.	3056.	556.	536.	3598.	4100.	0.	** 5320.	-542.	.88	25.	71.8	F	12.9	3.8
8	2	880.	0.	0.	2520.	0.	0.	3062.	3900.	0.	** 880.	-542.	.79	18.	83.0	F	12.5	4.9
9	2	1125.	192.	0.	2712.	192.	0.	3254.	3900.	0.	** 1125.	-542.	.83	22.	75.1	F	18.2	4.3
10	3	6320.	500.	256.	3212.	500.	256.	3754.	5599.	1.	** 6320.	-542.	.67	13.	96.9	F	14.2	6.2
11	2	2050.	0.	0.	2956.	0.	0.	3498.	4100.	0.	** 2050.	-542.	.85	23.	75.8	F	18.7	4.1
12	3	2560.	560.	0.	3516.	560.	0.	4058.	5542.	58.	** 2560.	-542.	.73	16.	86.6	F	13.3	5.6
13	3	1400.	0.	400.	3516.	0.	400.	4058.	5542.	58.	** 1400.	-542.	.73	16.	86.6	F	25.2	5.6
14	2	1320.	0.	0.	3116.	0.	0.	3658.	4400.	0.	** 1320.	-542.	.83	21.	85.3	F	13.0	4.3
15	3	540.	896.	1256.	4012.	896.	1256.	4554.	4984.	616.	** 540.	-542.	.91	29.	53.2	F	12.9	3.4
16	2	1230.	0.	0.	2756.	0.	0.	3298.	4400.	0.	** 1230.	-542.	.75	16.	100.0	F	16.2	5.4
17	2	890.	644.	0.	3400.	644.	0.	3942.	4400.	0.	** 890.	-542.	.90	27.	73.7	F	19.7	3.6
18	3	4840.	276.	664.	3676.	276.	664.	4218.	5566.	34.	** 4840.	-542.	.76	17.	83.1	F	13.5	5.3
19	2	530.	0.	0.	3012.	0.	0.	3554.	3800.	0.	** 530.	-542.	.94	31.	57.6	F	20.8	3.2
20	2	1040.	608.	0.	3620.	608.	0.	4162.	4376.	24.	** 1040.	-542.	.95	33.	63.4	F	21.2	3.0
21	3	2810.	892.	1208.	4512.	892.	1353.	5054.	5054.	546.	0.	0.	1.00	52.	32.7	E	30.3	2.3
22	2	1850.	0.	0.	3304.	0.	0.	3701.	4400.	0.	0.	0.	.84	60.	30.8	D	18.0	3.6
23	3	2390.	308.	176.	3612.	308.	195.	4009.	5543.	57.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	1556.	3436.	0.	1500.	3814.	5589.	11.	0.	0.	.68	62.	20.5	C	17.2	4.8
25	2	1400.	0.	1880.	1880.	0.	2087.	2087.	3600.	0.	0.	0.	.58	62.	16.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 25.	56.0		15.1	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	406. VEH-HRS	460. PASS-HRS	5086. VEH-HRS	5758. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	291. VEH-HRS	330. PASS-HRS	2811. VEH-HRS	3182. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	697. VEH-HRS	789. PASS-HRS	7930. VEH-HRS	8976. PASS-HRS
TOTAL TRAV DISTANCE =	9948. VEH-MI.	11261. PASS-MI.	167069. VEH-MI.	189122. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		33. MPH.	
AVERAGE DENSITY =	56. VPMPL		45. VPMPL	
TOTAL FUEL =	767. GALLONS		11605. GALLONS	
TOTAL EMISSIONS =	60. KILOGRAMS		860. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1194.	291.28	110.32	1.69	10.42	1.82	13.94

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2244.	80.	2244.	2244.	80.	2244.	4400.	0.	0.	0.	.51	62.	18.1	C	13.6	4.8
2	2	1970.	0.	0.	2164.	0.	0.	2164.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
3	2	1830.	332.	140.	2496.	332.	140.	2496.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
4	2	2010.	0.	0.	2356.	0.	0.	2356.	4100.	0.	0.	0.	.57	62.	19.0	C	13.6	4.8
5	2	2445.	452.	352.	2808.	452.	352.	2808.	4100.	0.	0.	0.	.68	60.	23.3	C	13.5	4.8
6	2	1890.	0.	0.	2456.	0.	0.	2456.	4100.	0.	0.	0.	.60	21.	57.3	F	11.9	5.5
7	2	5320.	576.	496.	3032.	576.	496.	3369.	4100.	0.	* 4719.	-337.	.82	21.	80.7	F	12.1	4.5
8	2	880.	0.	0.	2536.	0.	0.	2873.	3900.	0.	** 880.	-337.	.74	16.	90.7	F	12.1	5.5
9	2	1125.	192.	0.	2728.	192.	0.	3065.	3900.	0.	** 1125.	-337.	.79	18.	82.9	F	17.1	4.9
10	3	6320.	552.	304.	3280.	552.	304.	3617.	5600.	0.	** 6320.	-337.	.65	12.	100.7	F	13.6	6.4
11	2	2050.	0.	0.	2976.	0.	0.	3313.	4100.	0.	** 2050.	-337.	.81	20.	83.4	F	17.7	4.6
12	3	2560.	540.	0.	3516.	540.	0.	3853.	5546.	54.	** 2560.	-337.	.69	14.	92.3	F	12.6	6.0
13	3	1400.	0.	388.	3516.	0.	388.	3853.	5546.	54.	** 1400.	-337.	.69	14.	92.3	F	22.7	6.0
14	2	1320.	0.	0.	3128.	0.	0.	3465.	4400.	0.	** 1320.	-337.	.79	19.	93.2	F	12.5	4.9
15	3	540.	880.	1124.	4008.	880.	1124.	4345.	4968.	632.	** 540.	-337.	.87	25.	58.4	F	12.3	3.8
16	2	1230.	0.	0.	2884.	0.	0.	3221.	4400.	0.	** 1230.	-337.	.73	16.	103.2	F	15.9	5.6
17	2	890.	660.	0.	3544.	660.	0.	3881.	4400.	0.	** 890.	-337.	.88	25.	76.2	F	19.4	3.7
18	3	4840.	244.	604.	3788.	244.	604.	4125.	5560.	40.	** 4840.	-337.	.74	16.	85.4	F	13.4	5.5
19	2	530.	0.	0.	3184.	0.	0.	3521.	3800.	0.	** 530.	-337.	.93	30.	58.9	F	20.6	3.2
20	2	1040.	716.	0.	3900.	716.	0.	4237.	4368.	32.	** 1040.	-337.	.97	35.	60.0	F	21.7	2.8
21	3	2810.	820.	1184.	4720.	820.	1269.	5057.	5057.	543.	0.	0.	1.00	52.	32.7	E	30.3	2.3
22	2	1850.	0.	0.	3536.	0.	0.	3788.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	276.	120.	3812.	276.	128.	4064.	5543.	57.	0.	0.	.73	62.	21.9	C	24.1	4.8
24	3	960.	0.	1816.	3692.	0.	1500.	3936.	5587.	13.	0.	0.	.70	62.	21.2	C	17.2	4.8
25	2	1400.	0.	1876.	1876.	0.	2000.	2000.	3600.	0.	0.	0.	.56	62.	16.1	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 24.	54.2		15.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	398. VEH-HRS	450. PASS-HRS	5484. VEH-HRS	6208. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	312. VEH-HRS	353. PASS-HRS	3123. VEH-HRS	3535. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	710. VEH-HRS	803. PASS-HRS	8639. VEH-HRS	9780. PASS-HRS
TOTAL TRAV DISTANCE =	9528. VEH-MI.	10785. PASS-MI.	176597. VEH-MI.	199907. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		32. MPH.	
AVERAGE DENSITY =	54. VPMPL		45. VPMPL	
TOTAL FUEL =	754. GALLONS		12359. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		921. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1303.	312.02	118.18	1.82	11.16	1.95	14.93

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2028.	88.	2028.	2028.	88.	2028.	4400.	0.	0.	0.	.46	62.	16.4	B	13.6	4.8
2	2	1970.	0.	0.	1940.	0.	0.	1940.	4100.	0.	0.	0.	.47	62.	15.6	B	13.6	4.8
3	2	1830.	336.	56.	2276.	336.	56.	2276.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
4	2	2010.	0.	0.	2220.	0.	0.	2220.	4100.	0.	0.	0.	.54	62.	17.9	B	13.6	4.8
5	2	2445.	632.	324.	2852.	632.	324.	2852.	4075.	25.	0.	0.	.70	62.	23.0	C	13.6	4.8
6	2	1890.	0.	0.	2528.	0.	0.	2528.	4100.	0.	0.	0.	.62	62.	20.4	C	13.6	4.8
7	2	5320.	536.	616.	3064.	536.	616.	3445.	4100.	0.	0.	-381.	.84	33.	51.5	F	12.9	4.5
8	2	880.	0.	0.	2448.	0.	0.	2829.	3900.	0.	** 880.	-381.	.73	15.	92.5	F	12.0	5.7
9	2	1125.	192.	0.	2640.	192.	0.	3021.	3900.	0.	** 1125.	-381.	.77	18.	84.7	F	16.8	5.1
10	3	6320.	600.	296.	3240.	600.	296.	3621.	5600.	0.	** 6320.	-381.	.65	12.	100.6	F	13.6	6.4
11	2	2050.	0.	0.	2944.	0.	0.	3325.	4100.	0.	** 2050.	-381.	.81	20.	82.9	F	17.8	4.6
12	3	2560.	560.	0.	3504.	560.	0.	3885.	5542.	58.	** 2560.	-381.	.70	14.	91.3	F	12.8	5.9
13	3	1400.	0.	396.	3504.	0.	396.	3885.	5542.	58.	** 1400.	-381.	.70	14.	91.3	F	23.1	5.9
14	2	1320.	0.	0.	3108.	0.	0.	3489.	4400.	0.	** 1320.	-381.	.79	19.	92.2	F	12.5	4.8
15	3	540.	792.	1000.	3900.	792.	1000.	4281.	5012.	588.	** 540.	-381.	.85	23.	61.7	F	12.0	4.1
16	2	1230.	0.	0.	2900.	0.	0.	3281.	4400.	0.	** 1230.	-381.	.75	16.	100.7	F	16.1	5.4
17	2	890.	660.	0.	3560.	660.	0.	3941.	4400.	0.	** 890.	-381.	.90	27.	73.8	F	19.7	3.6
18	3	4840.	244.	624.	3804.	244.	624.	4185.	5559.	41.	** 4840.	-381.	.75	17.	83.7	F	13.5	5.3
19	2	530.	0.	0.	3180.	0.	0.	3561.	3800.	0.	** 530.	-381.	.94	31.	57.3	F	20.8	3.1
20	2	1040.	688.	0.	3868.	688.	0.	4249.	4369.	31.	** 1040.	-381.	.97	36.	59.5	F	21.7	2.8
21	3	2810.	836.	1120.	4704.	836.	1211.	5085.	5085.	515.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	3584.	0.	0.	3874.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	292.	120.	3876.	292.	129.	4166.	5537.	63.	0.	0.	.75	62.	22.4	C	24.1	4.8
24	3	960.	0.	1780.	3756.	0.	1500.	4037.	5582.	18.	0.	0.	.72	62.	21.7	C	17.2	4.8
25	2	1400.	0.	1976.	1976.	0.	2124.	2124.	3600.	0.	0.	0.	.59	62.	17.1	B	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 25. 49.9 15.3 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	370. VEH-HRS	418. PASS-HRS	5853. VEH-HRS	6626. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	339. VEH-HRS	383. PASS-HRS	3461. VEH-HRS	3918. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	708. VEH-HRS	802. PASS-HRS	9347. VEH-HRS	10581. PASS-HRS
TOTAL TRAV DISTANCE =	9366. VEH-MI.	10603. PASS-MI.	185963. VEH-MI.	210510. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		32. MPH.	
AVERAGE DENSITY =	50. VPMPL		46. VPMPL	
TOTAL FUEL =	742. GALLONS		13101. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		982. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1406.	338.56	128.23	1.97	12.11	2.11	16.20

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2140.	104.	2140.	2140.	104.	2140.	4400.	0.	0.	0.	.49	62.	17.3	B	13.6	4.8
2	2	1970.	0.	0.	2036.	0.	0.	2036.	4100.	0.	0.	0.	.50	62.	16.4	B	13.6	4.8
3	2	1830.	408.	72.	2444.	408.	72.	2444.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
4	2	2010.	0.	0.	2372.	0.	0.	2372.	4100.	0.	0.	0.	.58	62.	19.1	C	13.6	4.8
5	2	2445.	524.	304.	2896.	524.	304.	2896.	4100.	0.	0.	0.	.71	62.	23.4	C	13.6	4.8
6	2	1890.	0.	0.	2592.	0.	0.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
7	2	5320.	608.	676.	3200.	608.	676.	3200.	4100.	0.	0.	0.	.78	61.	26.1	D	13.7	4.4
8	2	880.	0.	0.	2524.	0.	0.	2524.	3900.	0.	0.	0.	.65	46.	27.2	D	14.5	4.9
9	2	1125.	200.	0.	2724.	200.	0.	2724.	3900.	0.	0.	0.	.70	35.	39.3	E	19.0	4.7
10	3	6320.	504.	324.	3228.	504.	324.	3645.	5600.	0.	* 5102.	-417.	.65	13.	96.1	F	13.9	6.3
11	2	2050.	0.	0.	2904.	0.	0.	3321.	4100.	0.	** 2050.	-417.	.81	20.	83.1	F	17.8	4.6
12	3	2560.	720.	0.	3624.	720.	0.	4041.	5528.	72.	** 2560.	-417.	.73	16.	86.6	F	13.3	5.6
13	3	1400.	0.	396.	3624.	0.	396.	4041.	5528.	72.	** 1400.	-417.	.73	16.	86.6	F	25.1	5.6
14	2	1320.	0.	0.	3228.	0.	0.	3645.	4400.	0.	** 1320.	-417.	.83	21.	85.8	F	13.0	4.4
15	3	540.	768.	1208.	3996.	768.	1208.	4413.	5064.	536.	** 540.	-417.	.87	25.	59.9	F	12.3	3.8
16	2	1230.	0.	0.	2788.	0.	0.	3205.	4400.	0.	** 1230.	-417.	.73	15.	103.8	F	15.8	5.6
17	2	890.	660.	0.	3448.	660.	0.	3865.	4400.	0.	** 890.	-417.	.88	25.	76.8	F	19.3	3.8
18	3	4840.	264.	668.	3712.	264.	668.	4129.	5559.	41.	** 4840.	-417.	.74	16.	85.3	F	13.4	5.5
19	2	530.	0.	0.	3044.	0.	0.	3461.	3800.	0.	** 530.	-417.	.91	28.	61.3	F	20.1	3.4
20	2	1040.	660.	0.	3704.	660.	0.	4121.	4372.	28.	** 1040.	-417.	.94	32.	64.9	F	21.0	3.1
21	3	2810.	908.	1192.	4612.	908.	1300.	5029.	5029.	571.	0.	0.	1.00	52.	32.5	E	30.3	2.3
22	2	1850.	0.	0.	3420.	0.	0.	3729.	4400.	0.	0.	0.	.85	60.	31.2	D	18.0	3.6
23	3	2390.	264.	160.	3684.	264.	174.	3993.	5548.	52.	0.	0.	.72	62.	21.5	C	24.1	4.8
24	3	960.	0.	1552.	3524.	0.	1500.	3820.	5587.	13.	0.	0.	.68	62.	20.5	C	17.2	4.8
25	2	1400.	0.	1972.	1972.	0.	2138.	2138.	3600.	0.	0.	0.	.59	62.	17.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 27.	45.6		15.4	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	344. VEH-HRS	389. PASS-HRS	6197. VEH-HRS	7015. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	357. VEH-HRS	404. PASS-HRS	3819. VEH-HRS	4323. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	701. VEH-HRS	793. PASS-HRS	10048. VEH-HRS	11374. PASS-HRS
TOTAL TRAV DISTANCE =	9421. VEH-MI.	10665. PASS-MI.	195384. VEH-MI.	221175. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		32. MPH.	
AVERAGE DENSITY =	46. VPMPL		46. VPMPL	
TOTAL FUEL =	745. GALLONS		13846. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		1044. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1451.	357.17	135.28	2.08	12.78	2.23	17.09

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1664.	84.	1664.	1664.	84.	1664.	4400.	0.	0.	0.	.38	62.	13.4	B	13.6	4.8
2	2	1970.	0.	0.	1580.	0.	0.	1580.	4100.	0.	0.	0.	.39	62.	12.7	B	13.6	4.8
3	2	1830.	380.	64.	1960.	380.	64.	1960.	4100.	0.	0.	0.	.48	62.	15.8	B	13.6	4.8
4	2	2010.	0.	0.	1896.	0.	0.	1896.	4100.	0.	0.	0.	.46	62.	15.3	B	13.6	4.8
5	2	2445.	528.	296.	2424.	528.	296.	2424.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
6	2	1890.	0.	0.	2128.	0.	0.	2128.	4100.	0.	0.	0.	.52	62.	17.2	B	13.6	4.8
7	2	5320.	644.	552.	2772.	644.	552.	2772.	4100.	0.	0.	0.	.68	62.	22.4	C	13.6	4.8
8	2	880.	0.	0.	2220.	0.	0.	2220.	3900.	0.	0.	0.	.57	62.	17.9	B	14.9	4.8
9	2	1125.	228.	0.	2448.	228.	0.	2448.	3900.	0.	0.	0.	.63	62.	19.7	C	19.9	4.8
10	3	6320.	604.	316.	3052.	604.	316.	3687.	5600.	0.	* 1712.	-635.	.66	19.	66.0	F	15.9	5.7
11	2	2050.	0.	0.	2736.	0.	0.	3371.	4100.	0.	** 2050.	-635.	.82	21.	81.0	F	18.0	4.5
12	3	2560.	912.	0.	3648.	912.	0.	4283.	5518.	82.	** 2560.	-635.	.78	18.	79.6	F	13.7	5.1
13	3	1400.	0.	380.	3648.	0.	380.	4283.	5518.	82.	** 1400.	-635.	.78	18.	79.6	F	28.3	5.1
14	2	1320.	0.	0.	3268.	0.	0.	3903.	4400.	0.	** 1320.	-635.	.89	26.	75.3	F	13.9	3.7
15	3	540.	772.	1196.	4040.	772.	1196.	4675.	5056.	544.	** 540.	-635.	.92	30.	52.5	F	13.1	3.3
16	2	1230.	0.	0.	2844.	0.	0.	3479.	4400.	0.	** 1230.	-635.	.79	19.	92.6	F	17.2	4.9
17	2	890.	644.	0.	3488.	644.	0.	4123.	4400.	0.	** 890.	-635.	.94	31.	66.3	F	20.8	3.1
18	3	4840.	276.	624.	3764.	276.	624.	4399.	5559.	41.	** 4840.	-635.	.79	19.	77.9	F	13.9	4.9
19	2	530.	0.	0.	3140.	0.	0.	3775.	3800.	0.	** 530.	-635.	.99	39.	48.5	F	22.1	2.6
20	2	1040.	536.	0.	3676.	536.	0.	4311.	4379.	21.	** 1040.	-635.	.98	37.	57.5	F	21.9	2.7
21	3	2810.	852.	1016.	4528.	852.	1158.	5163.	5163.	437.	0.	0.	1.00	52.	33.4	E	30.3	2.3
22	2	1850.	0.	0.	3512.	0.	0.	4004.	4400.	0.	0.	0.	.91	57.	34.9	D	18.7	3.0
23	3	2390.	296.	148.	3808.	296.	167.	4300.	5538.	62.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1388.	3660.	0.	1500.	4133.	5580.	20.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2272.	2272.	0.	2565.	2565.	3600.	0.	0.	0.	.71	62.	20.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 31.	38.7		16.2	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	287. VEH-HRS	324. PASS-HRS	6483. VEH-HRS	7339. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	365. VEH-HRS	413. PASS-HRS	4184. VEH-HRS	4736. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	652. VEH-HRS	738. PASS-HRS	10700. VEH-HRS	12112. PASS-HRS
TOTAL TRAV DISTANCE =	8989. VEH-MI.	10175. PASS-MI.	204373. VEH-MI.	231350. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		32. MPH.	
AVERAGE DENSITY =	39. VPMPL		45. VPMPL	
TOTAL FUEL =	693. GALLONS		14539. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		1102. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1468.	364.97	138.23	2.12	13.06	2.28	17.46

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2464.	64.	2464.	2464.	64.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
2	2	1970.	0.	0.	2400.	0.	0.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
3	2	1830.	400.	92.	2800.	400.	92.	2800.	4100.	0.	0.	0.	.68	62.	22.6	C	13.6	4.8
4	2	2010.	0.	0.	2708.	0.	0.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	13.6	4.8
5	2	2445.	536.	380.	3244.	536.	380.	3244.	4084.	16.	0.	0.	.79	61.	26.5	D	13.8	4.3
6	2	1890.	0.	0.	2864.	0.	0.	2864.	4100.	0.	0.	0.	.70	62.	23.1	C	13.6	4.8
7	2	5320.	612.	556.	3476.	612.	556.	3476.	4100.	0.	0.	0.	.85	60.	29.1	D	14.2	3.6
8	2	880.	0.	0.	2920.	0.	0.	2920.	3900.	0.	0.	0.	.75	62.	23.5	C	14.9	4.8
9	2	1125.	228.	0.	3148.	228.	0.	3148.	3900.	0.	0.	0.	.81	61.	25.9	C	20.5	4.1
10	3	6320.	568.	268.	3716.	568.	268.	3548.	5597.	3.	* 2610.	168.	.63	25.	46.7	F	17.2	5.4
11	2	2050.	0.	0.	3448.	0.	0.	3280.	4100.	0.	** 2050.	168.	.80	19.	84.8	F	17.5	4.7
12	3	2560.	796.	0.	4244.	796.	0.	4076.	5520.	80.	** 2560.	168.	.74	16.	85.3	F	13.3	5.5
13	3	1400.	0.	424.	4244.	0.	424.	4076.	5520.	80.	** 1400.	168.	.74	16.	85.3	F	25.6	5.5
14	2	1320.	0.	0.	3820.	0.	0.	3652.	4400.	0.	** 1320.	168.	.83	21.	85.6	F	13.0	4.4
15	3	540.	848.	1204.	4668.	848.	1204.	4500.	4972.	628.	** 540.	168.	.91	28.	54.3	F	12.8	3.5
16	2	1230.	0.	0.	3464.	0.	0.	3296.	4400.	0.	** 1230.	168.	.75	16.	100.1	F	16.2	5.4
17	2	890.	716.	0.	4180.	716.	0.	4012.	4396.	4.	** 890.	168.	.91	28.	70.7	F	20.2	3.4
18	3	4840.	264.	708.	4444.	264.	708.	4276.	5531.	69.	** 4840.	168.	.77	18.	80.3	F	13.7	5.1
19	2	530.	0.	0.	3736.	0.	0.	3568.	3800.	0.	** 530.	168.	.94	31.	57.0	F	20.9	3.1
20	2	1040.	560.	0.	4296.	560.	0.	4128.	4373.	27.	** 1040.	168.	.94	32.	64.7	F	21.0	3.1
21	3	2810.	892.	1072.	5188.	892.	1037.	5020.	5020.	580.	0.	0.	1.00	52.	32.5	E	30.3	2.3
22	2	1850.	0.	0.	4116.	0.	0.	3983.	4400.	0.	0.	0.	.91	58.	34.6	D	18.6	3.0
23	3	2390.	272.	128.	4388.	272.	124.	4255.	5532.	68.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1588.	4260.	0.	1500.	4130.	5576.	24.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2672.	2672.	0.	2591.	2591.	3600.	0.	0.	0.	.72	62.	20.9	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 33. 41.2 15.9 4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	303. VEH-HRS	343. PASS-HRS	6786. VEH-HRS	7682. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	368. VEH-HRS	417. PASS-HRS	4552. VEH-HRS	5153. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	671. VEH-HRS	760. PASS-HRS	11371. VEH-HRS	12872. PASS-HRS
TOTAL TRAV DISTANCE =	10038. VEH-MI.	11363. PASS-MI.	214411. VEH-MI.	242713. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		32. MPH.	
AVERAGE DENSITY =	41. VPMPL		45. VPMPL	
TOTAL FUEL =	770. GALLONS		15309. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		1165. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1478.	368.32	139.50	2.14	13.18	2.30	17.62

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2264.	48.	2264.	2264.	48.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	13.6	4.8
2	2	1970.	0.	0.	2216.	0.	0.	2216.	4100.	0.	0.	0.	.54	62.	17.9	B	13.6	4.8
3	2	1830.	476.	64.	2692.	476.	64.	2692.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
4	2	2010.	0.	0.	2628.	0.	0.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
5	2	2445.	612.	344.	3240.	612.	344.	3240.	4058.	42.	0.	0.	.80	61.	26.5	D	13.8	4.2
6	2	1890.	0.	0.	2896.	0.	0.	2896.	4100.	0.	0.	0.	.71	62.	23.4	C	13.6	4.8
7	2	5320.	580.	488.	3476.	580.	488.	3476.	4100.	0.	0.	0.	.85	60.	29.1	D	14.2	3.6
8	2	880.	0.	0.	2988.	0.	0.	2988.	3900.	0.	0.	0.	.77	62.	24.1	C	14.9	4.8
9	2	1125.	212.	0.	3200.	212.	0.	3200.	3900.	0.	0.	0.	.82	61.	26.4	D	20.6	3.9
10	3	6320.	528.	288.	3728.	528.	288.	3454.	5596.	4.	* 4029.	274.	.62	18.	62.3	F	15.7	5.7
11	2	2050.	0.	0.	3440.	0.	0.	3166.	4100.	0.	** 2050.	274.	.77	18.	89.4	F	16.7	5.1
12	3	2560.	624.	0.	4064.	624.	0.	3790.	5540.	60.	** 2560.	274.	.68	13.	93.8	F	12.5	6.1
13	3	1400.	0.	400.	4064.	0.	400.	3790.	5540.	60.	** 1400.	274.	.68	13.	93.8	F	22.0	6.1
14	2	1320.	0.	0.	3664.	0.	0.	3390.	4400.	0.	** 1320.	274.	.77	18.	96.3	F	12.3	5.1
15	3	540.	884.	1156.	4548.	884.	1156.	4274.	4940.	660.	** 540.	274.	.87	24.	59.3	F	12.2	3.9
16	2	1230.	0.	0.	3392.	0.	0.	3118.	4400.	0.	** 1230.	274.	.71	15.	107.4	F	15.3	5.8
17	2	890.	708.	0.	4100.	708.	0.	3826.	4397.	3.	** 890.	274.	.87	24.	78.3	F	19.1	3.9
18	3	4840.	280.	552.	4380.	280.	552.	4106.	5548.	52.	** 4840.	274.	.74	16.	85.5	F	13.3	5.5
19	2	530.	0.	0.	3828.	0.	0.	3554.	3800.	0.	** 530.	246.	.94	31.	57.5	F	20.8	3.2
20	2	1040.	556.	0.	4384.	556.	0.	4110.	4372.	28.	** 1040.	246.	.94	31.	65.3	F	20.9	3.1
21	3	2810.	904.	1096.	5288.	904.	1039.	5014.	5014.	586.	0.	0.	1.00	52.	32.4	E	30.3	2.3
22	2	1850.	0.	0.	4192.	0.	0.	3975.	4400.	0.	0.	0.	.90	58.	34.5	D	18.6	3.0
23	3	2390.	296.	132.	4488.	296.	125.	4271.	5534.	66.	0.	0.	.77	62.	23.0	C	24.1	4.8
24	3	960.	0.	1412.	4356.	0.	1500.	4145.	5576.	24.	0.	0.	.74	62.	22.3	C	17.2	4.8
25	2	1400.	0.	2944.	2944.	0.	2802.	2802.	3600.	0.	0.	0.	.78	62.	22.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 30.		44.0	15.6	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	328. VEH-HRS	371. PASS-HRS	7114. VEH-HRS	8053. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	365. VEH-HRS	413. PASS-HRS	4917. VEH-HRS	5566. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	693. VEH-HRS	784. PASS-HRS	12063. VEH-HRS	13656. PASS-HRS
TOTAL TRAV DISTANCE =	9738. VEH-MI.	11023. PASS-MI.	224148. VEH-MI.	253736. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		32. MPH.	
AVERAGE DENSITY =	44. VPMPL		45. VPMPL	
TOTAL FUEL =	762. GALLONS		16072. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		1228. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1439.	364.68	138.12	2.12	13.05	2.28	17.45

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2236.	56.	2236.	2236.	56.	2236.	4400.	0.	0.	0.	.51	62.	18.0	C	13.6	4.8
2	2	1970.	0.	0.	2180.	0.	0.	2180.	4100.	0.	0.	0.	.53	62.	17.6	B	13.6	4.8
3	2	1830.	584.	132.	2764.	584.	132.	2764.	4084.	16.	0.	0.	.68	62.	22.3	C	13.6	4.8
4	2	2010.	0.	0.	2632.	0.	0.	2632.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
5	2	2445.	616.	400.	3248.	616.	400.	3248.	4035.	65.	0.	0.	.80	61.	26.7	D	13.9	4.1
6	2	1890.	0.	0.	2848.	0.	0.	2848.	4100.	0.	0.	0.	.69	62.	23.0	C	13.6	4.8
7	2	5320.	628.	524.	3476.	628.	524.	3476.	4100.	0.	0.	0.	.85	60.	29.1	D	14.2	3.6
8	2	880.	0.	0.	2952.	0.	0.	2952.	3900.	0.	0.	0.	.76	62.	23.8	C	14.9	4.8
9	2	1125.	200.	0.	3152.	200.	0.	3152.	3900.	0.	0.	0.	.81	61.	25.9	C	20.5	4.1
10	3	6320.	584.	328.	3736.	584.	328.	3672.	5597.	3.	* 4386.	64.	.66	17.	72.2	F	15.4	5.8
11	2	2050.	0.	0.	3408.	0.	0.	3344.	4100.	0.	** 2050.	64.	.82	20.	82.1	F	17.9	4.5
12	3	2560.	608.	0.	4016.	608.	0.	3952.	5532.	68.	** 2560.	64.	.71	15.	89.1	F	13.1	5.8
13	3	1400.	0.	452.	4016.	0.	452.	3952.	5532.	68.	** 1400.	64.	.71	15.	89.1	F	24.1	5.8
14	2	1320.	0.	0.	3564.	0.	0.	3500.	4400.	0.	** 1320.	64.	.80	19.	91.8	F	12.6	4.8
15	3	540.	852.	1200.	4416.	852.	1200.	4352.	4980.	620.	** 540.	64.	.87	25.	58.6	F	12.3	3.8
16	2	1230.	0.	0.	3216.	0.	0.	3152.	4400.	0.	** 1230.	64.	.72	15.	106.0	F	15.5	5.8
17	2	890.	704.	0.	3920.	704.	0.	3856.	4398.	2.	** 890.	64.	.88	25.	77.1	F	19.3	3.8
18	3	4840.	280.	644.	4200.	280.	644.	4136.	5545.	55.	** 4840.	64.	.75	16.	84.6	F	13.4	5.4
19	2	530.	0.	0.	3556.	0.	0.	3492.	3800.	0.	** 530.	64.	.92	29.	60.1	F	20.4	3.3
20	2	1040.	580.	0.	4136.	580.	0.	4072.	4370.	30.	** 1040.	64.	.93	30.	66.8	F	20.7	3.2
21	3	2810.	912.	1224.	5048.	912.	1208.	4984.	4984.	616.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3824.	0.	0.	3775.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	252.	176.	4076.	252.	174.	4027.	5541.	59.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1480.	3900.	0.	1500.	3854.	5580.	20.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2420.	2420.	0.	2391.	2391.	3600.	0.	0.	0.	.66	62.	19.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 30.		44.0	15.6	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	328. VEH-HRS	371. PASS-HRS	7442. VEH-HRS	8424. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	3. VEH-HRS	3. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	359. VEH-HRS	406. PASS-HRS	5275. VEH-HRS	5971. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	687. VEH-HRS	777. PASS-HRS	12750. VEH-HRS	14433. PASS-HRS
TOTAL TRAV DISTANCE =	9722. VEH-MI.	11006. PASS-MI.	233871. VEH-MI.	264742. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		31. MPH.	
AVERAGE DENSITY =	44. VPMPL		45. VPMPL	
TOTAL FUEL =	758. GALLONS		16829. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		1290. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	1430.	358.61	135.82	2.09	12.83	2.24	17.16

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	136.	154.	15.	17.	151.	171.	8448.	9563.	55.9	515.	2.	28.	11.	6:00
2	170.	192.	44.	49.	213.	241.	10328.	11692.	48.4	631.	2.	31.	13.	6:15
3	219.	248.	73.	83.	292.	331.	11690.	13233.	40.0	715.	2.	31.	14.	6:30
4	235.	266.	109.	124.	344.	390.	11594.	13125.	33.7	735.	3.	33.	13.	6:45
5	242.	274.	145.	164.	387.	439.	10212.	11560.	26.4	672.	3.	34.	12.	7:00
6	247.	279.	170.	193.	417.	472.	10511.	11899.	25.2	685.	3.	34.	13.	7:15
7	293.	332.	173.	196.	466.	528.	10763.	12184.	23.1	727.	4.	37.	13.	7:30
8	333.	377.	175.	198.	508.	575.	10461.	11842.	20.6	726.	4.	38.	12.	7:45
9	358.	406.	189.	214.	548.	620.	10592.	11990.	19.3	750.	4.	39.	12.	8:00
10	404.	458.	202.	229.	606.	686.	10430.	11806.	17.2	764.	4.	40.	12.	8:15
11	417.	472.	218.	247.	635.	719.	10048.	11375.	15.8	756.	5.	41.	12.	8:30
12	379.	429.	236.	267.	615.	697.	10656.	12063.	17.3	775.	4.	41.	12.	8:45
13	387.	438.	254.	287.	640.	725.	10834.	12264.	16.9	797.	5.	42.	13.	9:00
14	425.	482.	269.	304.	694.	786.	10405.	11779.	15.0	799.	5.	44.	12.	9:15
15	434.	492.	279.	316.	713.	807.	10148.	11487.	14.2	790.	5.	44.	12.	9:30
16	406.	460.	291.	330.	697.	789.	9948.	11261.	14.3	767.	5.	43.	12.	9:45
17	398.	450.	312.	353.	710.	803.	9528.	10785.	13.4	754.	5.	44.	12.	10:00
18	370.	418.	339.	383.	708.	802.	9366.	10603.	13.2	742.	5.	44.	12.	10:15
19	344.	389.	357.	404.	701.	793.	9421.	10665.	13.4	745.	5.	44.	13.	10:30
20	287.	324.	365.	413.	652.	738.	8989.	10175.	13.8	693.	5.	41.	12.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	303.	343.	368.	417.	671.	760.	10038.	11363.	15.0	770.	5.	44.	14.	11:00
22	328.	371.	365.	413.	693.	784.	9738.	11023.	14.1	762.	5.	44.	13.	11:15
23	328.	371.	359.	406.	687.	777.	9722.	11006.	14.2	758.	5.	44.	13.	11:30
TOTAL	7442.	8424.	5308.	6008.	12750.	14433.	233871.	264742.	31.4	16829.	94.	907.	289.	

Existing (2019) plus Interim Build
(Aux Lanes Only)
Northbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2392.	76.	2392.	2392.	76.	2392.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
2	2	1970.	0.	0.	2316.	0.	0.	2316.	4100.	0.	0.	0.	.56	62.	18.7	C	13.6	4.8
3	2	1830.	248.	116.	2564.	248.	116.	2564.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
4	2	2010.	0.	0.	2448.	0.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	13.6	4.8
5	2	2445.	740.	376.	3188.	740.	376.	3188.	3999.	101.	0.	0.	.80	61.	26.1	D	13.8	4.2
6	2	1890.	0.	0.	2812.	0.	0.	2812.	4400.	0.	0.	0.	.64	62.	22.7	C	13.6	4.8
7	2	5320.	464.	608.	3276.	464.	608.	3276.	4100.	0.	0.	0.	.80	61.	26.8	D	13.8	4.2
8	2	880.	0.	0.	2668.	0.	0.	2668.	4400.	0.	0.	0.	.61	62.	21.5	C	14.9	4.8
9	2	1125.	204.	0.	2872.	204.	0.	2872.	4400.	0.	0.	0.	.65	62.	23.2	C	19.9	4.8
10	3	6320.	540.	360.	3412.	540.	360.	3412.	5598.	2.	0.	0.	.61	62.	18.3	C	19.9	4.8
11	2	2050.	0.	0.	3052.	0.	0.	3052.	4100.	0.	0.	0.	.74	62.	24.6	C	19.9	4.8
12	3	2560.	1136.	0.	4188.	1136.	0.	4188.	5501.	99.	0.	0.	.76	62.	22.5	C	17.2	4.8
13	3	1400.	0.	380.	4188.	0.	380.	4188.	5501.	99.	0.	0.	.76	62.	22.5	C	32.3	4.8
14	2	1320.	0.	0.	3808.	0.	0.	3808.	4400.	0.	0.	0.	.87	59.	32.1	D	15.7	3.4
15	3	540.	692.	1280.	4500.	692.	1280.	4500.	5104.	496.	0.	0.	.88	62.	24.2	C	12.6	4.8
16	2	1230.	0.	0.	3220.	0.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	20.0	4.7
17	2	890.	644.	0.	3864.	644.	0.	3864.	4399.	1.	0.	0.	.88	59.	32.9	D	21.3	3.3
18	3	4840.	264.	732.	4128.	264.	732.	4128.	5543.	57.	0.	0.	.74	62.	22.2	C	17.2	4.8
19	2	530.	0.	0.	3396.	0.	0.	3396.	3800.	0.	0.	0.	.89	58.	29.2	D	21.4	3.2
20	2	1040.	368.	0.	3764.	368.	0.	3764.	4386.	14.	0.	0.	.86	59.	31.6	D	21.1	3.5
21	3	2810.	500.	740.	4264.	500.	740.	4264.	5556.	44.	0.	0.	.77	62.	22.9	C	24.1	4.8
22	2	1850.	0.	0.	3524.	0.	0.	3524.	4400.	0.	0.	0.	.80	61.	28.9	D	17.6	4.2
23	3	2390.	308.	96.	3832.	308.	96.	3832.	5534.	66.	0.	0.	.69	62.	20.6	C	24.1	4.8
24	3	960.	0.	1460.	3736.	0.	1460.	3736.	5578.	22.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	2276.	2276.	0.	2276.	2276.	3600.	0.	0.	0.	.63	62.	18.4	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 62.	22.9		17.3	4.6

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 1 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	170. PASS-HRS	137. VEH-HRS	170. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	137. VEH-HRS	170. PASS-HRS	137. VEH-HRS	170. PASS-HRS
TOTAL TRAV DISTANCE =	8419. VEH-MI.	10473. PASS-MI.	8419. VEH-MI.	10473. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		23. VPMPL	
TOTAL FUEL =	488. GALLONS		488. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		38. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2516.	64.	2516.	2516.	64.	2516.	4100.	0.	0.	0.	.61	62.	20.3	C	13.6	4.8
2	2	1970.	0.	0.	2452.	0.	0.	2452.	4100.	0.	0.	0.	.60	62.	19.8	C	13.6	4.8
3	2	1830.	396.	108.	2848.	396.	108.	2848.	4100.	0.	0.	0.	.69	62.	23.0	C	13.6	4.8
4	2	2010.	0.	0.	2740.	0.	0.	2740.	4400.	0.	0.	0.	.62	62.	22.1	C	13.6	4.8
5	2	2445.	440.	396.	3180.	440.	396.	3180.	4100.	0.	0.	0.	.78	61.	25.9	C	13.7	4.4
6	2	1890.	0.	0.	2784.	0.	0.	2784.	4400.	0.	0.	0.	.63	62.	22.5	C	13.6	4.8
7	2	5320.	548.	600.	3332.	548.	600.	3332.	4100.	0.	0.	0.	.81	61.	27.4	D	13.9	4.1
8	2	880.	0.	0.	2732.	0.	0.	2732.	4400.	0.	0.	0.	.62	62.	22.0	C	14.9	4.8
9	2	1125.	168.	0.	2900.	168.	0.	2900.	4400.	0.	0.	0.	.66	62.	23.4	C	19.9	4.8
10	3	6320.	580.	316.	3480.	580.	316.	3480.	5598.	2.	0.	0.	.62	62.	18.7	C	19.9	4.8
11	2	2050.	0.	0.	3164.	0.	0.	3164.	4100.	0.	0.	0.	.77	61.	25.7	C	20.2	4.5
12	3	2560.	1056.	0.	4220.	1056.	0.	4220.	5486.	114.	0.	0.	.77	62.	22.7	C	17.2	4.8
13	3	1400.	0.	480.	4220.	0.	480.	4220.	5486.	114.	0.	0.	.77	62.	22.7	C	32.3	4.8
14	2	1320.	0.	0.	3740.	0.	0.	3740.	4400.	0.	0.	0.	.85	60.	31.3	D	15.6	3.6
15	3	540.	864.	1240.	4604.	864.	1240.	4604.	4968.	632.	0.	0.	.93	62.	24.8	C	12.6	4.8
16	2	1230.	0.	0.	3364.	0.	0.	3364.	4400.	0.	0.	0.	.76	62.	27.3	D	20.2	4.5
17	2	890.	692.	0.	4056.	692.	0.	4056.	4397.	3.	0.	0.	.92	57.	35.8	E	21.8	2.8
18	3	4840.	304.	680.	4360.	304.	680.	4360.	5541.	59.	0.	0.	.79	62.	23.4	C	17.2	4.8
19	2	530.	0.	0.	3680.	0.	0.	3680.	3800.	0.	0.	0.	.97	54.	34.1	D	22.5	2.4
20	2	1040.	356.	0.	4036.	356.	0.	4036.	4385.	15.	0.	0.	.92	57.	35.5	E	21.8	2.8
21	3	2810.	532.	824.	4568.	532.	824.	4568.	5488.	112.	0.	0.	.83	62.	24.6	C	24.1	4.8
22	2	1850.	0.	0.	3744.	0.	0.	3744.	4400.	0.	0.	0.	.85	60.	31.3	D	18.1	3.6
23	3	2390.	320.	236.	4064.	320.	236.	4064.	5530.	70.	0.	0.	.73	62.	21.8	C	24.1	4.8
24	3	960.	0.	1488.	3828.	0.	1488.	3828.	5577.	23.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	2340.	2340.	0.	2340.	2340.	3600.	0.	0.	0.	.65	62.	18.9	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.97		LOWEST LOS = E	AVG = 61.	23.9		17.3	4.5

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 2 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	142. VEH-HRS	177. PASS-HRS	279. VEH-HRS	347. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	177. PASS-HRS	279. VEH-HRS	347. PASS-HRS
TOTAL TRAV DISTANCE =	8739. VEH-MI.	10872. PASS-MI.	17158. VEH-MI.	21345. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		23. VPMPL	
TOTAL FUEL =	505. GALLONS		992. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		78. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2740.	108.	2740.	2740.	108.	2740.	4100.	0.	0.	0.	.67	62.	22.1	C	13.6	4.8
2	2	1970.	0.	0.	2632.	0.	0.	2632.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
3	2	1830.	360.	132.	2992.	360.	132.	2992.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
4	2	2010.	0.	0.	2860.	0.	0.	2860.	4400.	0.	0.	0.	.65	62.	23.1	C	13.6	4.8
5	2	2445.	392.	368.	3252.	392.	368.	3252.	4100.	0.	0.	0.	.79	61.	26.6	D	13.8	4.3
6	2	1890.	0.	0.	2884.	0.	0.	2884.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
7	2	5320.	564.	468.	3448.	564.	468.	3448.	4100.	0.	0.	0.	.84	60.	28.7	D	14.1	3.6
8	2	880.	0.	0.	2980.	0.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	14.9	4.8
9	2	1125.	196.	0.	3176.	196.	0.	3176.	4400.	0.	0.	0.	.72	62.	25.7	C	20.0	4.7
10	3	6320.	568.	304.	3744.	568.	304.	3744.	5597.	3.	0.	0.	.67	62.	20.1	C	19.9	4.8
11	2	2050.	0.	0.	3440.	0.	0.	3440.	4100.	0.	0.	0.	.84	60.	28.6	D	20.9	3.7
12	3	2560.	804.	0.	4244.	804.	0.	4244.	5508.	92.	0.	0.	.77	62.	22.8	C	17.2	4.8
13	3	1400.	0.	488.	4244.	0.	488.	4244.	5508.	92.	0.	0.	.77	62.	22.8	C	32.3	4.8
14	2	1320.	0.	0.	3756.	0.	0.	3756.	4400.	0.	0.	0.	.85	60.	31.5	D	15.7	3.5
15	3	540.	804.	1360.	4560.	804.	1360.	4560.	5036.	564.	0.	0.	.91	62.	24.5	C	12.6	4.8
16	2	1230.	0.	0.	3200.	0.	0.	3200.	4400.	0.	0.	0.	.73	62.	25.9	C	20.0	4.7
17	2	890.	652.	0.	3852.	652.	0.	3852.	4399.	1.	0.	0.	.88	59.	32.7	D	21.2	3.3
18	3	4840.	236.	752.	4088.	236.	752.	4088.	5544.	56.	0.	0.	.74	62.	22.0	C	17.2	4.8
19	2	530.	0.	0.	3336.	0.	0.	3336.	3800.	0.	0.	0.	.88	59.	28.4	D	21.3	3.3
20	2	1040.	384.	0.	3720.	384.	0.	3720.	4386.	14.	0.	0.	.85	60.	31.1	D	21.0	3.6
21	3	2810.	664.	732.	4384.	664.	732.	4384.	5473.	127.	0.	0.	.80	62.	23.6	C	24.1	4.8
22	2	1850.	0.	0.	3652.	0.	0.	3652.	4400.	0.	0.	0.	.83	60.	30.3	D	17.9	3.8
23	3	2390.	348.	108.	4000.	348.	108.	4000.	5515.	85.	0.	0.	.73	62.	21.5	C	24.1	4.8
24	3	960.	0.	1592.	3892.	0.	1500.	3892.	5574.	26.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	2300.	2300.	0.	2300.	2300.	3600.	0.	0.	0.	.64	62.	18.5	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.91		LOWEST LOS = D	AVG = 61.	24.2		17.3	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	144. VEH-HRS	179. PASS-HRS	423. VEH-HRS	527. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	3. VEH-HRS	4. PASS-HRS	3. VEH-HRS	4. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	147. VEH-HRS	183. PASS-HRS	426. VEH-HRS	530. PASS-HRS
TOTAL TRAV DISTANCE =	8853. VEH-MI.	11014. PASS-MI.	26012. VEH-MI.	32359. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		24. VPMPL	
TOTAL FUEL =	514. GALLONS		1506. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		117. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	23.	2.88	1.09	0.02	0.10	0.02	0.14

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2552.	112.	2552.	2552.	112.	2552.	4100.	0.	0.	0.	.62	62.	20.6	C	13.6	4.8
2	2	1970.	0.	0.	2440.	0.	0.	2440.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
3	2	1830.	280.	156.	2720.	280.	156.	2720.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
4	2	2010.	0.	0.	2564.	0.	0.	2564.	4400.	0.	0.	0.	.58	62.	20.7	C	13.6	4.8
5	2	2445.	516.	428.	3080.	516.	428.	3080.	4064.	36.	0.	0.	.76	62.	25.0	C	13.7	4.6
6	2	1890.	0.	0.	2652.	0.	0.	2652.	4400.	0.	0.	0.	.60	62.	21.4	C	13.6	4.8
7	2	5320.	548.	464.	3200.	548.	464.	3200.	4100.	0.	0.	0.	.78	61.	26.1	D	13.7	4.4
8	2	880.	0.	0.	2736.	0.	0.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	14.9	4.8
9	2	1125.	180.	0.	2916.	180.	0.	2916.	4400.	0.	0.	0.	.66	62.	23.5	C	19.9	4.8
10	3	6320.	504.	356.	3420.	504.	356.	3420.	5598.	2.	0.	0.	.61	62.	18.4	C	19.9	4.8
11	2	2050.	0.	0.	3064.	0.	0.	3064.	4100.	0.	0.	0.	.75	62.	24.7	C	19.9	4.8
12	3	2560.	764.	0.	3828.	764.	0.	3828.	5513.	87.	0.	0.	.69	62.	20.6	C	17.2	4.8
13	3	1400.	0.	460.	3828.	0.	460.	3828.	5513.	87.	0.	0.	.69	62.	20.6	C	32.3	4.8
14	2	1320.	0.	0.	3368.	0.	0.	3368.	4400.	0.	0.	0.	.77	62.	27.4	D	15.1	4.5
15	3	540.	976.	1472.	4344.	976.	1472.	4344.	4956.	644.	0.	0.	.88	62.	23.4	C	12.6	4.8
16	2	1230.	0.	0.	2872.	0.	0.	2872.	4400.	0.	0.	0.	.65	62.	23.2	C	19.9	4.8
17	2	890.	580.	0.	3452.	580.	0.	3452.	4400.	0.	0.	0.	.78	61.	28.2	D	20.3	4.4
18	3	4840.	236.	828.	3688.	236.	828.	3688.	5561.	39.	0.	0.	.66	62.	19.8	C	17.2	4.8
19	2	530.	0.	0.	2860.	0.	0.	2860.	3800.	0.	0.	0.	.75	62.	23.1	C	19.9	4.8
20	2	1040.	452.	0.	3312.	452.	0.	3312.	4387.	13.	0.	0.	.75	62.	26.9	D	20.1	4.6
21	3	2810.	576.	836.	3888.	576.	836.	3888.	5480.	120.	0.	0.	.71	62.	20.9	C	24.1	4.8
22	2	1850.	0.	0.	3052.	0.	0.	3052.	4400.	0.	0.	0.	.69	62.	24.6	C	17.2	4.8
23	3	2390.	588.	236.	3640.	588.	236.	3640.	5507.	93.	0.	0.	.66	62.	19.6	C	24.1	4.8
24	3	960.	0.	1612.	3404.	0.	1500.	3404.	5585.	15.	0.	0.	.61	62.	18.3	C	17.2	4.8
25	2	1400.	0.	1792.	1792.	0.	1792.	1792.	3600.	0.	0.	0.	.50	62.	14.5	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.88		LOWEST LOS = D	AVG = 62.	21.7		17.1	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	129. VEH-HRS	161. PASS-HRS	553. VEH-HRS	688. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	9. VEH-HRS	12. PASS-HRS	12. VEH-HRS	15. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	173. PASS-HRS	565. VEH-HRS	703. PASS-HRS
TOTAL TRAV DISTANCE =	8010. VEH-MI.	9965. PASS-MI.	34022. VEH-MI.	42324. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		23. VPMPL	
TOTAL FUEL =	473. GALLONS		1979. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		156. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	51.	9.25	3.50	0.05	0.33	0.06	0.44

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2664.	108.	2664.	2664.	108.	2664.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
2	2	1970.	0.	0.	2556.	0.	0.	2556.	4100.	0.	0.	0.	.62	62.	20.6	C	13.6	4.8
3	2	1830.	260.	204.	2816.	260.	204.	2816.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
4	2	2010.	0.	0.	2612.	0.	0.	2612.	4400.	0.	0.	0.	.59	62.	21.1	C	13.6	4.8
5	2	2445.	724.	328.	3336.	724.	328.	3336.	4023.	77.	0.	0.	.83	60.	27.6	D	14.0	3.8
6	2	1890.	0.	0.	3008.	0.	0.	3008.	4400.	0.	0.	0.	.68	62.	24.3	C	13.6	4.8
7	2	5320.	600.	648.	3608.	600.	648.	3608.	4100.	0.	0.	0.	.88	59.	30.7	D	14.4	3.3
8	2	880.	0.	0.	2960.	0.	0.	2960.	4400.	0.	0.	0.	.67	62.	23.9	C	14.9	4.8
9	2	1125.	224.	0.	3184.	224.	0.	3184.	4400.	0.	0.	0.	.72	62.	25.7	C	20.0	4.7
10	3	6320.	468.	364.	3652.	468.	364.	3652.	5595.	5.	0.	0.	.65	62.	19.6	C	19.9	4.8
11	2	2050.	0.	0.	3288.	0.	0.	3288.	4100.	0.	0.	0.	.80	61.	27.0	D	20.4	4.2
12	3	2560.	652.	0.	3940.	652.	0.	3940.	5528.	72.	0.	0.	.71	62.	21.2	C	17.2	4.8
13	3	1400.	0.	460.	3940.	0.	460.	3940.	5528.	72.	0.	0.	.71	62.	21.2	C	32.3	4.8
14	2	1320.	0.	0.	3480.	0.	0.	3480.	4400.	0.	0.	0.	.79	61.	28.4	D	15.2	4.3
15	3	540.	1060.	1200.	4540.	1060.	1200.	4540.	4820.	780.	0.	0.	.94	62.	24.4	C	12.6	4.8
16	2	1230.	0.	0.	3340.	0.	0.	3340.	4400.	0.	0.	0.	.76	62.	27.1	D	20.1	4.6
17	2	890.	536.	0.	3876.	536.	0.	3876.	4399.	1.	0.	0.	.88	59.	33.1	D	21.3	3.3
18	3	4840.	184.	724.	4060.	184.	724.	4060.	5551.	49.	0.	0.	.73	62.	21.8	C	17.2	4.8
19	2	530.	0.	0.	3336.	0.	0.	3336.	3800.	0.	0.	0.	.88	59.	28.4	D	21.3	3.3
20	2	1040.	372.	0.	3708.	372.	0.	3708.	4387.	13.	0.	0.	.85	60.	31.0	D	21.0	3.6
21	3	2810.	660.	712.	4368.	660.	712.	4368.	5476.	124.	0.	0.	.80	62.	23.5	C	24.1	4.8
22	2	1850.	0.	0.	3656.	0.	0.	3656.	4400.	0.	0.	0.	.83	60.	30.3	D	17.9	3.8
23	3	2390.	372.	172.	4028.	372.	172.	4028.	5518.	82.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1484.	3856.	0.	1500.	3856.	5573.	27.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2372.	2372.	0.	2372.	2372.	3600.	0.	0.	0.	.66	62.	19.1	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.94		LOWEST LOS = D	AVG = 61.	24.0		17.3	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	695. VEH-HRS	865. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	12. VEH-HRS	15. PASS-HRS	24. VEH-HRS	30. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	155. VEH-HRS	193. PASS-HRS	720. VEH-HRS	896. PASS-HRS
TOTAL TRAV DISTANCE =	8746. VEH-MI.	10880. PASS-MI.	42768. VEH-MI.	53203. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		23. VPMPL	
TOTAL FUEL =	511. GALLONS		2489. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		195. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	47.	12.25	4.64	0.07	0.44	0.08	0.59

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2492.	112.	2492.	2492.	112.	2492.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
2	2	1970.	0.	0.	2380.	0.	0.	2380.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
3	2	1830.	260.	160.	2640.	260.	160.	2640.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
4	2	2010.	0.	0.	2480.	0.	0.	2480.	4400.	0.	0.	0.	.56	62.	20.0	C	13.6	4.8
5	2	2445.	612.	300.	3092.	612.	300.	3092.	4088.	12.	0.	0.	.76	62.	25.1	C	13.7	4.6
6	2	1890.	0.	0.	2792.	0.	0.	2792.	4400.	0.	0.	0.	.63	62.	22.5	C	13.6	4.8
7	2	5320.	428.	520.	3220.	428.	520.	3220.	4100.	0.	0.	0.	.79	61.	26.3	D	13.8	4.4
8	2	880.	0.	0.	2700.	0.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	14.9	4.8
9	2	1125.	184.	0.	2884.	184.	0.	2884.	4400.	0.	0.	0.	.66	62.	23.3	C	19.9	4.8
10	3	6320.	408.	288.	3292.	408.	288.	3292.	5599.	1.	0.	0.	.59	62.	17.7	B	19.9	4.8
11	2	2050.	0.	0.	3004.	0.	0.	3004.	4100.	0.	0.	0.	.73	62.	24.2	C	19.9	4.8
12	3	2560.	836.	0.	3840.	836.	0.	3840.	5517.	83.	0.	0.	.70	62.	20.6	C	17.2	4.8
13	3	1400.	0.	428.	3840.	0.	428.	3840.	5517.	83.	0.	0.	.70	62.	20.6	C	32.3	4.8
14	2	1320.	0.	0.	3412.	0.	0.	3412.	4400.	0.	0.	0.	.78	61.	27.8	D	15.1	4.4
15	3	540.	912.	1288.	4324.	912.	1288.	4324.	4960.	640.	0.	0.	.87	62.	23.2	C	12.6	4.8
16	2	1230.	0.	0.	3036.	0.	0.	3036.	4400.	0.	0.	0.	.69	62.	24.5	C	19.9	4.8
17	2	890.	652.	0.	3688.	652.	0.	3688.	4400.	0.	0.	0.	.84	60.	30.7	D	20.9	3.7
18	3	4840.	212.	612.	3900.	212.	612.	3900.	5552.	48.	0.	0.	.70	62.	21.0	C	17.2	4.8
19	2	530.	0.	0.	3288.	0.	0.	3288.	3800.	0.	0.	0.	.87	59.	27.8	D	21.1	3.4
20	2	1040.	380.	0.	3668.	380.	0.	3668.	4386.	14.	0.	0.	.84	60.	30.5	D	20.8	3.7
21	3	2810.	656.	732.	4324.	656.	732.	4324.	5476.	124.	0.	0.	.79	62.	23.2	C	24.1	4.8
22	2	1850.	0.	0.	3592.	0.	0.	3592.	4400.	0.	0.	0.	.82	61.	29.6	D	17.7	4.0
23	3	2390.	324.	140.	3916.	324.	140.	3916.	5525.	75.	0.	0.	.71	62.	21.1	C	24.1	4.8
24	3	960.	0.	1584.	3776.	0.	1500.	3776.	5577.	23.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	2192.	2192.	0.	2192.	2192.	3600.	0.	0.	0.	.61	62.	17.7	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.87		LOWEST LOS = D	AVG = 62.	22.4		17.2	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	133. VEH-HRS	166. PASS-HRS	829. VEH-HRS	1031. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	14. VEH-HRS	18. PASS-HRS	39. VEH-HRS	48. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	148. VEH-HRS	184. PASS-HRS	868. VEH-HRS	1079. PASS-HRS
TOTAL TRAV DISTANCE =	8233. VEH-MI.	10241. PASS-MI.	51000. VEH-MI.	63444. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		23. VPMPL	
TOTAL FUEL =	485. GALLONS		2974. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		234. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	68.	14.37	5.44	0.08	0.51	0.09	0.69

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2560.	164.	2560.	2560.	164.	2560.	4100.	0.	0.	0.	.62	62.	20.6	C	13.6	4.8
2	2	1970.	0.	0.	2396.	0.	0.	2396.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
3	2	1830.	248.	140.	2644.	248.	140.	2644.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
4	2	2010.	0.	0.	2504.	0.	0.	2504.	4400.	0.	0.	0.	.57	62.	20.2	C	13.6	4.8
5	2	2445.	700.	344.	3204.	700.	344.	3204.	4020.	80.	0.	0.	.80	61.	26.2	D	13.8	4.2
6	2	1890.	0.	0.	2860.	0.	0.	2860.	4400.	0.	0.	0.	.65	62.	23.1	C	13.6	4.8
7	2	5320.	484.	464.	3344.	484.	464.	3344.	4100.	0.	0.	0.	.82	61.	27.6	D	13.9	4.0
8	2	880.	0.	0.	2880.	0.	0.	2880.	4400.	0.	0.	0.	.65	62.	23.2	C	14.9	4.8
9	2	1125.	160.	0.	3040.	160.	0.	3040.	4400.	0.	0.	0.	.69	62.	24.5	C	19.9	4.8
10	3	6320.	524.	276.	3564.	524.	276.	3564.	5597.	3.	0.	0.	.64	62.	19.2	C	19.9	4.8
11	2	2050.	0.	0.	3288.	0.	0.	3288.	4100.	0.	0.	0.	.80	61.	27.0	D	20.4	4.2
12	3	2560.	780.	0.	4068.	780.	0.	4068.	5520.	80.	0.	0.	.74	62.	21.9	C	17.2	4.8
13	3	1400.	0.	436.	4068.	0.	436.	4068.	5520.	80.	0.	0.	.74	62.	21.9	C	32.3	4.8
14	2	1320.	0.	0.	3632.	0.	0.	3632.	4400.	0.	0.	0.	.83	60.	30.0	D	15.4	3.9
15	3	540.	772.	1188.	4404.	772.	1188.	4404.	5036.	564.	0.	0.	.87	62.	23.7	C	12.6	4.8
16	2	1230.	0.	0.	3216.	0.	0.	3216.	4400.	0.	0.	0.	.73	62.	26.0	D	20.0	4.7
17	2	890.	632.	0.	3848.	632.	0.	3848.	4398.	2.	0.	0.	.87	59.	32.7	D	21.2	3.3
18	3	4840.	236.	500.	4084.	236.	500.	4084.	5558.	42.	0.	0.	.73	62.	22.0	C	17.2	4.8
19	2	530.	0.	0.	3584.	0.	0.	3584.	3800.	0.	0.	0.	.94	56.	32.3	D	22.2	2.5
20	2	1040.	380.	0.	3964.	380.	0.	3964.	4385.	15.	0.	0.	.90	58.	34.4	D	21.6	3.0
21	3	2810.	672.	792.	4636.	672.	792.	4636.	5417.	183.	0.	0.	.86	60.	25.9	C	25.5	3.5
22	2	1850.	0.	0.	3844.	0.	0.	3844.	4400.	0.	0.	0.	.87	59.	32.6	D	18.3	3.4
23	3	2390.	336.	152.	4180.	336.	152.	4180.	5520.	80.	0.	0.	.76	62.	22.5	C	24.1	4.8
24	3	960.	0.	1536.	4028.	0.	1500.	4028.	5573.	27.	0.	0.	.72	62.	21.7	C	17.2	4.8
25	2	1400.	0.	2492.	2492.	0.	2492.	2492.	3600.	0.	0.	0.	.69	62.	20.1	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.94		LOWEST LOS = D	AVG = 61.	23.8		17.4	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	142. VEH-HRS	177. PASS-HRS	971. VEH-HRS	1208. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	18. VEH-HRS	23. PASS-HRS	57. VEH-HRS	71. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	160. VEH-HRS	199. PASS-HRS	1028. VEH-HRS	1278. PASS-HRS
TOTAL TRAV DISTANCE =	8687. VEH-MI.	10807. PASS-MI.	59688. VEH-MI.	74252. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		23. VPMPL	
TOTAL FUEL =	506. GALLONS		3480. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		273. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	77.	18.12	6.86	0.11	0.65	0.11	0.87

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2544.	112.	2544.	2544.	112.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
2	2	1970.	0.	0.	2432.	0.	0.	2432.	4100.	0.	0.	0.	.59	62.	19.6	C	13.6	4.8
3	2	1830.	308.	156.	2740.	308.	156.	2740.	4100.	0.	0.	0.	.67	62.	22.1	C	13.6	4.8
4	2	2010.	0.	0.	2584.	0.	0.	2584.	4400.	0.	0.	0.	.59	62.	20.8	C	13.6	4.8
5	2	2445.	592.	348.	3176.	592.	348.	3176.	4072.	28.	0.	0.	.78	61.	25.9	C	13.7	4.4
6	2	1890.	0.	0.	2828.	0.	0.	2828.	4400.	0.	0.	0.	.64	62.	22.8	C	13.6	4.8
7	2	5320.	492.	544.	3320.	492.	544.	3320.	4100.	0.	0.	0.	.81	61.	27.3	D	13.9	4.1
8	2	880.	0.	0.	2776.	0.	0.	2776.	4400.	0.	0.	0.	.63	62.	22.4	C	14.9	4.8
9	2	1125.	164.	0.	2940.	164.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	19.9	4.8
10	3	6320.	444.	320.	3384.	444.	320.	3384.	5598.	2.	0.	0.	.60	62.	18.2	C	19.9	4.8
11	2	2050.	0.	0.	3064.	0.	0.	3064.	4100.	0.	0.	0.	.75	62.	24.7	C	19.9	4.8
12	3	2560.	704.	0.	3768.	704.	0.	3768.	5517.	83.	0.	0.	.68	62.	20.3	C	17.2	4.8
13	3	1400.	0.	488.	3768.	0.	488.	3768.	5517.	83.	0.	0.	.68	62.	20.3	C	32.3	4.8
14	2	1320.	0.	0.	3280.	0.	0.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	15.0	4.6
15	3	540.	796.	1356.	4076.	796.	1356.	4076.	5068.	532.	0.	0.	.80	62.	21.9	C	12.6	4.8
16	2	1230.	0.	0.	2720.	0.	0.	2720.	4400.	0.	0.	0.	.62	62.	21.9	C	19.9	4.8
17	2	890.	472.	0.	3192.	472.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	20.0	4.7
18	3	4840.	192.	660.	3384.	192.	660.	3384.	5577.	23.	0.	0.	.61	62.	18.2	C	17.2	4.8
19	2	530.	0.	0.	2724.	0.	0.	2724.	3800.	0.	0.	0.	.72	62.	22.0	C	19.9	4.8
20	2	1040.	380.	0.	3104.	380.	0.	3104.	4391.	9.	0.	0.	.71	62.	25.1	C	20.0	4.8
21	3	2810.	776.	660.	3880.	776.	660.	3880.	5486.	114.	0.	0.	.71	62.	20.9	C	24.1	4.8
22	2	1850.	0.	0.	3220.	0.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	17.2	4.7
23	3	2390.	308.	232.	3528.	308.	232.	3528.	5556.	44.	0.	0.	.63	62.	19.0	C	24.1	4.8
24	3	960.	0.	1552.	3296.	0.	1500.	3296.	5592.	8.	0.	0.	.59	62.	17.7	B	17.2	4.8
25	2	1400.	0.	1744.	1744.	0.	1744.	1744.	3600.	0.	0.	0.	.48	62.	14.1	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.81 LOWEST LOS = D AVG = 62. 21.6 17.0 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	160. PASS-HRS	1099. VEH-HRS	1367. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	21. VEH-HRS	26. PASS-HRS	78. VEH-HRS	97. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	185. PASS-HRS	1177. VEH-HRS	1464. PASS-HRS
TOTAL TRAV DISTANCE =	7927. VEH-MI.	9862. PASS-MI.	67615. VEH-MI.	84113. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		23. VPMPL	
TOTAL FUEL =	473. GALLONS		3953. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		311. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	90.	20.87	7.91	0.12	0.75	0.13	1.00

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2776.	140.	2776.	2776.	140.	2776.	4100.	0.	0.	0.	.68	62.	22.4	C	13.6	4.8
2	2	1970.	0.	0.	2636.	0.	0.	2636.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
3	2	1830.	284.	144.	2920.	284.	144.	2920.	4100.	0.	0.	0.	.71	62.	23.5	C	13.6	4.8
4	2	2010.	0.	0.	2776.	0.	0.	2776.	4400.	0.	0.	0.	.63	62.	22.4	C	13.6	4.8
5	2	2445.	428.	504.	3204.	428.	504.	3204.	4064.	36.	0.	0.	.79	61.	26.2	D	13.8	4.3
6	2	1890.	0.	0.	2700.	0.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	13.6	4.8
7	2	5320.	404.	432.	3104.	404.	432.	3104.	4100.	0.	0.	0.	.76	62.	25.2	C	13.7	4.6
8	2	880.	0.	0.	2672.	0.	0.	2672.	4400.	0.	0.	0.	.61	62.	21.5	C	14.9	4.8
9	2	1125.	152.	0.	2824.	152.	0.	2824.	4400.	0.	0.	0.	.64	62.	22.8	C	19.9	4.8
10	3	6320.	372.	372.	3196.	372.	372.	3196.	5599.	1.	0.	0.	.57	62.	17.2	B	19.9	4.8
11	2	2050.	0.	0.	2824.	0.	0.	2824.	4100.	0.	0.	0.	.69	62.	22.8	C	19.9	4.8
12	3	2560.	844.	0.	3668.	844.	0.	3668.	5515.	85.	0.	0.	.67	62.	19.7	C	17.2	4.8
13	3	1400.	0.	436.	3668.	0.	436.	3668.	5515.	85.	0.	0.	.67	62.	19.7	C	32.3	4.8
14	2	1320.	0.	0.	3232.	0.	0.	3232.	4400.	0.	0.	0.	.73	62.	26.1	D	15.0	4.7
15	3	540.	580.	1128.	3812.	580.	1128.	3812.	5192.	408.	0.	0.	.73	62.	20.5	C	12.6	4.8
16	2	1230.	0.	0.	2684.	0.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	19.9	4.8
17	2	890.	580.	0.	3264.	580.	0.	3264.	4400.	0.	0.	0.	.74	62.	26.4	D	20.1	4.6
18	3	4840.	168.	496.	3432.	168.	496.	3432.	5575.	25.	0.	0.	.62	62.	18.5	C	17.2	4.8
19	2	530.	0.	0.	2936.	0.	0.	2936.	3800.	0.	0.	0.	.77	62.	23.7	C	19.9	4.8
20	2	1040.	432.	0.	3368.	432.	0.	3368.	4386.	14.	0.	0.	.77	62.	27.4	D	20.2	4.5
21	3	2810.	600.	764.	3968.	600.	764.	3968.	5503.	97.	0.	0.	.72	62.	21.3	C	24.1	4.8
22	2	1850.	0.	0.	3204.	0.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	17.2	4.7
23	3	2390.	336.	168.	3540.	336.	168.	3540.	5540.	60.	0.	0.	.64	62.	19.0	C	24.1	4.8
24	3	960.	0.	1460.	3372.	0.	1500.	3372.	5586.	14.	0.	0.	.60	62.	18.1	C	17.2	4.8
25	2	1400.	0.	1912.	1912.	0.	1912.	1912.	3600.	0.	0.	0.	.53	62.	15.4	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.79 LOWEST LOS = D AVG = 62. 21.5 17.0 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	159. PASS-HRS	1227. VEH-HRS	1526. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	21. VEH-HRS	26. PASS-HRS	99. VEH-HRS	123. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	185. PASS-HRS	1326. VEH-HRS	1649. PASS-HRS
TOTAL TRAV DISTANCE =	7893. VEH-MI.	9819. PASS-MI.	75508. VEH-MI.	93932. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		23. VPMPL	
TOTAL FUEL =	473. GALLONS		4427. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		350. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	80.	21.25	8.05	0.12	0.76	0.13	1.02

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2604.	104.	2604.	2604.	104.	2604.	4100.	0.	0.	0.	.64	62.	21.0	C	13.6	4.8
2	2	1970.	0.	0.	2500.	0.	0.	2500.	4100.	0.	0.	0.	.61	62.	20.2	C	13.6	4.8
3	2	1830.	268.	156.	2768.	268.	156.	2768.	4100.	0.	0.	0.	.68	62.	22.3	C	13.6	4.8
4	2	2010.	0.	0.	2612.	0.	0.	2612.	4400.	0.	0.	0.	.59	62.	21.1	C	13.6	4.8
5	2	2445.	644.	504.	3256.	644.	504.	3256.	3938.	162.	0.	0.	.83	60.	26.9	D	14.0	3.9
6	2	1890.	0.	0.	2752.	0.	0.	2752.	4400.	0.	0.	0.	.63	62.	22.2	C	13.6	4.8
7	2	5320.	400.	496.	3152.	400.	496.	3152.	4100.	0.	0.	0.	.77	61.	25.6	C	13.7	4.5
8	2	880.	0.	0.	2656.	0.	0.	2656.	4400.	0.	0.	0.	.60	62.	21.4	C	14.9	4.8
9	2	1125.	176.	0.	2832.	176.	0.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	19.9	4.8
10	3	6320.	448.	424.	3280.	448.	424.	3280.	5599.	1.	0.	0.	.59	62.	17.6	B	19.9	4.8
11	2	2050.	0.	0.	2856.	0.	0.	2856.	4100.	0.	0.	0.	.70	62.	23.0	C	19.9	4.8
12	3	2560.	656.	0.	3512.	656.	0.	3512.	5522.	78.	0.	0.	.64	62.	18.9	C	17.2	4.8
13	3	1400.	0.	488.	3512.	0.	488.	3512.	5522.	78.	0.	0.	.64	62.	18.9	C	32.3	4.8
14	2	1320.	0.	0.	3024.	0.	0.	3024.	4400.	0.	0.	0.	.69	62.	24.4	C	14.9	4.8
15	3	540.	620.	1316.	3644.	620.	1316.	3644.	5204.	396.	0.	0.	.70	62.	19.6	C	12.6	4.8
16	2	1230.	0.	0.	2328.	0.	0.	2328.	4400.	0.	0.	0.	.53	62.	18.8	C	19.9	4.8
17	2	890.	524.	0.	2852.	524.	0.	2852.	4400.	0.	0.	0.	.65	62.	23.0	C	19.9	4.8
18	3	4840.	232.	556.	3084.	232.	556.	3084.	5592.	8.	0.	0.	.55	62.	16.6	B	17.2	4.8
19	2	530.	0.	0.	2528.	0.	0.	2528.	3800.	0.	0.	0.	.67	62.	20.4	C	19.9	4.8
20	2	1040.	372.	0.	2900.	372.	0.	2900.	4394.	6.	0.	0.	.66	62.	23.4	C	19.9	4.8
21	3	2810.	648.	728.	3548.	648.	728.	3548.	5541.	59.	0.	0.	.64	62.	19.1	C	24.1	4.8
22	2	1850.	0.	0.	2820.	0.	0.	2820.	4400.	0.	0.	0.	.64	62.	22.7	C	17.2	4.8
23	3	2390.	252.	152.	3072.	252.	152.	3072.	5591.	9.	0.	0.	.55	62.	16.5	B	24.1	4.8
24	3	960.	0.	1520.	2920.	0.	1500.	2920.	5600.	0.	0.	0.	.52	62.	15.7	B	17.2	4.8
25	2	1400.	0.	1400.	1400.	0.	1400.	1400.	3600.	0.	0.	0.	.39	62.	11.3	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.83 LOWEST LOS = D AVG = 62. 20.5 16.9 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	150. PASS-HRS	1347. VEH-HRS	1676. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	21. VEH-HRS	26. PASS-HRS	120. VEH-HRS	149. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	176. PASS-HRS	1467. VEH-HRS	1825. PASS-HRS
TOTAL TRAV DISTANCE =	7480. VEH-MI.	9305. PASS-MI.	82988. VEH-MI.	103237. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		23. VPMPL	
TOTAL FUEL =	450. GALLONS		4877. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		386. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	85.	20.62	7.81	0.12	0.74	0.13	0.99

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2836.	116.	2836.	2836.	116.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
2	2	1970.	0.	0.	2720.	0.	0.	2720.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
3	2	1830.	268.	144.	2988.	268.	144.	2988.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
4	2	2010.	0.	0.	2844.	0.	0.	2844.	4400.	0.	0.	0.	.65	62.	22.9	C	13.6	4.8
5	2	2445.	608.	472.	3452.	608.	472.	3452.	3984.	116.	0.	0.	.87	59.	29.2	D	14.3	3.4
6	2	1890.	0.	0.	2980.	0.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	13.6	4.8
7	2	5320.	328.	480.	3308.	328.	480.	3308.	4100.	0.	0.	0.	.81	61.	27.2	D	13.9	4.1
8	2	880.	0.	0.	2828.	0.	0.	2828.	4400.	0.	0.	0.	.64	62.	22.8	C	14.9	4.8
9	2	1125.	128.	0.	2956.	128.	0.	2956.	4400.	0.	0.	0.	.67	62.	23.8	C	19.9	4.8
10	3	6320.	420.	388.	3376.	420.	388.	3376.	5598.	2.	0.	0.	.60	62.	18.2	C	19.9	4.8
11	2	2050.	0.	0.	2988.	0.	0.	2988.	4100.	0.	0.	0.	.73	62.	24.1	C	19.9	4.8
12	3	2560.	692.	0.	3680.	692.	0.	3680.	5528.	72.	0.	0.	.67	62.	19.8	C	17.2	4.8
13	3	1400.	0.	432.	3680.	0.	432.	3680.	5528.	72.	0.	0.	.67	62.	19.8	C	32.3	4.8
14	2	1320.	0.	0.	3248.	0.	0.	3248.	4400.	0.	0.	0.	.74	62.	26.3	D	15.0	4.7
15	3	540.	524.	1176.	3772.	524.	1176.	3772.	5240.	360.	0.	0.	.72	62.	20.3	C	12.6	4.8
16	2	1230.	0.	0.	2596.	0.	0.	2596.	4400.	0.	0.	0.	.59	62.	20.9	C	19.9	4.8
17	2	890.	564.	0.	3160.	564.	0.	3160.	4400.	0.	0.	0.	.72	62.	25.5	C	20.0	4.7
18	3	4840.	236.	556.	3396.	236.	556.	3396.	5577.	23.	0.	0.	.61	62.	18.3	C	17.2	4.8
19	2	530.	0.	0.	2840.	0.	0.	2840.	3800.	0.	0.	0.	.75	62.	22.9	C	19.9	4.8
20	2	1040.	444.	0.	3284.	444.	0.	3284.	4387.	13.	0.	0.	.75	62.	26.6	D	20.1	4.6
21	3	2810.	624.	852.	3908.	624.	852.	3908.	5450.	150.	0.	0.	.72	62.	21.0	C	24.1	4.8
22	2	1850.	0.	0.	3056.	0.	0.	3056.	4400.	0.	0.	0.	.69	62.	24.6	C	17.2	4.8
23	3	2390.	308.	180.	3364.	308.	180.	3364.	5564.	36.	0.	0.	.60	62.	18.1	C	24.1	4.8
24	3	960.	0.	1568.	3184.	0.	1500.	3184.	5598.	2.	0.	0.	.57	62.	17.1	B	17.2	4.8
25	2	1400.	0.	1616.	1616.	0.	1616.	1616.	3600.	0.	0.	0.	.45	62.	13.0	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.87		LOWEST LOS = D	AVG = 62.	22.0		17.0	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	162. PASS-HRS	1477. VEH-HRS	1838. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	23. VEH-HRS	29. PASS-HRS	143. VEH-HRS	178. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	153. VEH-HRS	191. PASS-HRS	1620. VEH-HRS	2016. PASS-HRS
TOTAL TRAV DISTANCE =	8020. VEH-MI.	9977. PASS-MI.	91008. VEH-MI.	113214. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		23. VPMPL	
TOTAL FUEL =	482. GALLONS		5358. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		424. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	102.	23.37	8.85	0.14	0.84	0.15	1.12

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2624.	108.	2624.	2624.	108.	2624.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2516.	0.	0.	2516.	4100.	0.	0.	0.	.61	62.	20.3	C	13.6	4.8
3	2	1830.	272.	196.	2788.	272.	196.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
4	2	2010.	0.	0.	2592.	0.	0.	2592.	4400.	0.	0.	0.	.59	62.	20.9	C	13.6	4.8
5	2	2445.	548.	504.	3140.	548.	504.	3140.	3996.	104.	0.	0.	.79	61.	25.6	C	13.8	4.3
6	2	1890.	0.	0.	2636.	0.	0.	2636.	4400.	0.	0.	0.	.60	62.	21.3	C	13.6	4.8
7	2	5320.	404.	540.	3040.	404.	540.	3040.	4100.	0.	0.	0.	.74	62.	24.5	C	13.6	4.8
8	2	880.	0.	0.	2500.	0.	0.	2500.	4400.	0.	0.	0.	.57	62.	20.2	C	14.9	4.8
9	2	1125.	144.	0.	2644.	144.	0.	2644.	4400.	0.	0.	0.	.60	62.	21.3	C	19.9	4.8
10	3	6320.	488.	336.	3132.	488.	336.	3132.	5600.	0.	0.	0.	.56	62.	16.8	B	19.9	4.8
11	2	2050.	0.	0.	2796.	0.	0.	2796.	4100.	0.	0.	0.	.68	62.	22.5	C	19.9	4.8
12	3	2560.	772.	0.	3568.	772.	0.	3568.	5505.	95.	0.	0.	.65	62.	19.2	C	17.2	4.8
13	3	1400.	0.	524.	3568.	0.	524.	3568.	5505.	95.	0.	0.	.65	62.	19.2	C	32.3	4.8
14	2	1320.	0.	0.	3044.	0.	0.	3044.	4400.	0.	0.	0.	.69	62.	24.5	C	14.9	4.8
15	3	540.	548.	1200.	3592.	548.	1200.	3592.	5236.	364.	0.	0.	.69	62.	19.3	C	12.6	4.8
16	2	1230.	0.	0.	2392.	0.	0.	2392.	4400.	0.	0.	0.	.54	62.	19.3	C	19.9	4.8
17	2	890.	560.	0.	2952.	560.	0.	2952.	4400.	0.	0.	0.	.67	62.	23.8	C	19.9	4.8
18	3	4840.	120.	456.	3072.	120.	456.	3072.	5586.	14.	0.	0.	.55	62.	16.5	B	17.2	4.8
19	2	530.	0.	0.	2616.	0.	0.	2616.	3800.	0.	0.	0.	.69	62.	21.1	C	19.9	4.8
20	2	1040.	424.	0.	3040.	424.	0.	3040.	4391.	9.	0.	0.	.69	62.	24.5	C	19.9	4.8
21	3	2810.	728.	844.	3768.	728.	844.	3768.	5413.	187.	0.	0.	.70	62.	20.3	C	24.1	4.8
22	2	1850.	0.	0.	2924.	0.	0.	2924.	4400.	0.	0.	0.	.66	62.	23.6	C	17.2	4.8
23	3	2390.	336.	168.	3260.	336.	168.	3260.	5587.	13.	0.	0.	.58	62.	17.5	B	24.1	4.8
24	3	960.	0.	1740.	3092.	0.	1500.	3092.	5600.	0.	0.	0.	.55	62.	16.6	B	17.2	4.8
25	2	1400.	0.	1352.	1352.	0.	1352.	1352.	3600.	0.	0.	0.	.38	62.	10.9	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.79		LOWEST LOS = C	AVG = 62.	20.3		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	120. VEH-HRS	150. PASS-HRS	1598. VEH-HRS	1987. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	33. VEH-HRS	41. PASS-HRS	176. VEH-HRS	219. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	153. VEH-HRS	191. PASS-HRS	1774. VEH-HRS	2206. PASS-HRS
TOTAL TRAV DISTANCE =	7455. VEH-MI.	9274. PASS-MI.	98463. VEH-MI.	122488. PASS-MI.
AVERAGE SYSTEM SPEED =	49. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	453. GALLONS		5811. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		461. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	162.	33.00	12.50	0.19	1.18	0.21	1.58

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2784.	172.	2784.	2784.	172.	2784.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
2	2	1970.	0.	0.	2612.	0.	0.	2612.	4100.	0.	0.	0.	.64	62.	21.1	C	13.6	4.8
3	2	1830.	320.	160.	2932.	320.	160.	2932.	4100.	0.	0.	0.	.72	62.	23.6	C	13.6	4.8
4	2	2010.	0.	0.	2772.	0.	0.	2772.	4400.	0.	0.	0.	.63	62.	22.4	C	13.6	4.8
5	2	2445.	444.	544.	3216.	444.	544.	3216.	4045.	55.	0.	0.	.80	61.	26.3	D	13.8	4.3
6	2	1890.	0.	0.	2672.	0.	0.	2672.	4400.	0.	0.	0.	.61	62.	21.5	C	13.6	4.8
7	2	5320.	552.	512.	3224.	552.	512.	3224.	4100.	0.	0.	0.	.79	61.	26.3	D	13.8	4.3
8	2	880.	0.	0.	2712.	0.	0.	2712.	4400.	0.	0.	0.	.62	62.	21.9	C	14.9	4.8
9	2	1125.	232.	0.	2944.	232.	0.	2944.	4400.	0.	0.	0.	.67	62.	23.7	C	19.9	4.8
10	3	6320.	532.	476.	3476.	532.	476.	3476.	5599.	1.	0.	0.	.62	62.	18.7	C	19.9	4.8
11	2	2050.	0.	0.	3000.	0.	0.	3000.	4100.	0.	0.	0.	.73	62.	24.2	C	19.9	4.8
12	3	2560.	760.	0.	3760.	760.	0.	3760.	5517.	83.	0.	0.	.68	62.	20.2	C	17.2	4.8
13	3	1400.	0.	460.	3760.	0.	460.	3760.	5517.	83.	0.	0.	.68	62.	20.2	C	32.3	4.8
14	2	1320.	0.	0.	3300.	0.	0.	3300.	4400.	0.	0.	0.	.75	62.	26.7	D	15.0	4.6
15	3	540.	764.	1252.	4064.	764.	1252.	4064.	5072.	528.	0.	0.	.80	62.	21.8	C	12.6	4.8
16	2	1230.	0.	0.	2812.	0.	0.	2812.	4400.	0.	0.	0.	.64	62.	22.7	C	19.9	4.8
17	2	890.	668.	0.	3480.	668.	0.	3480.	4400.	0.	0.	0.	.79	61.	28.4	D	20.3	4.3
18	3	4840.	172.	480.	3652.	172.	480.	3652.	5567.	33.	0.	0.	.66	62.	19.6	C	17.2	4.8
19	2	530.	0.	0.	3172.	0.	0.	3172.	3800.	0.	0.	0.	.83	60.	26.3	D	20.8	3.7
20	2	1040.	496.	0.	3668.	496.	0.	3668.	4381.	19.	0.	0.	.84	60.	30.5	D	20.9	3.7
21	3	2810.	788.	888.	4456.	788.	888.	4456.	5250.	350.	0.	0.	.85	62.	24.0	C	24.1	4.8
22	2	1850.	0.	0.	3568.	0.	0.	3568.	4400.	0.	0.	0.	.81	61.	29.4	D	17.7	4.1
23	3	2390.	396.	132.	3964.	396.	132.	3964.	5508.	92.	0.	0.	.72	62.	21.3	C	24.1	4.8
24	3	960.	0.	1712.	3832.	0.	1500.	3832.	5573.	27.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	2120.	2120.	0.	2120.	2120.	3600.	0.	0.	0.	.59	62.	17.1	B	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.85	LOWEST LOS = D		AVG = 62.	22.7	17.1	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	168. PASS-HRS	1732. VEH-HRS	2155. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	47. VEH-HRS	59. PASS-HRS	223. VEH-HRS	278. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	182. VEH-HRS	226. PASS-HRS	1956. VEH-HRS	2433. PASS-HRS
TOTAL TRAV DISTANCE =	8326. VEH-MI.	10357. PASS-MI.	106789. VEH-MI.	132845. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	504. GALLONS		6315. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		502. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	215.	47.12	17.85	0.27	1.69	0.29	2.25

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2968.	152.	2968.	2968.	152.	2968.	4100.	0.	0.	0.	.72	62.	23.9	C	13.6	4.8
2	2	1970.	0.	0.	2816.	0.	0.	2816.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
3	2	1830.	368.	240.	3184.	368.	240.	3184.	4100.	0.	0.	0.	.78	61.	25.9	C	13.7	4.4
4	2	2010.	0.	0.	2944.	0.	0.	2944.	4400.	0.	0.	0.	.67	62.	23.7	C	13.6	4.8
5	2	2445.	540.	632.	3484.	540.	632.	3484.	3902.	198.	0.	0.	.89	58.	30.0	D	14.5	3.2
6	2	1890.	0.	0.	2852.	0.	0.	2852.	4400.	0.	0.	0.	.65	62.	23.0	C	13.6	4.8
7	2	5320.	516.	760.	3368.	516.	760.	3368.	4100.	0.	0.	0.	.82	61.	27.8	D	14.0	3.9
8	2	880.	0.	0.	2608.	0.	0.	2608.	4400.	0.	0.	0.	.59	62.	21.0	C	14.9	4.8
9	2	1125.	128.	0.	2736.	128.	0.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	19.9	4.8
10	3	6320.	432.	488.	3168.	432.	488.	3168.	5600.	0.	0.	0.	.57	62.	17.0	B	19.9	4.8
11	2	2050.	0.	0.	2680.	0.	0.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	19.9	4.8
12	3	2560.	700.	0.	3380.	700.	0.	3380.	5501.	99.	0.	0.	.61	62.	18.2	C	17.2	4.8
13	3	1400.	0.	640.	3380.	0.	640.	3380.	5501.	99.	0.	0.	.61	62.	18.2	C	32.3	4.8
14	2	1320.	0.	0.	2740.	0.	0.	2740.	4400.	0.	0.	0.	.62	62.	22.1	C	14.9	4.8
15	3	540.	788.	1284.	3528.	788.	1284.	3528.	5100.	500.	0.	0.	.69	62.	19.0	C	12.6	4.8
16	2	1230.	0.	0.	2244.	0.	0.	2244.	4400.	0.	0.	0.	.51	62.	18.1	C	19.9	4.8
17	2	890.	592.	0.	2836.	592.	0.	2836.	4400.	0.	0.	0.	.64	62.	22.9	C	19.9	4.8
18	3	4840.	164.	464.	3000.	164.	464.	3000.	5592.	8.	0.	0.	.54	62.	16.1	B	17.2	4.8
19	2	530.	0.	0.	2536.	0.	0.	2536.	3800.	0.	0.	0.	.67	62.	20.5	C	19.9	4.8
20	2	1040.	428.	0.	2964.	428.	0.	2964.	4394.	6.	0.	0.	.67	62.	23.9	C	19.9	4.8
21	3	2810.	700.	916.	3664.	700.	916.	3664.	5399.	201.	0.	0.	.68	62.	19.7	C	24.1	4.8
22	2	1850.	0.	0.	2748.	0.	0.	2748.	4400.	0.	0.	0.	.62	62.	22.2	C	17.2	4.8
23	3	2390.	360.	192.	3108.	360.	192.	3108.	5600.	0.	0.	0.	.56	62.	16.7	B	24.1	4.8
24	3	960.	0.	1712.	2916.	0.	1500.	2916.	5600.	0.	0.	0.	.52	62.	15.7	B	17.2	4.8
25	2	1400.	0.	1204.	1204.	0.	1204.	1204.	3600.	0.	0.	0.	.33	62.	9.7	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 62.	21.0		16.9	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	123. VEH-HRS	154. PASS-HRS	1856. VEH-HRS	2309. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	60. VEH-HRS	75. PASS-HRS	283. VEH-HRS	353. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	184. VEH-HRS	229. PASS-HRS	2139. VEH-HRS	2661. PASS-HRS
TOTAL TRAV DISTANCE =	7601. VEH-MI.	9455. PASS-MI.	114390. VEH-MI.	142301. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		22. VPMPL	
TOTAL FUEL =	474. GALLONS		6789. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		540. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	268.	60.37	22.87	0.35	2.16	0.38	2.89

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2540.	144.	2540.	2540.	144.	2540.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
2	2	1970.	0.	0.	2396.	0.	0.	2396.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
3	2	1830.	320.	232.	2716.	320.	232.	2716.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
4	2	2010.	0.	0.	2484.	0.	0.	2484.	4400.	0.	0.	0.	.56	62.	20.0	C	13.6	4.8
5	2	2445.	728.	444.	3212.	728.	444.	3212.	3945.	155.	0.	0.	.81	61.	26.5	D	13.9	4.0
6	2	1890.	0.	0.	2768.	0.	0.	2768.	4400.	0.	0.	0.	.63	62.	22.3	C	13.6	4.8
7	2	5320.	488.	724.	3256.	488.	724.	3256.	4100.	0.	0.	0.	.79	61.	26.6	D	13.8	4.3
8	2	880.	0.	0.	2532.	0.	0.	2532.	4400.	0.	0.	0.	.58	62.	20.4	C	14.9	4.8
9	2	1125.	148.	0.	2680.	148.	0.	2680.	4400.	0.	0.	0.	.61	62.	21.6	C	19.9	4.8
10	3	6320.	420.	392.	3100.	420.	392.	3100.	5600.	0.	0.	0.	.55	62.	16.7	B	19.9	4.8
11	2	2050.	0.	0.	2708.	0.	0.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	19.9	4.8
12	3	2560.	676.	0.	3384.	676.	0.	3384.	5532.	68.	0.	0.	.61	62.	18.2	C	17.2	4.8
13	3	1400.	0.	404.	3384.	0.	404.	3384.	5532.	68.	0.	0.	.61	62.	18.2	C	32.3	4.8
14	2	1320.	0.	0.	2980.	0.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	14.9	4.8
15	3	540.	724.	1312.	3704.	724.	1312.	3704.	5132.	468.	0.	0.	.72	62.	19.9	C	12.6	4.8
16	2	1230.	0.	0.	2392.	0.	0.	2392.	4400.	0.	0.	0.	.54	62.	19.3	C	19.9	4.8
17	2	890.	452.	0.	2844.	452.	0.	2844.	4400.	0.	0.	0.	.65	62.	22.9	C	19.9	4.8
18	3	4840.	172.	404.	3016.	172.	404.	3016.	5590.	10.	0.	0.	.54	62.	16.2	B	17.2	4.8
19	2	530.	0.	0.	2612.	0.	0.	2612.	3800.	0.	0.	0.	.69	62.	21.1	C	19.9	4.8
20	2	1040.	504.	0.	3116.	504.	0.	3116.	4390.	10.	0.	0.	.71	62.	25.2	C	20.0	4.7
21	3	2810.	544.	788.	3660.	544.	788.	3660.	5527.	73.	0.	0.	.66	62.	19.7	C	24.1	4.8
22	2	1850.	0.	0.	2872.	0.	0.	2872.	4400.	0.	0.	0.	.65	62.	23.2	C	17.2	4.8
23	3	2390.	360.	176.	3232.	360.	176.	3232.	5581.	19.	0.	0.	.58	62.	17.4	B	24.1	4.8
24	3	960.	0.	1624.	3056.	0.	1500.	3056.	5600.	0.	0.	0.	.55	62.	16.4	B	17.2	4.8
25	2	1400.	0.	1432.	1432.	0.	1432.	1432.	3600.	0.	0.	0.	.40	62.	11.5	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 62.	20.3		16.9	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	120. VEH-HRS	149. PASS-HRS	1976. VEH-HRS	2458. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	71. VEH-HRS	88. PASS-HRS	354. VEH-HRS	441. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	191. VEH-HRS	237. PASS-HRS	2330. VEH-HRS	2899. PASS-HRS
TOTAL TRAV DISTANCE =	7405. VEH-MI.	9212. PASS-MI.	121795. VEH-MI.	151513. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	464. GALLONS		7253. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		578. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	299.	70.87	26.84	0.41	2.54	0.44	3.39

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2276.	140.	2276.	2276.	140.	2276.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
2	2	1970.	0.	0.	2136.	0.	0.	2136.	4100.	0.	0.	0.	.52	62.	17.2	B	13.6	4.8
3	2	1830.	268.	164.	2404.	268.	164.	2404.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
4	2	2010.	0.	0.	2240.	0.	0.	2240.	4400.	0.	0.	0.	.51	62.	18.1	C	13.6	4.8
5	2	2445.	672.	464.	2912.	672.	464.	2912.	3975.	125.	0.	0.	.73	62.	23.5	C	13.6	4.8
6	2	1890.	0.	0.	2448.	0.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	13.6	4.8
7	2	5320.	388.	684.	2836.	388.	684.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
8	2	880.	0.	0.	2152.	0.	0.	2152.	4400.	0.	0.	0.	.49	62.	17.4	B	14.9	4.8
9	2	1125.	120.	0.	2272.	120.	0.	2272.	4400.	0.	0.	0.	.52	62.	18.3	C	19.9	4.8
10	3	6320.	416.	468.	2688.	416.	468.	2688.	5600.	0.	0.	0.	.48	62.	14.5	B	19.9	4.8
11	2	2050.	0.	0.	2220.	0.	0.	2220.	4100.	0.	0.	0.	.54	62.	17.9	B	19.9	4.8
12	3	2560.	708.	0.	2928.	708.	0.	2928.	5542.	58.	0.	0.	.53	62.	15.7	B	17.2	4.8
13	3	1400.	0.	396.	2928.	0.	396.	2928.	5542.	58.	0.	0.	.53	62.	15.7	B	32.3	4.8
14	2	1320.	0.	0.	2532.	0.	0.	2532.	4400.	0.	0.	0.	.58	62.	20.4	C	14.9	4.8
15	3	540.	728.	1272.	3260.	728.	1272.	3260.	5156.	444.	0.	0.	.63	62.	17.5	B	12.6	4.8
16	2	1230.	0.	0.	1988.	0.	0.	1988.	4400.	0.	0.	0.	.45	62.	16.0	B	19.9	4.8
17	2	890.	624.	0.	2612.	624.	0.	2612.	4400.	0.	0.	0.	.59	62.	21.1	C	19.9	4.8
18	3	4840.	120.	544.	2732.	120.	544.	2732.	5600.	0.	0.	0.	.49	62.	14.7	B	17.2	4.8
19	2	530.	0.	0.	2188.	0.	0.	2188.	3800.	0.	0.	0.	.58	62.	17.6	B	19.9	4.8
20	2	1040.	416.	0.	2604.	416.	0.	2604.	4400.	0.	0.	0.	.59	62.	21.0	C	19.9	4.8
21	3	2810.	572.	792.	3176.	572.	792.	3176.	5577.	23.	0.	0.	.57	62.	17.1	B	24.1	4.8
22	2	1850.	0.	0.	2384.	0.	0.	2384.	4400.	0.	0.	0.	.54	62.	19.2	C	17.2	4.8
23	3	2390.	320.	140.	2704.	320.	140.	2704.	5600.	0.	0.	0.	.48	62.	14.5	B	24.1	4.8
24	3	960.	0.	1348.	2564.	0.	1500.	2564.	5600.	0.	0.	0.	.46	62.	13.8	B	17.2	4.8
25	2	1400.	0.	1216.	1216.	0.	1216.	1216.	3600.	0.	0.	0.	.34	62.	9.8	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.73		LOWEST LOS = C	AVG = 62.	17.6		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	104. VEH-HRS	129. PASS-HRS	2080. VEH-HRS	2587. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	70. VEH-HRS	87. PASS-HRS	424. VEH-HRS	528. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	174. VEH-HRS	216. PASS-HRS	2504. VEH-HRS	3115. PASS-HRS
TOTAL TRAV DISTANCE =	6448. VEH-MI.	8022. PASS-MI.	128244. VEH-MI.	159535. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		62. MPH.	
AVERAGE DENSITY =	18. VPMPL		22. VPMPL	
TOTAL FUEL =	410. GALLONS		7664. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		612. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	261.	70.00	26.51	0.41	2.50	0.44	3.35

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1836.	144.	1836.	1836.	144.	1836.	4100.	0.	0.	0.	.45	62.	14.8	B	13.6	4.8
2	2	1970.	0.	0.	1692.	0.	0.	1692.	4100.	0.	0.	0.	.41	62.	13.6	B	13.6	4.8
3	2	1830.	256.	188.	1948.	256.	188.	1948.	4100.	0.	0.	0.	.48	62.	15.7	B	13.6	4.8
4	2	2010.	0.	0.	1760.	0.	0.	1760.	4400.	0.	0.	0.	.40	62.	14.2	B	13.6	4.8
5	2	2445.	524.	396.	2284.	524.	396.	2284.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
6	2	1890.	0.	0.	1888.	0.	0.	1888.	4400.	0.	0.	0.	.43	62.	15.2	B	13.6	4.8
7	2	5320.	388.	444.	2276.	388.	444.	2276.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
8	2	880.	0.	0.	1832.	0.	0.	1832.	4400.	0.	0.	0.	.42	62.	14.8	B	14.9	4.8
9	2	1125.	108.	0.	1940.	108.	0.	1940.	4400.	0.	0.	0.	.44	62.	15.6	B	19.9	4.8
10	3	6320.	360.	260.	2300.	360.	260.	2300.	5600.	0.	0.	0.	.41	62.	12.4	B	19.9	4.8
11	2	2050.	0.	0.	2040.	0.	0.	2040.	4100.	0.	0.	0.	.50	62.	16.5	B	19.9	4.8
12	3	2560.	592.	0.	2632.	592.	0.	2632.	5558.	42.	0.	0.	.47	62.	14.2	B	17.2	4.8
13	3	1400.	0.	368.	2632.	0.	368.	2632.	5558.	42.	0.	0.	.47	62.	14.2	B	32.3	4.8
14	2	1320.	0.	0.	2264.	0.	0.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	14.9	4.8
15	3	540.	656.	1016.	2920.	656.	1016.	2920.	5172.	428.	0.	0.	.56	62.	15.7	B	12.6	4.8
16	2	1230.	0.	0.	1904.	0.	0.	1904.	4400.	0.	0.	0.	.43	62.	15.4	B	19.9	4.8
17	2	890.	596.	0.	2500.	596.	0.	2500.	4400.	0.	0.	0.	.57	62.	20.2	C	19.9	4.8
18	3	4840.	120.	436.	2620.	120.	436.	2620.	5600.	0.	0.	0.	.47	62.	14.1	B	17.2	4.8
19	2	530.	0.	0.	2184.	0.	0.	2184.	3800.	0.	0.	0.	.57	62.	17.6	B	19.9	4.8
20	2	1040.	392.	0.	2576.	392.	0.	2576.	4400.	0.	0.	0.	.59	62.	20.8	C	19.9	4.8
21	3	2810.	444.	736.	3020.	444.	736.	3020.	5579.	21.	0.	0.	.54	62.	16.2	B	24.1	4.8
22	2	1850.	0.	0.	2284.	0.	0.	2284.	4400.	0.	0.	0.	.52	62.	18.4	C	17.2	4.8
23	3	2390.	272.	112.	2556.	272.	112.	2556.	5600.	0.	0.	0.	.46	62.	13.7	B	24.1	4.8
24	3	960.	0.	1412.	2444.	0.	1500.	2444.	5600.	0.	0.	0.	.44	62.	13.1	B	17.2	4.8
25	2	1400.	0.	1032.	1032.	0.	1032.	1032.	3600.	0.	0.	0.	.29	62.	8.3	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.59 LOWEST LOS = C AVG = 62. 15.3 17.0 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	91. VEH-HRS	113. PASS-HRS	2171. VEH-HRS	2700. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	62. VEH-HRS	78. PASS-HRS	487. VEH-HRS	606. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	153. VEH-HRS	191. PASS-HRS	2658. VEH-HRS	3306. PASS-HRS
TOTAL TRAV DISTANCE =	5641. VEH-MI.	7017. PASS-MI.	133884. VEH-MI.	166552. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		62. MPH.	
AVERAGE DENSITY =	15. VPMPL		22. VPMPL	
TOTAL FUEL =	355. GALLONS		8019. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		642. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	239.	62.50	23.67	0.36	2.24	0.39	2.99

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1924.	100.	1924.	1924.	100.	1924.	4100.	0.	0.	0.	.47	62.	15.5	B	13.6	4.8
2	2	1970.	0.	0.	1824.	0.	0.	1824.	4100.	0.	0.	0.	.44	62.	14.7	B	13.6	4.8
3	2	1830.	252.	128.	2076.	252.	128.	2076.	4100.	0.	0.	0.	.51	62.	16.7	B	13.6	4.8
4	2	2010.	0.	0.	1948.	0.	0.	1948.	4400.	0.	0.	0.	.44	62.	15.7	B	13.6	4.8
5	2	2445.	436.	404.	2384.	436.	404.	2384.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
6	2	1890.	0.	0.	1980.	0.	0.	1980.	4400.	0.	0.	0.	.45	62.	16.0	B	13.6	4.8
7	2	5320.	308.	572.	2288.	308.	572.	2288.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
8	2	880.	0.	0.	1716.	0.	0.	1716.	4400.	0.	0.	0.	.39	62.	13.8	B	14.9	4.8
9	2	1125.	136.	0.	1852.	136.	0.	1852.	4400.	0.	0.	0.	.42	62.	14.9	B	19.9	4.8
10	3	6320.	376.	356.	2228.	376.	356.	2228.	5600.	0.	0.	0.	.40	62.	12.0	B	19.9	4.8
11	2	2050.	0.	0.	1872.	0.	0.	1872.	4100.	0.	0.	0.	.46	62.	15.1	B	19.9	4.8
12	3	2560.	520.	0.	2392.	520.	0.	2392.	5579.	21.	0.	0.	.43	62.	12.9	B	17.2	4.8
13	3	1400.	0.	280.	2392.	0.	280.	2392.	5579.	21.	0.	0.	.43	62.	12.9	B	32.3	4.8
14	2	1320.	0.	0.	2112.	0.	0.	2112.	4400.	0.	0.	0.	.48	62.	17.0	B	14.9	4.8
15	3	540.	656.	1004.	2768.	656.	1004.	2768.	5180.	420.	0.	0.	.53	62.	14.9	B	12.6	4.8
16	2	1230.	0.	0.	1764.	0.	0.	1764.	4400.	0.	0.	0.	.40	62.	14.2	B	19.9	4.8
17	2	890.	564.	0.	2328.	564.	0.	2328.	4400.	0.	0.	0.	.53	62.	18.8	C	19.9	4.8
18	3	4840.	192.	412.	2520.	192.	412.	2520.	5600.	0.	0.	0.	.45	62.	13.5	B	17.2	4.8
19	2	530.	0.	0.	2108.	0.	0.	2108.	3800.	0.	0.	0.	.55	62.	17.0	B	19.9	4.8
20	2	1040.	408.	0.	2516.	408.	0.	2516.	4400.	0.	0.	0.	.57	62.	20.3	C	19.9	4.8
21	3	2810.	456.	736.	2972.	456.	736.	2972.	5582.	18.	0.	0.	.53	62.	16.0	B	24.1	4.8
22	2	1850.	0.	0.	2236.	0.	0.	2236.	4400.	0.	0.	0.	.51	62.	18.0	C	17.2	4.8
23	3	2390.	232.	104.	2468.	232.	104.	2468.	5600.	0.	0.	0.	.44	62.	13.3	B	24.1	4.8
24	3	960.	0.	1240.	2364.	0.	1500.	2364.	5600.	0.	0.	0.	.42	62.	12.7	B	17.2	4.8
25	2	1400.	0.	1124.	1124.	0.	1124.	1124.	3600.	0.	0.	0.	.31	62.	9.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.58		LOWEST LOS = C	AVG = 62.	15.1		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	90. VEH-HRS	111. PASS-HRS	2260. VEH-HRS	2812. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	52. VEH-HRS	64. PASS-HRS	538. VEH-HRS	670. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	141. VEH-HRS	176. PASS-HRS	2799. VEH-HRS	3482. PASS-HRS
TOTAL TRAV DISTANCE =	5552. VEH-MI.	6907. PASS-MI.	139437. VEH-MI.	173459. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		62. MPH.	
AVERAGE DENSITY =	15. VPMPL		21. VPMPL	
TOTAL FUEL =	348. GALLONS		8367. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		671. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	174.	51.62	19.55	0.30	1.85	0.32	2.47

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1740.	108.	1740.	1740.	108.	1740.	4100.	0.	0.	0.	.42	62.	14.0	B	13.6	4.8
2	2	1970.	0.	0.	1632.	0.	0.	1632.	4100.	0.	0.	0.	.40	62.	13.2	B	13.6	4.8
3	2	1830.	280.	128.	1912.	280.	128.	1912.	4100.	0.	0.	0.	.47	62.	15.4	B	13.6	4.8
4	2	2010.	0.	0.	1784.	0.	0.	1784.	4400.	0.	0.	0.	.41	62.	14.4	B	13.6	4.8
5	2	2445.	484.	392.	2268.	484.	392.	2268.	4100.	0.	0.	0.	.55	62.	18.3	C	13.6	4.8
6	2	1890.	0.	0.	1876.	0.	0.	1876.	4400.	0.	0.	0.	.43	62.	15.1	B	13.6	4.8
7	2	5320.	352.	452.	2228.	352.	452.	2228.	4100.	0.	0.	0.	.54	62.	18.0	B	13.6	4.8
8	2	880.	0.	0.	1776.	0.	0.	1776.	4400.	0.	0.	0.	.40	62.	14.3	B	14.9	4.8
9	2	1125.	200.	0.	1976.	200.	0.	1976.	4400.	0.	0.	0.	.45	62.	15.9	B	19.9	4.8
10	3	6320.	280.	284.	2256.	280.	284.	2256.	5600.	0.	0.	0.	.40	62.	12.1	B	19.9	4.8
11	2	2050.	0.	0.	1972.	0.	0.	1972.	4100.	0.	0.	0.	.48	62.	15.9	B	19.9	4.8
12	3	2560.	468.	0.	2440.	468.	0.	2440.	5571.	29.	0.	0.	.44	62.	13.1	B	17.2	4.8
13	3	1400.	0.	324.	2440.	0.	324.	2440.	5571.	29.	0.	0.	.44	62.	13.1	B	32.3	4.8
14	2	1320.	0.	0.	2116.	0.	0.	2116.	4400.	0.	0.	0.	.48	62.	17.1	B	14.9	4.8
15	3	540.	568.	1004.	2684.	568.	1004.	2684.	5244.	356.	0.	0.	.51	62.	14.4	B	12.6	4.8
16	2	1230.	0.	0.	1680.	0.	0.	1680.	4400.	0.	0.	0.	.38	62.	13.5	B	19.9	4.8
17	2	890.	540.	0.	2220.	540.	0.	2220.	4400.	0.	0.	0.	.50	62.	17.9	B	19.9	4.8
18	3	4840.	200.	380.	2420.	200.	380.	2420.	5600.	0.	0.	0.	.43	62.	13.0	B	17.2	4.8
19	2	530.	0.	0.	2040.	0.	0.	2040.	3800.	0.	0.	0.	.54	62.	16.5	B	19.9	4.8
20	2	1040.	300.	0.	2340.	300.	0.	2340.	4400.	0.	0.	0.	.53	62.	18.9	C	19.9	4.8
21	3	2810.	372.	576.	2712.	372.	576.	2712.	5588.	12.	0.	0.	.49	62.	14.6	B	24.1	4.8
22	2	1850.	0.	0.	2136.	0.	0.	2136.	4400.	0.	0.	0.	.49	62.	17.2	B	17.2	4.8
23	3	2390.	248.	124.	2384.	248.	124.	2384.	5600.	0.	0.	0.	.43	62.	12.8	B	24.1	4.8
24	3	960.	0.	1016.	2260.	0.	1500.	2260.	5600.	0.	0.	0.	.40	62.	12.2	B	17.2	4.8
25	2	1400.	0.	1244.	1244.	0.	1244.	1244.	3600.	0.	0.	0.	.35	62.	10.0	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.55 LOWEST LOS = C AVG = 62. 14.6 17.0 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	87. VEH-HRS	108. PASS-HRS	2347. VEH-HRS	2920. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	28. VEH-HRS	35. PASS-HRS	567. VEH-HRS	705. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	115. VEH-HRS	143. PASS-HRS	2914. VEH-HRS	3625. PASS-HRS
TOTAL TRAV DISTANCE =	5379. VEH-MI.	6691. PASS-MI.	144815. VEH-MI.	180150. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		62. MPH.	
AVERAGE DENSITY =	15. VPMPL		21. VPMPL	
TOTAL FUEL =	328. GALLONS		8695. GALLONS	
TOTAL EMISSIONS =	27. KILOGRAMS		698. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	53.	28.37	10.75	0.17	1.02	0.18	1.36

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1628.	76.	1628.	1628.	76.	1628.	4100.	0.	0.	0.	.40	62.	13.1	B	13.6	4.8
2	2	1970.	0.	0.	1552.	0.	0.	1552.	4100.	0.	0.	0.	.38	62.	12.5	B	13.6	4.8
3	2	1830.	240.	156.	1792.	240.	156.	1792.	4100.	0.	0.	0.	.44	62.	14.5	B	13.6	4.8
4	2	2010.	0.	0.	1636.	0.	0.	1636.	4400.	0.	0.	0.	.37	62.	13.2	B	13.6	4.8
5	2	2445.	312.	328.	1948.	312.	328.	1948.	4100.	0.	0.	0.	.48	62.	15.7	B	13.6	4.8
6	2	1890.	0.	0.	1620.	0.	0.	1620.	4400.	0.	0.	0.	.37	62.	13.1	B	13.6	4.8
7	2	5320.	404.	472.	2024.	404.	472.	2024.	4100.	0.	0.	0.	.49	62.	16.3	B	13.6	4.8
8	2	880.	0.	0.	1552.	0.	0.	1552.	4400.	0.	0.	0.	.35	62.	12.5	B	14.9	4.8
9	2	1125.	144.	0.	1696.	144.	0.	1696.	4400.	0.	0.	0.	.39	62.	13.7	B	19.9	4.8
10	3	6320.	312.	384.	2008.	312.	384.	2008.	5600.	0.	0.	0.	.36	62.	10.8	A	19.9	4.8
11	2	2050.	0.	0.	1624.	0.	0.	1624.	4100.	0.	0.	0.	.40	62.	13.1	B	19.9	4.8
12	3	2560.	412.	0.	2036.	412.	0.	2036.	5600.	0.	0.	0.	.36	62.	10.9	A	17.2	4.8
13	3	1400.	0.	384.	2036.	0.	384.	2036.	5600.	0.	0.	0.	.36	62.	10.9	A	32.3	4.8
14	2	1320.	0.	0.	1652.	0.	0.	1652.	4400.	0.	0.	0.	.38	62.	13.3	B	14.9	4.8
15	3	540.	688.	872.	2340.	688.	872.	2340.	5168.	432.	0.	0.	.45	62.	12.6	B	12.6	4.8
16	2	1230.	0.	0.	1468.	0.	0.	1468.	4400.	0.	0.	0.	.33	62.	11.8	B	19.9	4.8
17	2	890.	492.	0.	1960.	492.	0.	1960.	4400.	0.	0.	0.	.45	62.	15.8	B	19.9	4.8
18	3	4840.	192.	328.	2152.	192.	328.	2152.	5600.	0.	0.	0.	.38	62.	11.6	B	17.2	4.8
19	2	530.	0.	0.	1824.	0.	0.	1824.	3800.	0.	0.	0.	.48	62.	14.7	B	19.9	4.8
20	2	1040.	304.	0.	2128.	304.	0.	2128.	4400.	0.	0.	0.	.48	62.	17.2	B	19.9	4.8
21	3	2810.	368.	732.	2496.	368.	732.	2496.	5600.	0.	0.	0.	.45	62.	13.4	B	24.1	4.8
22	2	1850.	0.	0.	1764.	0.	0.	1764.	4400.	0.	0.	0.	.40	62.	14.2	B	17.2	4.8
23	3	2390.	192.	96.	1956.	192.	96.	1956.	5600.	0.	0.	0.	.35	62.	10.5	A	24.1	4.8
24	3	960.	0.	1132.	1860.	0.	1132.	1860.	5600.	0.	0.	0.	.33	62.	10.0	A	17.2	4.8
25	2	1400.	0.	728.	728.	0.	728.	728.	3600.	0.	0.	0.	.20	62.	5.9	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.49 LOWEST LOS = B AVG = 62. 12.8 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	76. VEH-HRS	94. PASS-HRS	2423. VEH-HRS	3014. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	7. VEH-HRS	8. PASS-HRS	573. VEH-HRS	713. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	83. VEH-HRS	103. PASS-HRS	2996. VEH-HRS	3728. PASS-HRS
TOTAL TRAV DISTANCE =	4709. VEH-MI.	5858. PASS-MI.	149525. VEH-MI.	186008. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		62. MPH.	
AVERAGE DENSITY =	13. VPMPL		20. VPMPL	
TOTAL FUEL =	281. GALLONS		8977. GALLONS	
TOTAL EMISSIONS =	23. KILOGRAMS		721. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	0.	6.62	2.51	0.04	0.24	0.04	0.32

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1176.	68.	1176.	1176.	68.	1176.	4100.	0.	0.	0.	.29	62.	9.5	A	13.6	4.8
2	2	1970.	0.	0.	1108.	0.	0.	1108.	4100.	0.	0.	0.	.27	62.	8.9	A	13.6	4.8
3	2	1830.	236.	108.	1344.	236.	108.	1344.	4100.	0.	0.	0.	.33	62.	10.8	A	13.6	4.8
4	2	2010.	0.	0.	1236.	0.	0.	1236.	4400.	0.	0.	0.	.28	62.	10.0	A	13.6	4.8
5	2	2445.	324.	384.	1560.	324.	384.	1560.	4100.	0.	0.	0.	.38	62.	12.6	B	13.6	4.8
6	2	1890.	0.	0.	1176.	0.	0.	1176.	4400.	0.	0.	0.	.27	62.	9.5	A	13.6	4.8
7	2	5320.	536.	360.	1712.	536.	360.	1712.	4100.	0.	0.	0.	.42	62.	13.8	B	13.6	4.8
8	2	880.	0.	0.	1352.	0.	0.	1352.	4400.	0.	0.	0.	.31	62.	10.9	A	14.9	4.8
9	2	1125.	116.	0.	1468.	116.	0.	1468.	4400.	0.	0.	0.	.33	62.	11.8	B	19.9	4.8
10	3	6320.	296.	304.	1764.	296.	304.	1764.	5600.	0.	0.	0.	.32	62.	9.5	A	19.9	4.8
11	2	2050.	0.	0.	1460.	0.	0.	1460.	4100.	0.	0.	0.	.36	62.	11.8	B	19.9	4.8
12	3	2560.	556.	0.	2016.	556.	0.	2016.	5600.	0.	0.	0.	.36	62.	10.8	A	17.2	4.8
13	3	1400.	0.	304.	2016.	0.	304.	2016.	5600.	0.	0.	0.	.36	62.	10.8	A	32.3	4.8
14	2	1320.	0.	0.	1712.	0.	0.	1712.	4400.	0.	0.	0.	.39	62.	13.8	B	14.9	4.8
15	3	540.	616.	1000.	2328.	616.	1000.	2328.	5248.	352.	0.	0.	.44	62.	12.5	B	12.6	4.8
16	2	1230.	0.	0.	1328.	0.	0.	1328.	4400.	0.	0.	0.	.30	62.	10.7	A	19.9	4.8
17	2	890.	640.	0.	1968.	640.	0.	1968.	4400.	0.	0.	0.	.45	62.	15.9	B	19.9	4.8
18	3	4840.	128.	380.	2096.	128.	380.	2096.	5600.	0.	0.	0.	.37	62.	11.3	B	17.2	4.8
19	2	530.	0.	0.	1716.	0.	0.	1716.	3800.	0.	0.	0.	.45	62.	13.8	B	19.9	4.8
20	2	1040.	256.	0.	1972.	256.	0.	1972.	4400.	0.	0.	0.	.45	62.	15.9	B	19.9	4.8
21	3	2810.	376.	556.	2348.	376.	556.	2348.	5600.	0.	0.	0.	.42	62.	12.6	B	24.1	4.8
22	2	1850.	0.	0.	1792.	0.	0.	1792.	4400.	0.	0.	0.	.41	62.	14.5	B	17.2	4.8
23	3	2390.	220.	112.	2012.	220.	112.	2012.	5600.	0.	0.	0.	.36	62.	10.8	A	24.1	4.8
24	3	960.	0.	1036.	1900.	0.	1036.	1900.	5600.	0.	0.	0.	.34	62.	10.2	A	17.2	4.8
25	2	1400.	0.	864.	864.	0.	864.	864.	3600.	0.	0.	0.	.24	62.	7.0	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.45 LOWEST LOS = B AVG = 62. 11.3 17.2 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	68. VEH-HRS	85. PASS-HRS	2491. VEH-HRS	3099. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	573. VEH-HRS	713. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	68. VEH-HRS	85. PASS-HRS	3064. VEH-HRS	3812. PASS-HRS
TOTAL TRAV DISTANCE =	4214. VEH-MI.	5242. PASS-MI.	153738. VEH-MI.	191251. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	11. VPMPL		20. VPMPL	
TOTAL FUEL =	246. GALLONS		9222. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		741. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1176.	60.	1176.	1176.	60.	1176.	4100.	0.	0.	0.	.29	62.	9.5	A	13.6	4.8
2	2	1970.	0.	0.	1116.	0.	0.	1116.	4100.	0.	0.	0.	.27	62.	9.0	A	13.6	4.8
3	2	1830.	168.	96.	1284.	168.	96.	1284.	4100.	0.	0.	0.	.31	62.	10.4	A	13.6	4.8
4	2	2010.	0.	0.	1188.	0.	0.	1188.	4400.	0.	0.	0.	.27	62.	9.6	A	13.6	4.8
5	2	2445.	248.	232.	1436.	248.	232.	1436.	4100.	0.	0.	0.	.35	62.	11.6	B	13.6	4.8
6	2	1890.	0.	0.	1204.	0.	0.	1204.	4400.	0.	0.	0.	.27	62.	9.7	A	13.6	4.8
7	2	5320.	288.	316.	1492.	288.	316.	1492.	4100.	0.	0.	0.	.36	62.	12.0	B	13.6	4.8
8	2	880.	0.	0.	1176.	0.	0.	1176.	4400.	0.	0.	0.	.27	62.	9.5	A	14.9	4.8
9	2	1125.	184.	0.	1360.	184.	0.	1360.	4400.	0.	0.	0.	.31	62.	11.0	A	19.9	4.8
10	3	6320.	332.	244.	1692.	332.	244.	1692.	5600.	0.	0.	0.	.30	62.	9.1	A	19.9	4.8
11	2	2050.	0.	0.	1448.	0.	0.	1448.	4100.	0.	0.	0.	.35	62.	11.7	B	19.9	4.8
12	3	2560.	528.	0.	1976.	528.	0.	1976.	5600.	0.	0.	0.	.35	62.	10.6	A	17.2	4.8
13	3	1400.	0.	236.	1976.	0.	236.	1976.	5600.	0.	0.	0.	.35	62.	10.6	A	32.3	4.8
14	2	1320.	0.	0.	1740.	0.	0.	1740.	4400.	0.	0.	0.	.40	62.	14.0	B	14.9	4.8
15	3	540.	528.	796.	2268.	528.	796.	2268.	5256.	344.	0.	0.	.43	62.	12.2	B	12.6	4.8
16	2	1230.	0.	0.	1472.	0.	0.	1472.	4400.	0.	0.	0.	.33	62.	11.9	B	19.9	4.8
17	2	890.	588.	0.	2060.	588.	0.	2060.	4400.	0.	0.	0.	.47	62.	16.6	B	19.9	4.8
18	3	4840.	196.	412.	2256.	196.	412.	2256.	5600.	0.	0.	0.	.40	62.	12.1	B	17.2	4.8
19	2	530.	0.	0.	1844.	0.	0.	1844.	3800.	0.	0.	0.	.49	62.	14.9	B	19.9	4.8
20	2	1040.	276.	0.	2120.	276.	0.	2120.	4400.	0.	0.	0.	.48	62.	17.1	B	19.9	4.8
21	3	2810.	352.	644.	2472.	352.	644.	2472.	5600.	0.	0.	0.	.44	62.	13.3	B	24.1	4.8
22	2	1850.	0.	0.	1828.	0.	0.	1828.	4400.	0.	0.	0.	.42	62.	14.7	B	17.2	4.8
23	3	2390.	228.	68.	2056.	228.	68.	2056.	5600.	0.	0.	0.	.37	62.	11.1	B	24.1	4.8
24	3	960.	0.	900.	1988.	0.	900.	1988.	5600.	0.	0.	0.	.35	62.	10.7	A	17.2	4.8
25	2	1400.	0.	1088.	1088.	0.	1088.	1088.	3600.	0.	0.	0.	.30	62.	8.8	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.49		LOWEST LOS = B	AVG = 62.	11.2		17.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	68. VEH-HRS	84. PASS-HRS	2559. VEH-HRS	3183. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	573. VEH-HRS	713. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	68. VEH-HRS	84. PASS-HRS	3132. VEH-HRS	3896. PASS-HRS
TOTAL TRAV DISTANCE =	4197. VEH-MI.	5222. PASS-MI.	157936. VEH-MI.	196472. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	11. VPMPL		20. VPMPL	
TOTAL FUEL =	243. GALLONS		9465. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		761. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	864.	76.	864.	864.	76.	864.	4100.	0.	0.	0.	.21	62.	7.0	A	13.6	4.8
2	2	1970.	0.	0.	788.	0.	0.	788.	4100.	0.	0.	0.	.19	62.	6.4	A	13.6	4.8
3	2	1830.	164.	56.	952.	164.	56.	952.	4100.	0.	0.	0.	.23	62.	7.7	A	13.6	4.8
4	2	2010.	0.	0.	896.	0.	0.	896.	4400.	0.	0.	0.	.20	62.	7.2	A	13.6	4.8
5	2	2445.	312.	156.	1208.	312.	156.	1208.	4100.	0.	0.	0.	.29	62.	9.7	A	13.6	4.8
6	2	1890.	0.	0.	1052.	0.	0.	1052.	4400.	0.	0.	0.	.24	62.	8.5	A	13.6	4.8
7	2	5320.	352.	348.	1404.	352.	348.	1404.	4100.	0.	0.	0.	.34	62.	11.3	B	13.6	4.8
8	2	880.	0.	0.	1056.	0.	0.	1056.	4400.	0.	0.	0.	.24	62.	8.5	A	14.9	4.8
9	2	1125.	152.	0.	1208.	152.	0.	1208.	4400.	0.	0.	0.	.27	62.	9.7	A	19.9	4.8
10	3	6320.	284.	168.	1492.	284.	168.	1492.	5600.	0.	0.	0.	.27	62.	8.0	A	19.9	4.8
11	2	2050.	0.	0.	1324.	0.	0.	1324.	4100.	0.	0.	0.	.32	62.	10.7	A	19.9	4.8
12	3	2560.	404.	0.	1728.	404.	0.	1728.	5600.	0.	0.	0.	.31	62.	9.3	A	17.2	4.8
13	3	1400.	0.	240.	1728.	0.	240.	1728.	5600.	0.	0.	0.	.31	62.	9.3	A	32.3	4.8
14	2	1320.	0.	0.	1488.	0.	0.	1488.	4400.	0.	0.	0.	.34	62.	12.0	B	14.9	4.8
15	3	540.	560.	812.	2048.	560.	812.	2048.	5264.	336.	0.	0.	.39	62.	11.0	B	12.6	4.8
16	2	1230.	0.	0.	1236.	0.	0.	1236.	4400.	0.	0.	0.	.28	62.	10.0	A	19.9	4.8
17	2	890.	420.	0.	1656.	420.	0.	1656.	4400.	0.	0.	0.	.38	62.	13.4	B	19.9	4.8
18	3	4840.	168.	288.	1824.	168.	288.	1824.	5600.	0.	0.	0.	.33	62.	9.8	A	17.2	4.8
19	2	530.	0.	0.	1536.	0.	0.	1536.	3800.	0.	0.	0.	.40	62.	12.4	B	19.9	4.8
20	2	1040.	300.	0.	1836.	300.	0.	1836.	4400.	0.	0.	0.	.42	62.	14.8	B	19.9	4.8
21	3	2810.	256.	616.	2092.	256.	616.	2092.	5600.	0.	0.	0.	.37	62.	11.2	B	24.1	4.8
22	2	1850.	0.	0.	1476.	0.	0.	1476.	4400.	0.	0.	0.	.34	62.	11.9	B	17.2	4.8
23	3	2390.	212.	68.	1688.	212.	68.	1688.	5600.	0.	0.	0.	.30	62.	9.1	A	24.1	4.8
24	3	960.	0.	864.	1620.	0.	864.	1620.	5600.	0.	0.	0.	.29	62.	8.7	A	17.2	4.8
25	2	1400.	0.	756.	756.	0.	756.	756.	3600.	0.	0.	0.	.21	62.	6.1	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.42 LOWEST LOS = B AVG = 62. 9.4 17.3 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	57. VEH-HRS	71. PASS-HRS	2616. VEH-HRS	3254. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	573. VEH-HRS	713. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	57. VEH-HRS	71. PASS-HRS	3189. VEH-HRS	3967. PASS-HRS
TOTAL TRAV DISTANCE =	3532. VEH-MI.	4394. PASS-MI.	161468. VEH-MI.	200866. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	9. VPMPL		19. VPMPL	
TOTAL FUEL =	204. GALLONS		9670. GALLONS	
TOTAL EMISSIONS =	17. KILOGRAMS		778. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	880.	60.	880.	880.	60.	880.	4100.	0.	0.	0.	.21	62.	7.1	A	13.6	4.8
2	2	1970.	0.	0.	820.	0.	0.	820.	4100.	0.	0.	0.	.20	62.	6.6	A	13.6	4.8
3	2	1830.	112.	64.	932.	112.	64.	932.	4100.	0.	0.	0.	.23	62.	7.5	A	13.6	4.8
4	2	2010.	0.	0.	868.	0.	0.	868.	4400.	0.	0.	0.	.20	62.	7.0	A	13.6	4.8
5	2	2445.	136.	196.	1004.	136.	196.	1004.	4100.	0.	0.	0.	.24	62.	8.1	A	13.6	4.8
6	2	1890.	0.	0.	808.	0.	0.	808.	4400.	0.	0.	0.	.18	62.	6.5	A	13.6	4.8
7	2	5320.	276.	248.	1084.	276.	248.	1084.	4100.	0.	0.	0.	.26	62.	8.7	A	13.6	4.8
8	2	880.	0.	0.	836.	0.	0.	836.	4400.	0.	0.	0.	.19	62.	6.7	A	14.9	4.8
9	2	1125.	104.	0.	940.	104.	0.	940.	4400.	0.	0.	0.	.21	62.	7.6	A	19.9	4.8
10	3	6320.	152.	144.	1092.	152.	144.	1092.	5600.	0.	0.	0.	.19	62.	5.9	A	19.9	4.8
11	2	2050.	0.	0.	948.	0.	0.	948.	4100.	0.	0.	0.	.23	62.	7.6	A	19.9	4.8
12	3	2560.	408.	0.	1356.	408.	0.	1356.	5600.	0.	0.	0.	.24	62.	7.3	A	17.2	4.8
13	3	1400.	0.	212.	1356.	0.	212.	1356.	5600.	0.	0.	0.	.24	62.	7.3	A	32.3	4.8
14	2	1320.	0.	0.	1144.	0.	0.	1144.	4400.	0.	0.	0.	.26	62.	9.2	A	14.9	4.8
15	3	540.	460.	644.	1604.	460.	644.	1604.	5324.	276.	0.	0.	.30	62.	8.6	A	12.6	4.8
16	2	1230.	0.	0.	960.	0.	0.	960.	4400.	0.	0.	0.	.22	62.	7.7	A	19.9	4.8
17	2	890.	412.	0.	1372.	412.	0.	1372.	4400.	0.	0.	0.	.31	62.	11.1	B	19.9	4.8
18	3	4840.	116.	192.	1488.	116.	192.	1488.	5600.	0.	0.	0.	.27	62.	8.0	A	17.2	4.8
19	2	530.	0.	0.	1296.	0.	0.	1296.	3800.	0.	0.	0.	.34	62.	10.5	A	19.9	4.8
20	2	1040.	256.	0.	1552.	256.	0.	1552.	4400.	0.	0.	0.	.35	62.	12.5	B	19.9	4.8
21	3	2810.	224.	480.	1776.	224.	480.	1776.	5600.	0.	0.	0.	.32	62.	9.5	A	24.1	4.8
22	2	1850.	0.	0.	1296.	0.	0.	1296.	4400.	0.	0.	0.	.29	62.	10.5	A	17.2	4.8
23	3	2390.	172.	28.	1468.	172.	28.	1468.	5600.	0.	0.	0.	.26	62.	7.9	A	24.1	4.8
24	3	960.	0.	812.	1440.	0.	812.	1440.	5600.	0.	0.	0.	.26	62.	7.7	A	17.2	4.8
25	2	1400.	0.	628.	628.	0.	628.	628.	3600.	0.	0.	0.	.17	62.	5.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.35		LOWEST LOS = B	AVG = 62.	7.8		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	47. VEH-HRS	58. PASS-HRS	2662. VEH-HRS	3312. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	573. VEH-HRS	713. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	47. VEH-HRS	58. PASS-HRS	3236. VEH-HRS	4025. PASS-HRS
TOTAL TRAV DISTANCE =	2900. VEH-MI.	3608. PASS-MI.	164368. VEH-MI.	204474. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	8. VPMPL		19. VPMPL	
TOTAL FUEL =	169. GALLONS		9838. GALLONS	
TOTAL EMISSIONS =	14. KILOGRAMS		792. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	137.	170.	0.	0.	137.	170.	8419.	10473.	61.6	488.	1.	26.	11.	6:00
2	142.	177.	0.	0.	142.	177.	8739.	10872.	61.3	505.	1.	27.	11.	6:15
3	144.	179.	3.	4.	147.	183.	8853.	11014.	60.2	514.	2.	27.	11.	6:30
4	129.	161.	9.	12.	139.	173.	8010.	9965.	57.8	473.	1.	26.	10.	6:45
5	143.	178.	12.	15.	155.	193.	8746.	10880.	56.4	511.	2.	27.	11.	7:00
6	133.	166.	14.	18.	148.	184.	8233.	10241.	55.7	485.	2.	27.	11.	7:15
7	142.	177.	18.	23.	160.	199.	8687.	10807.	54.3	506.	2.	26.	11.	7:30
8	128.	160.	21.	26.	149.	185.	7927.	9862.	53.2	473.	2.	26.	10.	7:45
9	128.	159.	21.	26.	149.	185.	7893.	9819.	53.1	473.	2.	26.	10.	8:00
10	121.	150.	21.	26.	142.	176.	7480.	9305.	52.8	450.	1.	25.	10.	8:15
11	130.	162.	23.	29.	153.	191.	8020.	9977.	52.3	482.	2.	26.	10.	8:30
12	120.	150.	33.	41.	153.	191.	7455.	9274.	48.6	453.	2.	26.	10.	8:45
13	135.	168.	47.	59.	182.	226.	8326.	10357.	45.8	504.	2.	28.	11.	9:00
14	123.	154.	60.	75.	184.	229.	7601.	9455.	41.4	474.	2.	26.	10.	9:15
15	120.	149.	71.	88.	191.	237.	7405.	9212.	38.8	464.	2.	26.	10.	9:30
16	104.	129.	70.	87.	174.	216.	6448.	8022.	37.1	410.	2.	24.	9.	9:45
17	91.	113.	62.	78.	153.	191.	5641.	7017.	36.8	355.	1.	21.	8.	10:00
18	90.	111.	52.	64.	141.	176.	5552.	6907.	39.3	348.	1.	20.	8.	10:15
19	87.	108.	28.	35.	115.	143.	5379.	6691.	46.7	328.	1.	19.	7.	10:30
20	76.	94.	7.	8.	83.	103.	4709.	5858.	57.0	281.	1.	16.	6.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	68.	85.	0.	0.	68.	85.	4214.	5242.	62.0	246.	1.	14.	5.	11:00
22	68.	84.	0.	0.	68.	84.	4197.	5222.	62.0	243.	1.	14.	5.	11:15
23	57.	71.	0.	0.	57.	71.	3532.	4394.	62.0	204.	1.	12.	5.	11:30
24	47.	58.	0.	0.	47.	58.	2900.	3608.	62.0	169.	1.	10.	4.	11:45
TOTAL	2662.	3312.	573.	713.	3236.	4025.	164368.	204474.	61.7	9838.	32.	545.	215.	

Existing (2019) plus Interim Build
(Aux Lanes Only)
Southbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	748.	0.	748.	748.	0.	748.	3850.	0.	0.	0.	.19	50.	7.5	A	17.4	2.3
2	2	2070.	212.	0.	960.	212.	0.	960.	3850.	0.	0.	0.	.25	50.	9.6	A	15.9	2.3
3	3	2300.	352.	48.	1312.	352.	48.	1312.	5700.	0.	0.	0.	.23	55.	8.0	A	14.0	2.4
4	3	1020.	0.	0.	1264.	0.	0.	1264.	5700.	0.	0.	0.	.22	62.	6.8	A	19.9	4.8
5	3	710.	84.	0.	1348.	84.	0.	1348.	5700.	0.	0.	0.	.24	62.	7.2	A	16.1	4.4
6	3	3820.	68.	188.	1416.	68.	188.	1416.	6150.	0.	0.	0.	.23	62.	7.6	A	17.1	4.8
7	2	1220.	0.	0.	1228.	0.	0.	1228.	4400.	0.	0.	0.	.28	62.	9.9	A	18.2	4.4
8	3	4810.	192.	136.	1420.	192.	136.	1420.	6100.	0.	0.	0.	.23	62.	7.6	A	20.6	4.4
9	2	1370.	0.	0.	1284.	0.	0.	1284.	4000.	0.	0.	0.	.32	62.	10.4	A	23.6	4.4
10	2	660.	84.	0.	1368.	84.	0.	1368.	4398.	2.	0.	0.	.31	62.	11.0	B	23.6	4.4
11	3	790.	204.	100.	1572.	204.	100.	1572.	6098.	2.	0.	0.	.26	62.	8.5	A	30.0	4.4
12	2	1460.	0.	0.	1472.	0.	0.	1472.	4100.	0.	0.	0.	.36	62.	11.9	B	20.6	4.4
13	3	1400.	104.	0.	1576.	104.	0.	1576.	6098.	2.	0.	0.	.26	62.	8.5	A	13.6	4.4
14	3	2600.	0.	36.	1576.	0.	36.	1576.	6098.	2.	0.	0.	.26	62.	8.5	A	20.6	4.4
15	2	2010.	0.	0.	1540.	0.	0.	1540.	3900.	0.	0.	0.	.39	62.	12.4	B	14.7	4.4
16	3	6120.	108.	84.	1648.	108.	84.	1648.	6100.	0.	0.	0.	.27	62.	8.9	A	18.2	4.4
17	2	1240.	0.	0.	1564.	0.	0.	1564.	4300.	0.	0.	0.	.36	62.	12.6	B	18.2	4.4
18	2	930.	60.	0.	1624.	60.	0.	1624.	4100.	0.	0.	0.	.40	62.	13.1	B	20.6	4.4
19	2	5330.	60.	60.	1684.	60.	60.	1684.	3950.	0.	0.	0.	.43	62.	13.6	B	20.6	4.4
20	2	2830.	0.	0.	1624.	0.	0.	1624.	3800.	0.	0.	0.	.43	61.	13.3	B	21.1	3.8
21	2	1660.	144.	132.	1768.	144.	132.	1768.	4300.	0.	0.	0.	.41	61.	14.5	B	21.1	3.8
22	2	2270.	0.	0.	1636.	0.	0.	1636.	4400.	0.	0.	0.	.37	62.	13.2	B	20.6	4.4
23	2	3040.	20.	52.	1656.	20.	52.	1656.	4100.	0.	0.	0.	.40	62.	13.4	B	20.6	4.4
24	2	2190.	0.	0.	1604.	0.	0.	1604.	4200.	0.	0.	0.	.38	65.	12.3	B	19.2	6.1
25	3	2400.	56.	1660.	1660.	56.	1660.	1660.	6150.	0.	0.	0.	.27	65.	8.5	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.43		LOWEST LOS = B	AVG = 61.	10.4		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	74. PASS-HRS	64. VEH-HRS	74. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	74. PASS-HRS	64. VEH-HRS	74. PASS-HRS
TOTAL TRAV DISTANCE =	3935. VEH-MI.	4564. PASS-MI.	3935. VEH-MI.	4564. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	10. VPMPL		10. VPMPL	
TOTAL FUEL =	208. GALLONS		208. GALLONS	
TOTAL EMISSIONS =	17. KILOGRAMS		17. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1064.	0.	1064.	1064.	0.	1064.	3850.	0.	0.	0.	.28	50.	10.6	A	17.4	2.3
2	2	2070.	212.	0.	1276.	212.	0.	1276.	3850.	0.	0.	0.	.33	50.	12.8	B	15.9	2.3
3	3	2300.	524.	56.	1800.	524.	56.	1800.	5700.	0.	0.	0.	.32	55.	10.9	A	14.0	2.4
4	3	1020.	0.	0.	1744.	0.	0.	1744.	5700.	0.	0.	0.	.31	62.	9.4	A	19.9	4.8
5	3	710.	48.	0.	1792.	48.	0.	1792.	5700.	0.	0.	0.	.31	62.	9.6	A	16.1	4.4
6	3	3820.	88.	204.	1880.	88.	204.	1880.	6150.	0.	0.	0.	.31	62.	10.1	A	17.1	4.8
7	2	1220.	0.	0.	1676.	0.	0.	1676.	4400.	0.	0.	0.	.38	62.	13.5	B	18.2	4.4
8	3	4810.	180.	156.	1856.	180.	156.	1856.	6100.	0.	0.	0.	.30	62.	10.0	A	20.6	4.4
9	2	1370.	0.	0.	1700.	0.	0.	1700.	4000.	0.	0.	0.	.43	62.	13.7	B	23.6	4.4
10	2	660.	48.	0.	1748.	48.	0.	1748.	4398.	2.	0.	0.	.40	62.	14.1	B	23.6	4.4
11	3	790.	156.	108.	1904.	156.	108.	1904.	6098.	2.	0.	0.	.31	62.	10.2	A	30.0	4.4
12	2	1460.	0.	0.	1796.	0.	0.	1796.	4100.	0.	0.	0.	.44	62.	14.5	B	20.6	4.4
13	3	1400.	116.	0.	1912.	116.	0.	1912.	6097.	3.	0.	0.	.31	62.	10.3	A	13.6	4.4
14	3	2600.	0.	44.	1912.	0.	44.	1912.	6097.	3.	0.	0.	.31	62.	10.3	A	20.6	4.4
15	2	2010.	0.	0.	1868.	0.	0.	1868.	3900.	0.	0.	0.	.48	62.	15.1	B	14.7	4.4
16	3	6120.	92.	116.	1960.	92.	116.	1960.	6100.	0.	0.	0.	.32	62.	10.5	A	18.2	4.4
17	2	1240.	0.	0.	1844.	0.	0.	1844.	4300.	0.	0.	0.	.43	62.	14.9	B	18.2	4.4
18	2	930.	84.	0.	1928.	84.	0.	1928.	4100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
19	2	5330.	80.	72.	2008.	80.	72.	2008.	3950.	0.	0.	0.	.51	62.	16.2	B	20.6	4.4
20	2	2830.	0.	0.	1936.	0.	0.	1936.	3800.	0.	0.	0.	.51	61.	15.9	B	21.1	3.8
21	2	1660.	136.	108.	2072.	136.	108.	2072.	4300.	0.	0.	0.	.48	61.	17.0	B	21.1	3.8
22	2	2270.	0.	0.	1964.	0.	0.	1964.	4400.	0.	0.	0.	.45	62.	15.8	B	20.6	4.4
23	2	3040.	64.	80.	2028.	64.	80.	2028.	4100.	0.	0.	0.	.49	62.	16.4	B	20.6	4.4
24	2	2190.	0.	0.	1948.	0.	0.	1948.	4200.	0.	0.	0.	.46	65.	15.0	B	19.2	6.1
25	3	2400.	72.	2020.	2020.	72.	2020.	2020.	6150.	0.	0.	0.	.33	65.	10.4	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.51		LOWEST LOS = B	AVG = 61.	12.9		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	79. VEH-HRS	92. PASS-HRS	143. VEH-HRS	166. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	79. VEH-HRS	92. PASS-HRS	143. VEH-HRS	166. PASS-HRS
TOTAL TRAV DISTANCE =	4875. VEH-MI.	5655. PASS-MI.	8810. VEH-MI.	10219. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	13. VPMPL		12. VPMPL	
TOTAL FUEL =	259. GALLONS		467. GALLONS	
TOTAL EMISSIONS =	21. KILOGRAMS		39. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1488.	0.	1488.	1488.	0.	1488.	3850.	0.	0.	0.	.39	50.	14.9	B	17.4	2.3
2	2	2070.	292.	0.	1780.	292.	0.	1780.	3850.	0.	0.	0.	.46	50.	17.8	B	15.9	2.3
3	3	2300.	728.	80.	2508.	728.	80.	2508.	5694.	6.	0.	0.	.44	55.	15.2	B	14.0	2.4
4	3	1020.	0.	0.	2428.	0.	0.	2428.	5700.	0.	0.	0.	.43	62.	13.1	B	19.9	4.8
5	3	710.	92.	0.	2520.	92.	0.	2520.	5700.	0.	0.	0.	.44	62.	13.5	B	16.1	4.4
6	3	3820.	132.	380.	2652.	132.	380.	2652.	6150.	0.	0.	0.	.43	62.	14.3	B	17.1	4.8
7	2	1220.	0.	0.	2272.	0.	0.	2272.	4400.	0.	0.	0.	.52	62.	18.3	C	18.2	4.4
8	3	4810.	280.	216.	2552.	280.	216.	2552.	6100.	0.	0.	0.	.42	62.	13.7	B	20.6	4.4
9	2	1370.	0.	0.	2336.	0.	0.	2336.	4000.	0.	0.	0.	.58	62.	18.8	C	23.6	4.4
10	2	660.	100.	0.	2436.	100.	0.	2436.	4398.	2.	0.	0.	.55	62.	19.6	C	23.6	4.4
11	3	790.	336.	152.	2772.	336.	152.	2772.	6058.	42.	0.	0.	.46	62.	14.9	B	30.0	4.4
12	2	1460.	0.	0.	2620.	0.	0.	2620.	4100.	0.	0.	0.	.64	62.	21.1	C	20.6	4.4
13	3	1400.	212.	0.	2832.	212.	0.	2832.	6096.	4.	0.	0.	.46	62.	15.2	B	13.6	4.4
14	3	2600.	0.	72.	2832.	0.	72.	2832.	6096.	4.	0.	0.	.46	62.	15.2	B	20.6	4.4
15	2	2010.	0.	0.	2760.	0.	0.	2760.	3900.	0.	0.	0.	.71	62.	22.3	C	14.7	4.4
16	3	6120.	100.	112.	2860.	100.	112.	2860.	6100.	0.	0.	0.	.47	62.	15.4	B	18.2	4.4
17	2	1240.	0.	0.	2748.	0.	0.	2748.	4300.	0.	0.	0.	.64	62.	22.2	C	18.2	4.4
18	2	930.	136.	0.	2884.	136.	0.	2884.	4100.	0.	0.	0.	.70	62.	23.3	C	20.6	4.4
19	2	5330.	88.	112.	2972.	88.	112.	2972.	3950.	0.	0.	0.	.75	62.	24.0	C	20.6	4.4
20	2	2830.	0.	0.	2860.	0.	0.	2860.	3800.	0.	0.	0.	.75	61.	23.4	C	21.1	3.8
21	2	1660.	144.	172.	3004.	144.	172.	3004.	4300.	0.	0.	0.	.70	61.	24.6	C	21.1	3.8
22	2	2270.	0.	0.	2832.	0.	0.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	20.6	4.4
23	2	3040.	96.	48.	2928.	96.	48.	2928.	4100.	0.	0.	0.	.71	62.	23.6	C	20.6	4.4
24	2	2190.	0.	0.	2880.	0.	0.	2880.	4200.	0.	0.	0.	.69	65.	22.2	C	19.2	6.1
25	3	2400.	80.	2960.	2960.	80.	2960.	2960.	6150.	0.	0.	0.	.48	65.	15.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.75		LOWEST LOS = C	AVG = 61.	18.6		18.8	4.4

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 3 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	133. PASS-HRS	258. VEH-HRS	299. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	115. VEH-HRS	133. PASS-HRS	258. VEH-HRS	299. PASS-HRS
TOTAL TRAV DISTANCE =	7036. VEH-MI.	8161. PASS-MI.	15846. VEH-MI.	18381. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		14. VPMPL	
TOTAL FUEL =	373. GALLONS		840. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		70. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2032.	0.	2032.	2032.	0.	2032.	3850.	0.	0.	0.	.53	50.	20.3	C	17.4	2.3
2	2	2070.	392.	0.	2424.	392.	0.	2424.	3847.	3.	0.	0.	.63	50.	24.2	C	15.9	2.3
3	3	2300.	868.	108.	3292.	868.	108.	3292.	5664.	36.	0.	0.	.58	55.	20.0	C	14.0	2.4
4	3	1020.	0.	0.	3184.	0.	0.	3184.	5700.	0.	0.	0.	.56	62.	17.1	B	19.9	4.8
5	3	710.	136.	0.	3320.	136.	0.	3320.	5700.	0.	0.	0.	.58	62.	17.8	B	16.1	4.4
6	3	3820.	252.	632.	3572.	252.	632.	3572.	6150.	0.	0.	0.	.58	62.	19.2	C	17.1	4.8
7	2	1220.	0.	0.	2940.	0.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	18.2	4.4
8	3	4810.	332.	340.	3272.	332.	340.	3272.	6100.	0.	0.	0.	.54	62.	17.6	B	20.6	4.4
9	2	1370.	0.	0.	2932.	0.	0.	2932.	4000.	0.	0.	0.	.73	62.	23.6	C	23.6	4.4
10	2	660.	108.	0.	3040.	108.	0.	3040.	4395.	5.	0.	0.	.69	62.	24.5	C	23.6	4.4
11	3	790.	360.	340.	3400.	360.	340.	3400.	5835.	265.	0.	0.	.58	62.	18.3	C	30.0	4.4
12	2	1460.	0.	0.	3060.	0.	0.	3060.	4100.	0.	0.	0.	.75	62.	24.7	C	20.6	4.4
13	3	1400.	220.	0.	3280.	220.	0.	3280.	6088.	12.	0.	0.	.54	62.	17.6	B	13.6	4.4
14	3	2600.	0.	204.	3280.	0.	204.	3280.	6088.	12.	0.	0.	.54	62.	17.6	B	20.6	4.4
15	2	2010.	0.	0.	3076.	0.	0.	3076.	3900.	0.	0.	0.	.79	62.	24.8	C	14.7	4.4
16	3	6120.	220.	200.	3296.	220.	200.	3296.	6100.	0.	0.	0.	.54	62.	17.7	B	18.2	4.4
17	2	1240.	0.	0.	3096.	0.	0.	3096.	4300.	0.	0.	0.	.72	62.	25.0	C	18.2	4.3
18	2	930.	172.	0.	3268.	172.	0.	3268.	4100.	0.	0.	0.	.80	61.	26.8	D	21.1	3.8
19	2	5330.	148.	132.	3416.	148.	132.	3416.	3950.	0.	0.	0.	.86	59.	28.8	D	21.8	3.0
20	2	2830.	0.	0.	3284.	0.	0.	3284.	3800.	0.	0.	0.	.86	59.	28.0	D	22.0	2.9
21	2	1660.	324.	368.	3608.	324.	368.	3608.	4300.	0.	0.	0.	.84	59.	30.4	D	21.8	3.0
22	2	2270.	0.	0.	3240.	0.	0.	3240.	4400.	0.	0.	0.	.74	62.	26.2	D	20.7	4.2
23	2	3040.	112.	84.	3352.	112.	84.	3352.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
24	2	2190.	0.	0.	3268.	0.	0.	3268.	4200.	0.	0.	0.	.78	64.	25.7	C	19.8	5.3
25	3	2400.	88.	3356.	3356.	88.	3356.	3356.	6150.	0.	0.	0.	.55	65.	17.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.86		LOWEST LOS = D	AVG = 61.	22.5		19.0	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	397. VEH-HRS	460. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	397. VEH-HRS	460. PASS-HRS
TOTAL TRAV DISTANCE =	8426. VEH-MI.	9774. PASS-MI.	24272. VEH-MI.	28155. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		16. VPMPL	
TOTAL FUEL =	443. GALLONS		1283. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		104. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	920.	0.	920.	920.	0.	920.	3850.	0.	0.	0.	.24	50.	9.2	A	17.4	2.3
2	2	2070.	504.	0.	1424.	504.	0.	1424.	3850.	0.	0.	0.	.37	50.	14.2	B	15.9	2.3
3	3	2300.	656.	152.	2080.	656.	152.	2080.	5700.	0.	0.	0.	.36	55.	12.6	B	14.0	2.4
4	3	1020.	0.	0.	1928.	0.	0.	1928.	5700.	0.	0.	0.	.34	62.	10.4	A	19.9	4.8
5	3	710.	144.	0.	2072.	144.	0.	2072.	5700.	0.	0.	0.	.36	62.	11.1	B	16.1	4.4
6	3	3820.	360.	520.	2432.	360.	520.	2432.	6150.	0.	0.	0.	.40	62.	13.1	B	17.1	4.8
7	2	1220.	0.	0.	1912.	0.	0.	1912.	4400.	0.	0.	0.	.43	62.	15.4	B	18.2	4.4
8	3	4810.	424.	332.	2336.	424.	332.	2336.	6100.	0.	0.	0.	.38	62.	12.6	B	20.6	4.4
9	2	1370.	0.	0.	2004.	0.	0.	2004.	4000.	0.	0.	0.	.50	62.	16.2	B	23.6	4.4
10	2	660.	124.	0.	2128.	124.	0.	2128.	4391.	9.	0.	0.	.48	62.	17.2	B	23.6	4.4
11	3	790.	552.	412.	2680.	552.	412.	2680.	5761.	339.	0.	0.	.47	62.	14.4	B	30.0	4.4
12	2	1460.	0.	0.	2268.	0.	0.	2268.	4100.	0.	0.	0.	.55	62.	18.3	C	20.6	4.4
13	3	1400.	324.	0.	2592.	324.	0.	2592.	6077.	23.	0.	0.	.43	62.	13.9	B	13.6	4.4
14	3	2600.	0.	196.	2592.	0.	196.	2592.	6077.	23.	0.	0.	.43	62.	13.9	B	20.6	4.4
15	2	2010.	0.	0.	2396.	0.	0.	2396.	3900.	0.	0.	0.	.61	62.	19.3	C	14.7	4.4
16	3	6120.	236.	264.	2632.	236.	264.	2632.	6100.	0.	0.	0.	.43	62.	14.2	B	18.2	4.4
17	2	1240.	0.	0.	2368.	0.	0.	2368.	4300.	0.	0.	0.	.55	62.	19.1	C	18.2	4.4
18	2	930.	236.	0.	2604.	236.	0.	2604.	4100.	0.	0.	0.	.64	62.	21.0	C	20.6	4.4
19	2	5330.	204.	204.	2808.	204.	204.	2808.	3950.	0.	0.	0.	.71	62.	22.6	C	20.6	4.4
20	2	2830.	0.	0.	2604.	0.	0.	2604.	3800.	0.	0.	0.	.69	61.	21.3	C	21.1	3.8
21	2	1660.	540.	624.	3144.	540.	624.	3144.	4062.	238.	0.	0.	.77	61.	25.9	C	21.3	3.5
22	2	2270.	0.	0.	2520.	0.	0.	2520.	4400.	0.	0.	0.	.57	62.	20.3	C	20.6	4.4
23	2	3040.	144.	100.	2664.	144.	100.	2664.	4100.	0.	0.	0.	.65	62.	21.5	C	20.6	4.4
24	2	2190.	0.	0.	2564.	0.	0.	2564.	4200.	0.	0.	0.	.61	65.	19.7	C	19.2	6.1
25	3	2400.	116.	2680.	2680.	116.	2680.	2680.	6150.	0.	0.	0.	.44	65.	13.7	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.77		LOWEST LOS = C	AVG = 61.	16.8		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	103. VEH-HRS	120. PASS-HRS	500. VEH-HRS	580. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	103. VEH-HRS	120. PASS-HRS	500. VEH-HRS	580. PASS-HRS
TOTAL TRAV DISTANCE =	6351. VEH-MI.	7367. PASS-MI.	30623. VEH-MI.	35522. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	17. VPMPL		16. VPMPL	
TOTAL FUEL =	336. GALLONS		1619. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		132. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1152.	0.	1152.	1152.	0.	1152.	3850.	0.	0.	0.	.30	50.	11.5	B	17.4	2.3
2	2	2070.	628.	0.	1780.	628.	0.	1780.	3850.	0.	0.	0.	.46	50.	17.8	B	15.9	2.3
3	3	2300.	1436.	248.	3216.	1436.	248.	3216.	5571.	129.	0.	0.	.58	55.	19.5	C	14.0	2.4
4	3	1020.	0.	0.	2968.	0.	0.	2968.	5700.	0.	0.	0.	.52	62.	16.0	B	19.9	4.8
5	3	710.	204.	0.	3172.	204.	0.	3172.	5700.	0.	0.	0.	.56	62.	17.1	B	16.1	4.4
6	3	3820.	344.	808.	3516.	344.	808.	3516.	6150.	0.	0.	0.	.57	62.	18.9	C	17.1	4.8
7	2	1220.	0.	0.	2708.	0.	0.	2708.	4400.	0.	0.	0.	.62	62.	21.8	C	18.2	4.4
8	3	4810.	472.	400.	3180.	472.	400.	3180.	6100.	0.	0.	0.	.52	62.	17.1	B	20.6	4.4
9	2	1370.	0.	0.	2780.	0.	0.	2780.	4000.	0.	0.	0.	.69	62.	22.4	C	23.6	4.4
10	2	660.	160.	0.	2940.	160.	0.	2940.	4389.	11.	0.	0.	.67	62.	23.7	C	23.6	4.4
11	3	790.	504.	536.	3444.	504.	536.	3444.	5663.	437.	0.	0.	.61	62.	18.5	C	30.0	4.4
12	2	1460.	0.	0.	2908.	0.	0.	2908.	4100.	0.	0.	0.	.71	62.	23.5	C	20.6	4.4
13	3	1400.	404.	0.	3312.	404.	0.	3312.	6044.	56.	0.	0.	.55	62.	17.8	B	13.6	4.4
14	3	2600.	0.	464.	3312.	0.	464.	3312.	6044.	56.	0.	0.	.55	62.	17.8	B	20.6	4.4
15	2	2010.	0.	0.	2848.	0.	0.	2848.	3900.	0.	0.	0.	.73	62.	23.0	C	14.7	4.4
16	3	6120.	332.	328.	3180.	332.	328.	3180.	6100.	0.	0.	0.	.52	62.	17.1	B	18.2	4.4
17	2	1240.	0.	0.	2852.	0.	0.	2852.	4300.	0.	0.	0.	.66	62.	23.0	C	18.2	4.4
18	2	930.	348.	0.	3200.	348.	0.	3200.	4100.	0.	0.	0.	.78	61.	26.1	D	20.9	4.0
19	2	5330.	176.	304.	3376.	176.	304.	3376.	3950.	0.	0.	0.	.85	60.	28.3	D	21.7	3.1
20	2	2830.	0.	0.	3072.	0.	0.	3072.	3800.	0.	0.	0.	.81	61.	25.2	C	21.1	3.8
21	2	1660.	536.	544.	3608.	536.	544.	3608.	4072.	228.	0.	0.	.89	58.	31.1	D	22.2	2.7
22	2	2270.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	20.6	4.4
23	2	3040.	324.	188.	3388.	324.	188.	3388.	4100.	0.	0.	0.	.83	60.	28.0	D	21.4	3.4
24	2	2190.	0.	0.	3200.	0.	0.	3200.	4200.	0.	0.	0.	.76	64.	25.0	C	19.6	5.5
25	3	2400.	148.	3348.	3348.	148.	3348.	3348.	6150.	0.	0.	0.	.54	65.	17.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.89 LOWEST LOS = D AVG = 61. 21.5 19.0 4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	133. VEH-HRS	155. PASS-HRS	633. VEH-HRS	735. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	133. VEH-HRS	155. PASS-HRS	633. VEH-HRS	735. PASS-HRS
TOTAL TRAV DISTANCE =	8125. VEH-MI.	9425. PASS-MI.	38748. VEH-MI.	44948. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		17. VPMPL	
TOTAL FUEL =	427. GALLONS		2046. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		165. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1040.	0.	1040.	1040.	0.	1040.	3850.	0.	0.	0.	.27	50.	10.4	A	17.4	2.3
2	2	2070.	844.	0.	1884.	844.	0.	1884.	3850.	0.	0.	0.	.49	50.	18.8	C	15.9	2.3
3	3	2300.	1668.	304.	3552.	1668.	304.	3552.	5540.	160.	0.	0.	.64	55.	21.5	C	14.0	2.4
4	3	1020.	0.	0.	3248.	0.	0.	3248.	5700.	0.	0.	0.	.57	62.	17.5	B	19.9	4.8
5	3	710.	276.	0.	3524.	276.	0.	3524.	5700.	0.	0.	0.	.62	62.	18.9	C	16.1	4.4
6	3	3820.	384.	788.	3908.	384.	788.	3908.	6150.	0.	0.	0.	.64	62.	21.0	C	17.1	4.8
7	2	1220.	0.	0.	3120.	0.	0.	3120.	4400.	0.	0.	0.	.71	62.	25.2	C	18.2	4.3
8	3	4810.	684.	500.	3804.	684.	500.	3804.	6100.	0.	0.	0.	.62	62.	20.5	C	20.6	4.4
9	2	1370.	0.	0.	3304.	0.	0.	3304.	4000.	0.	0.	0.	.83	60.	27.3	D	24.5	3.4
10	2	660.	236.	0.	3540.	236.	0.	3540.	4385.	15.	0.	0.	.81	61.	29.1	D	24.3	3.7
11	3	790.	632.	584.	4172.	632.	584.	4172.	5587.	513.	0.	0.	.75	62.	22.4	C	30.0	4.4
12	2	1460.	0.	0.	3588.	0.	0.	3588.	4100.	0.	0.	0.	.88	59.	30.5	D	22.0	2.9
13	3	1400.	388.	0.	3976.	388.	0.	3976.	6008.	92.	0.	0.	.66	62.	21.4	C	13.6	4.4
14	3	2600.	0.	952.	3976.	0.	952.	3976.	6008.	92.	0.	0.	.66	62.	21.4	C	20.6	4.4
15	2	2010.	0.	0.	3024.	0.	0.	3024.	3900.	0.	0.	0.	.78	62.	24.4	C	14.7	4.4
16	3	6120.	400.	328.	3424.	400.	328.	3424.	6100.	0.	0.	0.	.56	62.	18.4	C	18.2	4.4
17	2	1240.	0.	0.	3096.	0.	0.	3096.	4300.	0.	0.	0.	.72	62.	25.0	C	18.2	4.3
18	2	930.	256.	0.	3352.	256.	0.	3352.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
19	2	5330.	156.	268.	3508.	156.	268.	3508.	3950.	0.	0.	0.	.89	58.	30.1	D	22.1	2.8
20	2	2830.	0.	0.	3240.	0.	0.	3240.	3800.	0.	0.	0.	.85	59.	27.4	D	21.9	3.0
21	2	1660.	476.	400.	3716.	476.	400.	3716.	4248.	52.	0.	0.	.87	58.	31.9	D	22.1	2.8
22	2	2270.	0.	0.	3316.	0.	0.	3316.	4400.	0.	0.	0.	.75	62.	26.9	D	20.7	4.2
23	2	3040.	324.	208.	3640.	324.	208.	3640.	4100.	0.	0.	0.	.89	58.	31.2	D	22.1	2.8
24	2	2190.	0.	0.	3432.	0.	0.	3432.	4200.	0.	0.	0.	.82	63.	27.4	D	20.3	4.7
25	3	2400.	200.	3632.	3632.	200.	3632.	3632.	6150.	0.	0.	0.	.59	65.	18.6	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 60.	23.9		19.2	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	149. VEH-HRS	172. PASS-HRS	782. VEH-HRS	907. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	172. PASS-HRS	782. VEH-HRS	907. PASS-HRS
TOTAL TRAV DISTANCE =	8977. VEH-MI.	10413. PASS-MI.	47725. VEH-MI.	55361. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		18. VPMPL	
TOTAL FUEL =	467. GALLONS		2513. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		201. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1312.	0.	1312.	1312.	0.	1312.	3850.	0.	0.	0.	.34	50.	13.1	B	17.4	2.3
2	2	2070.	796.	0.	2108.	796.	0.	2108.	3850.	0.	0.	0.	.55	50.	21.1	C	15.9	2.3
3	3	2300.	1684.	348.	3792.	1684.	348.	3792.	5508.	192.	0.	0.	.69	55.	23.0	C	14.0	2.4
4	3	1020.	0.	0.	3444.	0.	0.	3444.	5700.	0.	0.	0.	.60	62.	18.5	C	19.9	4.8
5	3	710.	316.	0.	3760.	316.	0.	3760.	5700.	0.	0.	0.	.66	62.	20.2	C	16.1	4.4
6	3	3820.	424.	860.	4184.	424.	860.	4184.	6150.	0.	0.	0.	.68	62.	22.5	C	17.1	4.8
7	2	1220.	0.	0.	3324.	0.	0.	3324.	4400.	0.	0.	0.	.76	62.	27.0	D	18.3	4.1
8	3	4810.	684.	536.	4008.	684.	536.	4008.	6100.	0.	0.	0.	.66	62.	21.5	C	20.6	4.4
9	2	1370.	0.	0.	3472.	0.	0.	3472.	4000.	0.	0.	0.	.87	59.	29.4	D	25.2	3.0
10	2	660.	308.	0.	3780.	308.	0.	3780.	4378.	22.	0.	0.	.86	59.	31.9	D	25.1	3.0
11	3	790.	704.	704.	4484.	704.	704.	4484.	5482.	618.	0.	0.	.82	62.	24.1	C	30.0	4.4
12	2	1460.	0.	0.	3780.	0.	0.	3780.	4100.	0.	0.	0.	.92	57.	33.3	D	22.6	2.4
13	3	1400.	416.	0.	4196.	416.	0.	4196.	5988.	112.	0.	0.	.70	62.	22.6	C	13.6	4.4
14	3	2600.	0.	1136.	4196.	0.	1136.	4196.	5988.	112.	0.	0.	.70	62.	22.6	C	20.6	4.4
15	2	2010.	0.	0.	3060.	0.	0.	3060.	3900.	0.	0.	0.	.78	62.	24.7	C	14.7	4.4
16	3	6120.	444.	396.	3504.	444.	396.	3504.	6100.	0.	0.	0.	.57	62.	18.8	C	18.2	4.4
17	2	1240.	0.	0.	3108.	0.	0.	3108.	4300.	0.	0.	0.	.72	62.	25.1	C	18.2	4.3
18	2	930.	312.	0.	3420.	312.	0.	3420.	4100.	0.	0.	0.	.83	60.	28.4	D	21.5	3.3
19	2	5330.	156.	328.	3576.	156.	328.	3576.	3950.	0.	0.	0.	.91	58.	31.1	D	22.3	2.6
20	2	2830.	0.	0.	3248.	0.	0.	3248.	3800.	0.	0.	0.	.85	59.	27.5	D	21.9	2.9
21	2	1660.	640.	448.	3888.	640.	448.	3888.	4114.	186.	0.	0.	.95	55.	35.3	E	23.1	2.0
22	2	2270.	0.	0.	3440.	0.	0.	3440.	4400.	0.	0.	0.	.78	61.	28.1	D	20.9	4.0
23	2	3040.	304.	332.	3744.	304.	332.	3744.	4100.	0.	0.	0.	.91	57.	32.7	D	22.5	2.5
24	2	2190.	0.	0.	3412.	0.	0.	3412.	4200.	0.	0.	0.	.81	63.	27.2	D	20.2	4.8
25	3	2400.	204.	3616.	3616.	204.	3616.	3616.	6150.	0.	0.	0.	.59	65.	18.5	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.95		LOWEST LOS = E	AVG = 60.	25.0		19.3	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	155. VEH-HRS	180. PASS-HRS	937. VEH-HRS	1087. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	155. VEH-HRS	180. PASS-HRS	937. VEH-HRS	1087. PASS-HRS
TOTAL TRAV DISTANCE =	9328. VEH-MI.	10821. PASS-MI.	57053. VEH-MI.	66182. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		19. VPMPL	
TOTAL FUEL =	484. GALLONS		2996. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		236. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2316.	0.	2316.	2316.	0.	2316.	3850.	0.	0.	0.	.60	50.	23.2	C	17.4	2.3
2	2	2070.	688.	0.	3004.	688.	0.	3004.	3830.	20.	0.	0.	.78	50.	30.0	D	15.9	2.3
3	3	2300.	1532.	376.	4536.	1532.	376.	4536.	5430.	270.	0.	0.	.84	55.	27.5	D	14.0	2.4
4	3	1020.	0.	0.	4160.	0.	0.	4160.	5700.	0.	0.	0.	.73	62.	22.4	C	19.9	4.8
5	3	710.	236.	0.	4396.	236.	0.	4396.	5700.	0.	0.	0.	.77	62.	23.6	C	16.1	4.4
6	3	3820.	296.	1072.	4692.	296.	1072.	4692.	6127.	23.	0.	0.	.77	62.	25.4	C	17.3	4.5
7	2	1220.	0.	0.	3620.	0.	0.	3620.	4400.	0.	0.	0.	.82	61.	29.9	D	18.8	3.5
8	3	4810.	588.	824.	4208.	588.	824.	4208.	6100.	0.	0.	0.	.69	62.	22.6	C	20.6	4.4
9	2	1370.	0.	0.	3384.	0.	0.	3384.	4000.	0.	0.	0.	.85	60.	28.3	D	24.8	3.2
10	2	660.	228.	0.	3612.	228.	0.	3612.	4376.	24.	0.	0.	.83	60.	29.9	D	24.5	3.4
11	3	790.	664.	960.	4276.	664.	960.	4276.	5556.	544.	0.	0.	.77	62.	23.0	C	30.0	4.4
12	2	1460.	0.	0.	3316.	0.	0.	3316.	4100.	0.	0.	0.	.81	61.	27.3	D	21.2	3.7
13	3	1400.	480.	0.	3796.	480.	0.	3796.	5996.	104.	0.	0.	.63	62.	20.4	C	13.6	4.4
14	3	2600.	0.	832.	3796.	0.	832.	3796.	5996.	104.	0.	0.	.63	62.	20.4	C	20.6	4.4
15	2	2010.	0.	0.	2964.	0.	0.	2964.	3900.	0.	0.	0.	.76	62.	23.9	C	14.7	4.4
16	3	6120.	384.	488.	3348.	384.	488.	3348.	6100.	0.	0.	0.	.55	62.	18.0	C	18.2	4.4
17	2	1240.	0.	0.	2860.	0.	0.	2860.	4300.	0.	0.	0.	.67	62.	23.1	C	18.2	4.4
18	2	930.	340.	0.	3200.	340.	0.	3200.	4100.	0.	0.	0.	.78	61.	26.1	D	20.9	4.0
19	2	5330.	168.	384.	3368.	168.	384.	3368.	3950.	0.	0.	0.	.85	60.	28.2	D	21.7	3.1
20	2	2830.	0.	0.	2984.	0.	0.	2984.	3800.	0.	0.	0.	.79	61.	24.5	C	21.1	3.8
21	2	1660.	456.	376.	3440.	456.	376.	3440.	4267.	33.	0.	0.	.81	60.	28.6	D	21.6	3.3
22	2	2270.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	20.6	4.4
23	2	3040.	144.	280.	3208.	144.	280.	3208.	4100.	0.	0.	0.	.78	61.	26.2	D	20.9	3.9
24	2	2190.	0.	0.	2928.	0.	0.	2928.	4200.	0.	0.	0.	.70	65.	22.6	C	19.3	6.0
25	3	2400.	208.	3136.	3136.	208.	3136.	3136.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.85		LOWEST LOS = D	AVG = 61.	24.1		18.9	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	151. VEH-HRS	175. PASS-HRS	1089. VEH-HRS	1263. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	151. VEH-HRS	175. PASS-HRS	1089. VEH-HRS	1263. PASS-HRS
TOTAL TRAV DISTANCE =	9181. VEH-MI.	10650. PASS-MI.	66234. VEH-MI.	76831. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		20. VPMPL	
TOTAL FUEL =	486. GALLONS		3483. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		273. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1032.	0.	1032.	1032.	0.	1032.	3850.	0.	0.	0.	.27	50.	10.3	A	17.4	2.3
2	2	2070.	692.	0.	1724.	692.	0.	1724.	3850.	0.	0.	0.	.45	50.	17.2	B	15.9	2.3
3	3	2300.	1636.	388.	3360.	1636.	388.	3360.	5500.	200.	0.	0.	.61	55.	20.4	C	14.0	2.4
4	3	1020.	0.	0.	2972.	0.	0.	2972.	5700.	0.	0.	0.	.52	62.	16.0	B	19.9	4.8
5	3	710.	264.	0.	3236.	264.	0.	3236.	5700.	0.	0.	0.	.57	62.	17.4	B	16.1	4.4
6	3	3820.	440.	1016.	3676.	440.	1016.	3676.	6118.	32.	0.	0.	.60	62.	19.8	C	17.1	4.8
7	2	1220.	0.	0.	2660.	0.	0.	2660.	4400.	0.	0.	0.	.60	62.	21.5	C	18.2	4.4
8	3	4810.	600.	688.	3260.	600.	688.	3260.	6100.	0.	0.	0.	.53	62.	17.5	B	20.6	4.4
9	2	1370.	0.	0.	2572.	0.	0.	2572.	4000.	0.	0.	0.	.64	62.	20.7	C	23.6	4.4
10	2	660.	244.	0.	2816.	244.	0.	2816.	4376.	24.	0.	0.	.64	62.	22.7	C	23.6	4.4
11	3	790.	568.	736.	3384.	568.	736.	3384.	5628.	472.	0.	0.	.60	62.	18.2	C	30.0	4.4
12	2	1460.	0.	0.	2648.	0.	0.	2648.	4100.	0.	0.	0.	.65	62.	21.4	C	20.6	4.4
13	3	1400.	464.	0.	3112.	464.	0.	3112.	6009.	91.	0.	0.	.52	62.	16.7	B	13.6	4.4
14	3	2600.	0.	644.	3112.	0.	644.	3112.	6009.	91.	0.	0.	.52	62.	16.7	B	20.6	4.4
15	2	2010.	0.	0.	2468.	0.	0.	2468.	3900.	0.	0.	0.	.63	62.	19.9	C	14.7	4.4
16	3	6120.	468.	476.	2936.	468.	476.	2936.	6100.	0.	0.	0.	.48	62.	15.8	B	18.2	4.4
17	2	1240.	0.	0.	2460.	0.	0.	2460.	4300.	0.	0.	0.	.57	62.	19.8	C	18.2	4.4
18	2	930.	288.	0.	2748.	288.	0.	2748.	4100.	0.	0.	0.	.67	62.	22.2	C	20.6	4.4
19	2	5330.	120.	436.	2868.	120.	436.	2868.	3950.	0.	0.	0.	.73	62.	23.1	C	20.6	4.4
20	2	2830.	0.	0.	2432.	0.	0.	2432.	3800.	0.	0.	0.	.64	61.	19.9	C	21.1	3.8
21	2	1660.	500.	460.	2932.	500.	460.	2932.	4224.	76.	0.	0.	.69	61.	24.0	C	21.1	3.8
22	2	2270.	0.	0.	2472.	0.	0.	2472.	4400.	0.	0.	0.	.56	62.	19.9	C	20.6	4.4
23	2	3040.	208.	308.	2680.	208.	308.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	20.6	4.4
24	2	2190.	0.	0.	2372.	0.	0.	2372.	4200.	0.	0.	0.	.56	65.	18.2	C	19.2	6.1
25	3	2400.	156.	2528.	2528.	156.	2528.	2528.	6150.	0.	0.	0.	.41	65.	13.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.73		LOWEST LOS = C	AVG = 61.	19.0		18.8	4.4

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 10 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	120. VEH-HRS	139. PASS-HRS	1208. VEH-HRS	1402. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	120. VEH-HRS	139. PASS-HRS	1208. VEH-HRS	1402. PASS-HRS
TOTAL TRAV DISTANCE =	7342. VEH-MI.	8517. PASS-MI.	73576. VEH-MI.	85349. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		19. VPMPL	
TOTAL FUEL =	392. GALLONS		3874. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		305. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1660.	0.	1660.	1660.	0.	1660.	3850.	0.	0.	0.	.43	50.	16.6	B	17.4	2.3
2	2	2070.	640.	0.	2300.	640.	0.	2300.	3845.	5.	0.	0.	.60	50.	23.0	C	15.9	2.3
3	3	2300.	1736.	324.	4036.	1736.	324.	4036.	5509.	191.	0.	0.	.73	55.	24.5	C	14.0	2.4
4	3	1020.	0.	0.	3712.	0.	0.	3712.	5700.	0.	0.	0.	.65	62.	20.0	C	19.9	4.8
5	3	710.	296.	0.	4008.	296.	0.	4008.	5700.	0.	0.	0.	.70	62.	21.5	C	16.1	4.4
6	3	3820.	372.	980.	4380.	372.	980.	4380.	6136.	14.	0.	0.	.71	62.	23.5	C	17.1	4.8
7	2	1220.	0.	0.	3400.	0.	0.	3400.	4400.	0.	0.	0.	.77	61.	27.7	D	18.4	4.0
8	3	4810.	680.	776.	4080.	680.	776.	4080.	6100.	0.	0.	0.	.67	62.	21.9	C	20.6	4.4
9	2	1370.	0.	0.	3304.	0.	0.	3304.	4000.	0.	0.	0.	.83	60.	27.3	D	24.5	3.4
10	2	660.	240.	0.	3544.	240.	0.	3544.	4380.	20.	0.	0.	.81	61.	29.1	D	24.3	3.7
11	3	790.	512.	740.	4056.	512.	740.	4056.	5656.	444.	0.	0.	.72	62.	21.8	C	30.0	4.4
12	2	1460.	0.	0.	3316.	0.	0.	3316.	4100.	0.	0.	0.	.81	61.	27.3	D	21.2	3.7
13	3	1400.	420.	0.	3736.	420.	0.	3736.	6016.	84.	0.	0.	.62	62.	20.1	C	13.6	4.4
14	3	2600.	0.	760.	3736.	0.	760.	3736.	6016.	84.	0.	0.	.62	62.	20.1	C	20.6	4.4
15	2	2010.	0.	0.	2976.	0.	0.	2976.	3900.	0.	0.	0.	.76	62.	24.0	C	14.7	4.4
16	3	6120.	312.	544.	3288.	312.	544.	3288.	6100.	0.	0.	0.	.54	62.	17.7	B	18.2	4.4
17	2	1240.	0.	0.	2744.	0.	0.	2744.	4300.	0.	0.	0.	.64	62.	22.1	C	18.2	4.4
18	2	930.	220.	0.	2964.	220.	0.	2964.	4100.	0.	0.	0.	.72	62.	23.9	C	20.6	4.4
19	2	5330.	108.	436.	3072.	108.	436.	3072.	3950.	0.	0.	0.	.78	62.	24.8	C	20.6	4.4
20	2	2830.	0.	0.	2636.	0.	0.	2636.	3800.	0.	0.	0.	.69	61.	21.6	C	21.1	3.8
21	2	1660.	440.	420.	3076.	440.	420.	3076.	4264.	36.	0.	0.	.72	61.	25.2	C	21.1	3.8
22	2	2270.	0.	0.	2656.	0.	0.	2656.	4400.	0.	0.	0.	.60	62.	21.4	C	20.6	4.4
23	2	3040.	208.	264.	2864.	208.	264.	2864.	4100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
24	2	2190.	0.	0.	2600.	0.	0.	2600.	4200.	0.	0.	0.	.62	65.	20.0	C	19.2	6.1
25	3	2400.	160.	2760.	2760.	160.	2760.	2760.	6150.	0.	0.	0.	.45	65.	14.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.83 LOWEST LOS = D AVG = 61. 22.1 18.7 4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 11 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	162. PASS-HRS	1348. VEH-HRS	1563. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	162. PASS-HRS	1348. VEH-HRS	1563. PASS-HRS
TOTAL TRAV DISTANCE =	8529. VEH-MI.	9893. PASS-MI.	82105. VEH-MI.	95242. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		20. VPMPL	
TOTAL FUEL =	455. GALLONS		4329. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		342. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1288.	0.	1288.	1288.	0.	1288.	3850.	0.	0.	0.	.33	50.	12.9	B	17.4	2.3
2	2	2070.	724.	0.	2012.	724.	0.	2012.	3850.	0.	0.	0.	.52	50.	20.1	C	15.9	2.3
3	3	2300.	1748.	344.	3760.	1748.	344.	3760.	5516.	184.	0.	0.	.68	55.	22.8	C	14.0	2.4
4	3	1020.	0.	0.	3416.	0.	0.	3416.	5700.	0.	0.	0.	.60	62.	18.4	C	19.9	4.8
5	3	710.	236.	0.	3652.	236.	0.	3652.	5700.	0.	0.	0.	.64	62.	19.6	C	16.1	4.4
6	3	3820.	352.	956.	4004.	352.	956.	4004.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3048.	0.	0.	3048.	4400.	0.	0.	0.	.69	62.	24.6	C	18.2	4.4
8	3	4810.	616.	704.	3664.	616.	704.	3664.	6100.	0.	0.	0.	.60	62.	19.7	C	20.6	4.4
9	2	1370.	0.	0.	2960.	0.	0.	2960.	4000.	0.	0.	0.	.74	62.	23.9	C	23.6	4.4
10	2	660.	244.	0.	3204.	244.	0.	3204.	4376.	24.	0.	0.	.73	62.	25.9	C	23.7	4.3
11	3	790.	648.	836.	3852.	648.	836.	3852.	5564.	536.	0.	0.	.69	62.	20.7	C	30.0	4.4
12	2	1460.	0.	0.	3016.	0.	0.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	20.6	4.4
13	3	1400.	380.	0.	3396.	380.	0.	3396.	5986.	114.	0.	0.	.57	62.	18.3	C	13.6	4.4
14	3	2600.	0.	1080.	3396.	0.	1080.	3396.	5986.	114.	0.	0.	.57	62.	18.3	C	20.6	4.4
15	2	2010.	0.	0.	2316.	0.	0.	2316.	3900.	0.	0.	0.	.59	62.	18.7	C	14.7	4.4
16	3	6120.	364.	636.	2680.	364.	636.	2680.	6100.	0.	0.	0.	.44	62.	14.4	B	18.2	4.4
17	2	1240.	0.	0.	2044.	0.	0.	2044.	4300.	0.	0.	0.	.48	62.	16.5	B	18.2	4.4
18	2	930.	224.	0.	2268.	224.	0.	2268.	4100.	0.	0.	0.	.55	62.	18.3	C	20.6	4.4
19	2	5330.	112.	364.	2380.	112.	364.	2380.	3950.	0.	0.	0.	.60	62.	19.2	C	20.6	4.4
20	2	2830.	0.	0.	2016.	0.	0.	2016.	3800.	0.	0.	0.	.53	61.	16.5	B	21.1	3.8
21	2	1660.	380.	380.	2396.	380.	380.	2396.	4300.	0.	0.	0.	.56	61.	19.6	C	21.1	3.8
22	2	2270.	0.	0.	2016.	0.	0.	2016.	4400.	0.	0.	0.	.46	62.	16.3	B	20.6	4.4
23	2	3040.	148.	244.	2164.	148.	244.	2164.	4100.	0.	0.	0.	.53	62.	17.5	B	20.6	4.4
24	2	2190.	0.	0.	1920.	0.	0.	1920.	4200.	0.	0.	0.	.46	65.	14.8	B	19.2	6.1
25	3	2400.	104.	2024.	2024.	104.	2024.	2024.	6150.	0.	0.	0.	.33	65.	10.4	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.74		LOWEST LOS = C	AVG = 61.	18.4		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 12 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	117. VEH-HRS	136. PASS-HRS	1465. VEH-HRS	1700. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	117. VEH-HRS	136. PASS-HRS	1465. VEH-HRS	1700. PASS-HRS
TOTAL TRAV DISTANCE =	7181. VEH-MI.	8330. PASS-MI.	89286. VEH-MI.	103571. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		20. VPMPL	
TOTAL FUEL =	385. GALLONS		4714. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		373. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1960.	0.	1960.	1960.	0.	1960.	3850.	0.	0.	0.	.51	50.	19.6	C	17.4	2.3
2	2	2070.	672.	0.	2632.	672.	0.	2632.	3841.	9.	0.	0.	.69	50.	26.3	D	15.9	2.3
3	3	2300.	1360.	204.	3992.	1360.	204.	3992.	5560.	140.	0.	0.	.72	55.	24.2	C	14.0	2.4
4	3	1020.	0.	0.	3788.	0.	0.	3788.	5700.	0.	0.	0.	.66	62.	20.4	C	19.9	4.8
5	3	710.	236.	0.	4024.	236.	0.	4024.	5700.	0.	0.	0.	.71	62.	21.6	C	16.1	4.4
6	3	3820.	408.	812.	4432.	408.	812.	4432.	6150.	0.	0.	0.	.72	62.	23.8	C	17.1	4.8
7	2	1220.	0.	0.	3620.	0.	0.	3620.	4400.	0.	0.	0.	.82	61.	29.9	D	18.8	3.5
8	3	4810.	608.	664.	4228.	608.	664.	4228.	6100.	0.	0.	0.	.69	62.	22.7	C	20.6	4.4
9	2	1370.	0.	0.	3564.	0.	0.	3564.	4000.	0.	0.	0.	.89	58.	30.6	D	25.6	2.8
10	2	660.	168.	0.	3732.	168.	0.	3732.	4389.	11.	0.	0.	.85	60.	31.2	D	24.9	3.1
11	3	790.	620.	676.	4352.	620.	676.	4352.	5563.	537.	0.	0.	.78	62.	23.4	C	30.0	4.4
12	2	1460.	0.	0.	3676.	0.	0.	3676.	4100.	0.	0.	0.	.90	58.	31.7	D	22.2	2.7
13	3	1400.	400.	0.	4076.	400.	0.	4076.	5968.	132.	0.	0.	.68	62.	21.9	C	13.6	4.4
14	3	2600.	0.	1360.	4076.	0.	1360.	4076.	5968.	132.	0.	0.	.68	62.	21.9	C	20.6	4.4
15	2	2010.	0.	0.	2716.	0.	0.	2716.	3900.	0.	0.	0.	.70	62.	21.9	C	14.7	4.4
16	3	6120.	284.	624.	3000.	284.	624.	3000.	6100.	0.	0.	0.	.49	62.	16.1	B	18.2	4.4
17	2	1240.	0.	0.	2376.	0.	0.	2376.	4300.	0.	0.	0.	.55	62.	19.2	C	18.2	4.4
18	2	930.	268.	0.	2644.	268.	0.	2644.	4100.	0.	0.	0.	.64	62.	21.3	C	20.6	4.4
19	2	5330.	96.	380.	2740.	96.	380.	2740.	3950.	0.	0.	0.	.69	62.	22.1	C	20.6	4.4
20	2	2830.	0.	0.	2360.	0.	0.	2360.	3800.	0.	0.	0.	.62	61.	19.3	C	21.1	3.8
21	2	1660.	340.	288.	2700.	340.	288.	2700.	4300.	0.	0.	0.	.63	61.	22.1	C	21.1	3.8
22	2	2270.	0.	0.	2412.	0.	0.	2412.	4400.	0.	0.	0.	.55	62.	19.5	C	20.6	4.4
23	2	3040.	104.	228.	2516.	104.	228.	2516.	4100.	0.	0.	0.	.61	62.	20.3	C	20.6	4.4
24	2	2190.	0.	0.	2288.	0.	0.	2288.	4200.	0.	0.	0.	.54	65.	17.6	B	19.2	6.1
25	3	2400.	120.	2408.	2408.	120.	2408.	2408.	6150.	0.	0.	0.	.39	65.	12.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.90		LOWEST LOS = D	AVG = 61.	21.5		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	158. PASS-HRS	1602. VEH-HRS	1858. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	136. VEH-HRS	158. PASS-HRS	1602. VEH-HRS	1858. PASS-HRS
TOTAL TRAV DISTANCE =	8304. VEH-MI.	9632. PASS-MI.	97589. VEH-MI.	113203. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		20. VPMPL	
TOTAL FUEL =	442. GALLONS		5156. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		408. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1760.	0.	1760.	1760.	0.	1760.	3850.	0.	0.	0.	.46	50.	17.6	B	17.4	2.3
2	2	2070.	632.	0.	2392.	632.	0.	2392.	3842.	8.	0.	0.	.62	50.	23.9	C	15.9	2.3
3	3	2300.	1420.	336.	3812.	1420.	336.	3812.	5478.	222.	0.	0.	.70	55.	23.1	C	14.0	2.4
4	3	1020.	0.	0.	3476.	0.	0.	3476.	5700.	0.	0.	0.	.61	62.	18.7	C	19.9	4.8
5	3	710.	184.	0.	3660.	184.	0.	3660.	5700.	0.	0.	0.	.64	62.	19.7	C	16.1	4.4
6	3	3820.	288.	716.	3948.	288.	716.	3948.	6150.	0.	0.	0.	.64	62.	21.2	C	17.1	4.8
7	2	1220.	0.	0.	3232.	0.	0.	3232.	4400.	0.	0.	0.	.73	62.	26.1	D	18.2	4.3
8	3	4810.	536.	672.	3768.	536.	672.	3768.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	3096.	0.	0.	3096.	4000.	0.	0.	0.	.77	61.	25.2	C	23.9	4.0
10	2	660.	260.	0.	3356.	260.	0.	3356.	4384.	16.	0.	0.	.77	62.	27.3	D	23.8	4.1
11	3	790.	512.	544.	3868.	512.	544.	3868.	5640.	460.	0.	0.	.69	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3324.	0.	0.	3324.	4100.	0.	0.	0.	.81	61.	27.3	D	21.2	3.6
13	3	1400.	280.	0.	3604.	280.	0.	3604.	6004.	96.	0.	0.	.60	62.	19.4	C	13.6	4.4
14	3	2600.	0.	1224.	3604.	0.	1224.	3604.	6004.	96.	0.	0.	.60	62.	19.4	C	20.6	4.4
15	2	2010.	0.	0.	2380.	0.	0.	2380.	3900.	0.	0.	0.	.61	62.	19.2	C	14.7	4.4
16	3	6120.	296.	588.	2676.	296.	588.	2676.	6100.	0.	0.	0.	.44	62.	14.4	B	18.2	4.4
17	2	1240.	0.	0.	2088.	0.	0.	2088.	4300.	0.	0.	0.	.49	62.	16.8	B	18.2	4.4
18	2	930.	288.	0.	2376.	288.	0.	2376.	4100.	0.	0.	0.	.58	62.	19.2	C	20.6	4.4
19	2	5330.	112.	344.	2488.	112.	344.	2488.	3950.	0.	0.	0.	.63	62.	20.1	C	20.6	4.4
20	2	2830.	0.	0.	2144.	0.	0.	2144.	3800.	0.	0.	0.	.56	61.	17.6	B	21.1	3.8
21	2	1660.	320.	396.	2464.	320.	396.	2464.	4300.	0.	0.	0.	.57	61.	20.2	C	21.1	3.8
22	2	2270.	0.	0.	2068.	0.	0.	2068.	4400.	0.	0.	0.	.47	62.	16.7	B	20.6	4.4
23	2	3040.	124.	200.	2192.	124.	200.	2192.	4100.	0.	0.	0.	.53	62.	17.7	B	20.6	4.4
24	2	2190.	0.	0.	1992.	0.	0.	1992.	4200.	0.	0.	0.	.47	65.	15.3	B	19.2	6.1
25	3	2400.	64.	2056.	2056.	64.	2056.	2056.	6150.	0.	0.	0.	.33	65.	10.5	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 61.	19.1		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 14 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	141. PASS-HRS	1723. VEH-HRS	1999. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	122. VEH-HRS	141. PASS-HRS	1723. VEH-HRS	1999. PASS-HRS
TOTAL TRAV DISTANCE =	7420. VEH-MI.	8607. PASS-MI.	105009. VEH-MI.	121810. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	397. GALLONS		5553. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		439. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1488.	0.	1488.	1488.	0.	1488.	3850.	0.	0.	0.	.39	50.	14.9	B	17.4	2.3
2	2	2070.	612.	0.	2100.	612.	0.	2100.	3849.	1.	0.	0.	.55	50.	21.0	C	15.9	2.3
3	3	2300.	1436.	264.	3536.	1436.	264.	3536.	5543.	157.	0.	0.	.64	55.	21.4	C	14.0	2.4
4	3	1020.	0.	0.	3272.	0.	0.	3272.	5700.	0.	0.	0.	.57	62.	17.6	B	19.9	4.8
5	3	710.	200.	0.	3472.	200.	0.	3472.	5700.	0.	0.	0.	.61	62.	18.7	C	16.1	4.4
6	3	3820.	308.	780.	3780.	308.	780.	3780.	6150.	0.	0.	0.	.61	62.	20.3	C	17.1	4.8
7	2	1220.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	18.2	4.4
8	3	4810.	424.	752.	3424.	424.	752.	3424.	6100.	0.	0.	0.	.56	62.	18.4	C	20.6	4.4
9	2	1370.	0.	0.	2672.	0.	0.	2672.	4000.	0.	0.	0.	.67	62.	21.5	C	23.6	4.4
10	2	660.	228.	0.	2900.	228.	0.	2900.	4382.	18.	0.	0.	.66	62.	23.4	C	23.6	4.4
11	3	790.	468.	604.	3368.	468.	604.	3368.	5694.	406.	0.	0.	.59	62.	18.1	C	30.0	4.4
12	2	1460.	0.	0.	2764.	0.	0.	2764.	4100.	0.	0.	0.	.67	62.	22.3	C	20.6	4.4
13	3	1400.	308.	0.	3072.	308.	0.	3072.	6040.	60.	0.	0.	.51	62.	16.5	B	13.6	4.4
14	3	2600.	0.	600.	3072.	0.	600.	3072.	6040.	60.	0.	0.	.51	62.	16.5	B	20.6	4.4
15	2	2010.	0.	0.	2472.	0.	0.	2472.	3900.	0.	0.	0.	.63	62.	19.9	C	14.7	4.4
16	3	6120.	336.	504.	2808.	336.	504.	2808.	6100.	0.	0.	0.	.46	62.	15.1	B	18.2	4.4
17	2	1240.	0.	0.	2304.	0.	0.	2304.	4300.	0.	0.	0.	.54	62.	18.6	C	18.2	4.4
18	2	930.	320.	0.	2624.	320.	0.	2624.	4100.	0.	0.	0.	.64	62.	21.2	C	20.6	4.4
19	2	5330.	116.	444.	2740.	116.	444.	2740.	3950.	0.	0.	0.	.69	62.	22.1	C	20.6	4.4
20	2	2830.	0.	0.	2296.	0.	0.	2296.	3800.	0.	0.	0.	.60	61.	18.8	C	21.1	3.8
21	2	1660.	248.	336.	2544.	248.	336.	2544.	4300.	0.	0.	0.	.59	61.	20.9	C	21.1	3.8
22	2	2270.	0.	0.	2208.	0.	0.	2208.	4400.	0.	0.	0.	.50	62.	17.8	B	20.6	4.4
23	2	3040.	76.	184.	2284.	76.	184.	2284.	4100.	0.	0.	0.	.56	62.	18.4	C	20.6	4.4
24	2	2190.	0.	0.	2100.	0.	0.	2100.	4200.	0.	0.	0.	.50	65.	16.2	B	19.2	6.1
25	3	2400.	100.	2200.	2200.	100.	2200.	2200.	6150.	0.	0.	0.	.36	65.	11.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.69		LOWEST LOS = C	AVG = 61.	18.7		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 15 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1841. VEH-HRS	2136. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1841. VEH-HRS	2136. PASS-HRS
TOTAL TRAV DISTANCE =	7233. VEH-MI.	8390. PASS-MI.	112242. VEH-MI.	130201. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	387. GALLONS		5940. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		471. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1536.	0.	1536.	1536.	0.	1536.	3850.	0.	0.	0.	.40	50.	15.4	B	17.4	2.3
2	2	2070.	576.	0.	2112.	576.	0.	2112.	3849.	1.	0.	0.	.55	50.	21.1	C	15.9	2.3
3	3	2300.	1536.	304.	3648.	1536.	304.	3648.	5521.	179.	0.	0.	.66	55.	22.1	C	14.0	2.4
4	3	1020.	0.	0.	3344.	0.	0.	3344.	5700.	0.	0.	0.	.59	62.	18.0	B	19.9	4.8
5	3	710.	172.	0.	3516.	172.	0.	3516.	5700.	0.	0.	0.	.62	62.	18.9	C	16.1	4.4
6	3	3820.	416.	884.	3932.	416.	884.	3932.	6150.	0.	0.	0.	.64	62.	21.1	C	17.1	4.8
7	2	1220.	0.	0.	3048.	0.	0.	3048.	4400.	0.	0.	0.	.69	62.	24.6	C	18.2	4.4
8	3	4810.	548.	700.	3596.	548.	700.	3596.	6100.	0.	0.	0.	.59	62.	19.3	C	20.6	4.4
9	2	1370.	0.	0.	2896.	0.	0.	2896.	4000.	0.	0.	0.	.72	62.	23.4	C	23.6	4.4
10	2	660.	176.	0.	3072.	176.	0.	3072.	4384.	16.	0.	0.	.70	62.	24.8	C	23.6	4.4
11	3	790.	488.	740.	3560.	488.	740.	3560.	5692.	408.	0.	0.	.63	62.	19.1	C	30.0	4.4
12	2	1460.	0.	0.	2820.	0.	0.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	20.6	4.4
13	3	1400.	396.	0.	3216.	396.	0.	3216.	6036.	64.	0.	0.	.53	62.	17.3	B	13.6	4.4
14	3	2600.	0.	536.	3216.	0.	536.	3216.	6036.	64.	0.	0.	.53	62.	17.3	B	20.6	4.4
15	2	2010.	0.	0.	2680.	0.	0.	2680.	3900.	0.	0.	0.	.69	62.	21.6	C	14.7	4.4
16	3	6120.	312.	536.	2992.	312.	536.	2992.	6100.	0.	0.	0.	.49	62.	16.1	B	18.2	4.4
17	2	1240.	0.	0.	2456.	0.	0.	2456.	4300.	0.	0.	0.	.57	62.	19.8	C	18.2	4.4
18	2	930.	232.	0.	2688.	232.	0.	2688.	4100.	0.	0.	0.	.66	62.	21.7	C	20.6	4.4
19	2	5330.	136.	456.	2824.	136.	456.	2824.	3950.	0.	0.	0.	.71	62.	22.8	C	20.6	4.4
20	2	2830.	0.	0.	2368.	0.	0.	2368.	3800.	0.	0.	0.	.62	61.	19.4	C	21.1	3.8
21	2	1660.	308.	424.	2676.	308.	424.	2676.	4300.	0.	0.	0.	.62	61.	21.9	C	21.1	3.8
22	2	2270.	0.	0.	2252.	0.	0.	2252.	4400.	0.	0.	0.	.51	62.	18.2	C	20.6	4.4
23	2	3040.	100.	236.	2352.	100.	236.	2352.	4100.	0.	0.	0.	.57	62.	19.0	C	20.6	4.4
24	2	2190.	0.	0.	2116.	0.	0.	2116.	4200.	0.	0.	0.	.50	65.	16.3	B	19.2	6.1
25	3	2400.	76.	2192.	2192.	76.	2192.	2192.	6150.	0.	0.	0.	.36	65.	11.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.72		LOWEST LOS = C	AVG = 61.	19.4		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 16 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	123. VEH-HRS	143. PASS-HRS	1964. VEH-HRS	2278. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	123. VEH-HRS	143. PASS-HRS	1964. VEH-HRS	2278. PASS-HRS
TOTAL TRAV DISTANCE =	7522. VEH-MI.	8725. PASS-MI.	119764. VEH-MI.	138926. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	403. GALLONS		6343. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		503. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1812.	0.	1812.	1812.	0.	1812.	3850.	0.	0.	0.	.47	50.	18.1	C	17.4	2.3
2	2	2070.	620.	0.	2432.	620.	0.	2432.	3843.	7.	0.	0.	.63	50.	24.3	C	15.9	2.3
3	3	2300.	1256.	244.	3688.	1256.	244.	3688.	5548.	152.	0.	0.	.66	55.	22.4	C	14.0	2.4
4	3	1020.	0.	0.	3444.	0.	0.	3444.	5700.	0.	0.	0.	.60	62.	18.5	C	19.9	4.8
5	3	710.	172.	0.	3616.	172.	0.	3616.	5700.	0.	0.	0.	.63	62.	19.4	C	16.1	4.4
6	3	3820.	344.	848.	3960.	344.	848.	3960.	6150.	0.	0.	0.	.64	62.	21.3	C	17.1	4.8
7	2	1220.	0.	0.	3112.	0.	0.	3112.	4400.	0.	0.	0.	.71	62.	25.1	C	18.2	4.3
8	3	4810.	492.	848.	3604.	492.	848.	3604.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
9	2	1370.	0.	0.	2756.	0.	0.	2756.	4000.	0.	0.	0.	.69	62.	22.2	C	23.6	4.4
10	2	660.	148.	0.	2904.	148.	0.	2904.	4387.	13.	0.	0.	.66	62.	23.4	C	23.6	4.4
11	3	790.	580.	656.	3484.	580.	656.	3484.	5613.	487.	0.	0.	.62	62.	18.7	C	30.0	4.4
12	2	1460.	0.	0.	2828.	0.	0.	2828.	4100.	0.	0.	0.	.69	62.	22.8	C	20.6	4.4
13	3	1400.	372.	0.	3200.	372.	0.	3200.	6040.	60.	0.	0.	.53	62.	17.2	B	13.6	4.4
14	3	2600.	0.	512.	3200.	0.	512.	3200.	6040.	60.	0.	0.	.53	62.	17.2	B	20.6	4.4
15	2	2010.	0.	0.	2688.	0.	0.	2688.	3900.	0.	0.	0.	.69	62.	21.7	C	14.7	4.4
16	3	6120.	272.	652.	2960.	272.	652.	2960.	6100.	0.	0.	0.	.49	62.	15.9	B	18.2	4.4
17	2	1240.	0.	0.	2308.	0.	0.	2308.	4300.	0.	0.	0.	.54	62.	18.6	C	18.2	4.4
18	2	930.	256.	0.	2564.	256.	0.	2564.	4100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
19	2	5330.	128.	456.	2692.	128.	456.	2692.	3950.	0.	0.	0.	.68	62.	21.7	C	20.6	4.4
20	2	2830.	0.	0.	2236.	0.	0.	2236.	3800.	0.	0.	0.	.59	61.	18.3	C	21.1	3.8
21	2	1660.	236.	376.	2472.	236.	376.	2472.	4300.	0.	0.	0.	.57	61.	20.3	C	21.1	3.8
22	2	2270.	0.	0.	2096.	0.	0.	2096.	4400.	0.	0.	0.	.48	62.	16.9	B	20.6	4.4
23	2	3040.	88.	248.	2184.	88.	248.	2184.	4100.	0.	0.	0.	.53	62.	17.6	B	20.6	4.4
24	2	2190.	0.	0.	1936.	0.	0.	1936.	4200.	0.	0.	0.	.46	65.	14.9	B	19.2	6.1
25	3	2400.	68.	2004.	2004.	68.	2004.	2004.	6150.	0.	0.	0.	.33	65.	10.3	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.71		LOWEST LOS = C	AVG = 61.	19.1		18.6	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 17 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	2085. VEH-HRS	2419. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	2085. VEH-HRS	2419. PASS-HRS
TOTAL TRAV DISTANCE =	7392. VEH-MI.	8575. PASS-MI.	127156. VEH-MI.	147501. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	397. GALLONS		6739. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		535. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1836.	0.	1836.	1836.	0.	1836.	3850.	0.	0.	0.	.48	50.	18.4	C	17.4	2.3
2	2	2070.	652.	0.	2488.	652.	0.	2488.	3842.	8.	0.	0.	.65	50.	24.9	C	15.9	2.3
3	3	2300.	1348.	252.	3836.	1348.	252.	3836.	5534.	166.	0.	0.	.69	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3584.	0.	0.	3584.	5700.	0.	0.	0.	.63	62.	19.3	C	19.9	4.8
5	3	710.	220.	0.	3804.	220.	0.	3804.	5700.	0.	0.	0.	.67	62.	20.5	C	16.1	4.4
6	3	3820.	412.	884.	4216.	412.	884.	4216.	6150.	0.	0.	0.	.69	62.	22.7	C	17.1	4.8
7	2	1220.	0.	0.	3332.	0.	0.	3332.	4400.	0.	0.	0.	.76	62.	27.0	D	18.3	4.1
8	3	4810.	468.	788.	3800.	468.	788.	3800.	6100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
9	2	1370.	0.	0.	3012.	0.	0.	3012.	4000.	0.	0.	0.	.75	62.	24.3	C	23.6	4.4
10	2	660.	204.	0.	3216.	204.	0.	3216.	4384.	16.	0.	0.	.73	62.	26.0	D	23.7	4.3
11	3	790.	596.	656.	3812.	596.	656.	3812.	5588.	512.	0.	0.	.68	62.	20.5	C	30.0	4.4
12	2	1460.	0.	0.	3156.	0.	0.	3156.	4100.	0.	0.	0.	.77	61.	25.7	C	20.8	4.1
13	3	1400.	396.	0.	3552.	396.	0.	3552.	6028.	72.	0.	0.	.59	62.	19.1	C	13.6	4.4
14	3	2600.	0.	652.	3552.	0.	652.	3552.	6028.	72.	0.	0.	.59	62.	19.1	C	20.6	4.4
15	2	2010.	0.	0.	2900.	0.	0.	2900.	3900.	0.	0.	0.	.74	62.	23.4	C	14.7	4.4
16	3	6120.	308.	580.	3208.	308.	580.	3208.	6100.	0.	0.	0.	.53	62.	17.2	B	18.2	4.4
17	2	1240.	0.	0.	2628.	0.	0.	2628.	4300.	0.	0.	0.	.61	62.	21.2	C	18.2	4.4
18	2	930.	300.	0.	2928.	300.	0.	2928.	4100.	0.	0.	0.	.71	62.	23.6	C	20.6	4.4
19	2	5330.	112.	420.	3040.	112.	420.	3040.	3950.	0.	0.	0.	.77	62.	24.5	C	20.6	4.4
20	2	2830.	0.	0.	2620.	0.	0.	2620.	3800.	0.	0.	0.	.69	61.	21.5	C	21.1	3.8
21	2	1660.	312.	372.	2932.	312.	372.	2932.	4300.	0.	0.	0.	.68	61.	24.0	C	21.1	3.8
22	2	2270.	0.	0.	2560.	0.	0.	2560.	4400.	0.	0.	0.	.58	62.	20.6	C	20.6	4.4
23	2	3040.	72.	264.	2632.	72.	264.	2632.	4100.	0.	0.	0.	.64	62.	21.2	C	20.6	4.4
24	2	2190.	0.	0.	2368.	0.	0.	2368.	4200.	0.	0.	0.	.56	65.	18.2	C	19.2	6.1
25	3	2400.	88.	2456.	2456.	88.	2456.	2456.	6150.	0.	0.	0.	.40	65.	12.6	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.77		LOWEST LOS = D	AVG = 61.	21.2		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2219. VEH-HRS	2574. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2219. VEH-HRS	2574. PASS-HRS
TOTAL TRAV DISTANCE =	8172. VEH-MI.	9480. PASS-MI.	135328. VEH-MI.	156981. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		20. VPMPL	
TOTAL FUEL =	437. GALLONS		7177. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		570. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1796.	0.	1796.	1796.	0.	1796.	3850.	0.	0.	0.	.47	50.	18.0	B	17.4	2.3
2	2	2070.	620.	0.	2416.	620.	0.	2416.	3843.	7.	0.	0.	.63	50.	24.2	C	15.9	2.3
3	3	2300.	1312.	248.	3728.	1312.	248.	3728.	5540.	160.	0.	0.	.67	55.	22.6	C	14.0	2.4
4	3	1020.	0.	0.	3480.	0.	0.	3480.	5700.	0.	0.	0.	.61	62.	18.7	C	19.9	4.8
5	3	710.	212.	0.	3692.	212.	0.	3692.	5700.	0.	0.	0.	.65	62.	19.8	C	16.1	4.4
6	3	3820.	292.	876.	3984.	292.	876.	3984.	6150.	0.	0.	0.	.65	62.	21.4	C	17.1	4.8
7	2	1220.	0.	0.	3108.	0.	0.	3108.	4400.	0.	0.	0.	.71	62.	25.1	C	18.2	4.3
8	3	4810.	500.	760.	3608.	500.	760.	3608.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
9	2	1370.	0.	0.	2848.	0.	0.	2848.	4000.	0.	0.	0.	.71	62.	23.0	C	23.6	4.4
10	2	660.	220.	0.	3068.	220.	0.	3068.	4385.	15.	0.	0.	.70	62.	24.7	C	23.6	4.4
11	3	790.	640.	552.	3708.	640.	552.	3708.	5627.	473.	0.	0.	.66	62.	19.9	C	30.0	4.4
12	2	1460.	0.	0.	3156.	0.	0.	3156.	4100.	0.	0.	0.	.77	61.	25.7	C	20.8	4.1
13	3	1400.	380.	0.	3536.	380.	0.	3536.	6020.	80.	0.	0.	.59	62.	19.0	C	13.6	4.4
14	3	2600.	0.	744.	3536.	0.	744.	3536.	6020.	80.	0.	0.	.59	62.	19.0	C	20.6	4.4
15	2	2010.	0.	0.	2792.	0.	0.	2792.	3900.	0.	0.	0.	.72	62.	22.5	C	14.7	4.4
16	3	6120.	260.	576.	3052.	260.	576.	3052.	6100.	0.	0.	0.	.50	62.	16.4	B	18.2	4.4
17	2	1240.	0.	0.	2476.	0.	0.	2476.	4300.	0.	0.	0.	.58	62.	20.0	C	18.2	4.4
18	2	930.	292.	0.	2768.	292.	0.	2768.	4100.	0.	0.	0.	.68	62.	22.3	C	20.6	4.4
19	2	5330.	92.	492.	2860.	92.	492.	2860.	3950.	0.	0.	0.	.72	62.	23.1	C	20.6	4.4
20	2	2830.	0.	0.	2368.	0.	0.	2368.	3800.	0.	0.	0.	.62	61.	19.4	C	21.1	3.8
21	2	1660.	312.	412.	2680.	312.	412.	2680.	4300.	0.	0.	0.	.62	61.	22.0	C	21.1	3.8
22	2	2270.	0.	0.	2268.	0.	0.	2268.	4400.	0.	0.	0.	.52	62.	18.3	C	20.6	4.4
23	2	3040.	80.	240.	2348.	80.	240.	2348.	4100.	0.	0.	0.	.57	62.	18.9	C	20.6	4.4
24	2	2190.	0.	0.	2108.	0.	0.	2108.	4200.	0.	0.	0.	.50	65.	16.2	B	19.2	6.1
25	3	2400.	112.	2220.	2220.	112.	2220.	2220.	6150.	0.	0.	0.	.36	65.	11.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.77		LOWEST LOS = C	AVG = 61.	20.0		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 19 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	126. VEH-HRS	147. PASS-HRS	2345. VEH-HRS	2720. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	126. VEH-HRS	147. PASS-HRS	2345. VEH-HRS	2720. PASS-HRS
TOTAL TRAV DISTANCE =	7726. VEH-MI.	8962. PASS-MI.	143054. VEH-MI.	165943. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		20. VPMPL	
TOTAL FUEL =	414. GALLONS		7591. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		604. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2108.	0.	2108.	2108.	0.	2108.	3850.	0.	0.	0.	.55	50.	21.1	C	17.4	2.3
2	2	2070.	736.	0.	2844.	736.	0.	2844.	3832.	18.	0.	0.	.74	50.	28.4	D	15.9	2.3
3	3	2300.	1548.	384.	4392.	1548.	384.	4392.	5430.	270.	0.	0.	.81	55.	26.6	D	14.0	2.4
4	3	1020.	0.	0.	4008.	0.	0.	4008.	5700.	0.	0.	0.	.70	62.	21.5	C	19.9	4.8
5	3	710.	200.	0.	4208.	200.	0.	4208.	5700.	0.	0.	0.	.74	62.	22.6	C	16.1	4.4
6	3	3820.	400.	888.	4608.	400.	888.	4608.	6150.	0.	0.	0.	.75	62.	24.8	C	17.1	4.8
7	2	1220.	0.	0.	3720.	0.	0.	3720.	4400.	0.	0.	0.	.85	60.	31.1	D	19.1	3.2
8	3	4810.	560.	856.	4280.	560.	856.	4280.	6100.	0.	0.	0.	.70	62.	23.0	C	20.6	4.4
9	2	1370.	0.	0.	3424.	0.	0.	3424.	4000.	0.	0.	0.	.86	60.	28.7	D	25.0	3.1
10	2	660.	276.	0.	3700.	276.	0.	3700.	4380.	20.	0.	0.	.84	60.	30.9	D	24.8	3.2
11	3	790.	668.	728.	4368.	668.	728.	4368.	5520.	580.	0.	0.	.79	62.	23.5	C	30.0	4.4
12	2	1460.	0.	0.	3640.	0.	0.	3640.	4100.	0.	0.	0.	.89	58.	31.2	D	22.1	2.8
13	3	1400.	408.	0.	4048.	408.	0.	4048.	5992.	108.	0.	0.	.68	62.	21.8	C	13.6	4.4
14	3	2600.	0.	1048.	4048.	0.	1048.	4048.	5992.	108.	0.	0.	.68	62.	21.8	C	20.6	4.4
15	2	2010.	0.	0.	3000.	0.	0.	3000.	3900.	0.	0.	0.	.77	62.	24.2	C	14.7	4.4
16	3	6120.	384.	692.	3384.	384.	692.	3384.	6100.	0.	0.	0.	.55	62.	18.2	C	18.2	4.4
17	2	1240.	0.	0.	2692.	0.	0.	2692.	4300.	0.	0.	0.	.63	62.	21.7	C	18.2	4.4
18	2	930.	436.	0.	3128.	436.	0.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
19	2	5330.	76.	468.	3204.	76.	468.	3204.	3950.	0.	0.	0.	.81	61.	26.4	D	21.2	3.6
20	2	2830.	0.	0.	2736.	0.	0.	2736.	3800.	0.	0.	0.	.72	61.	22.4	C	21.1	3.8
21	2	1660.	256.	376.	2992.	256.	376.	2992.	4300.	0.	0.	0.	.70	61.	24.5	C	21.1	3.8
22	2	2270.	0.	0.	2616.	0.	0.	2616.	4400.	0.	0.	0.	.59	62.	21.1	C	20.6	4.4
23	2	3040.	108.	244.	2724.	108.	244.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	20.6	4.4
24	2	2190.	0.	0.	2480.	0.	0.	2480.	4200.	0.	0.	0.	.59	65.	19.1	C	19.2	6.1
25	3	2400.	60.	2540.	2540.	60.	2540.	2540.	6150.	0.	0.	0.	.41	65.	13.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 61.	23.1		18.8	4.1

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 20 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	146. VEH-HRS	169. PASS-HRS	2491. VEH-HRS	2890. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	146. VEH-HRS	169. PASS-HRS	2491. VEH-HRS	2890. PASS-HRS
TOTAL TRAV DISTANCE =	8876. VEH-MI.	10296. PASS-MI.	151930. VEH-MI.	176239. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		20. VPMPL	
TOTAL FUEL =	472. GALLONS		8063. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		640. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1988.	0.	1988.	1988.	0.	1988.	3850.	0.	0.	0.	.52	50.	19.9	C	17.4	2.3
2	2	2070.	432.	0.	2420.	432.	0.	2420.	3843.	7.	0.	0.	.63	50.	24.2	C	15.9	2.3
3	3	2300.	1424.	240.	3844.	1424.	240.	3844.	5540.	160.	0.	0.	.69	55.	23.3	C	14.0	2.4
4	3	1020.	0.	0.	3604.	0.	0.	3604.	5700.	0.	0.	0.	.63	62.	19.4	C	19.9	4.8
5	3	710.	196.	0.	3800.	196.	0.	3800.	5700.	0.	0.	0.	.67	62.	20.4	C	16.1	4.4
6	3	3820.	340.	812.	4140.	340.	812.	4140.	6150.	0.	0.	0.	.67	62.	22.3	C	17.1	4.8
7	2	1220.	0.	0.	3328.	0.	0.	3328.	4400.	0.	0.	0.	.76	62.	27.0	D	18.3	4.1
8	3	4810.	492.	684.	3820.	492.	684.	3820.	6100.	0.	0.	0.	.63	62.	20.5	C	20.6	4.4
9	2	1370.	0.	0.	3136.	0.	0.	3136.	4000.	0.	0.	0.	.78	61.	25.6	C	24.0	3.9
10	2	660.	280.	0.	3416.	280.	0.	3416.	4376.	24.	0.	0.	.78	61.	27.8	D	24.0	4.0
11	3	790.	676.	744.	4092.	676.	744.	4092.	5520.	580.	0.	0.	.74	62.	22.0	C	30.0	4.4
12	2	1460.	0.	0.	3348.	0.	0.	3348.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
13	3	1400.	436.	0.	3784.	436.	0.	3784.	6016.	84.	0.	0.	.63	62.	20.3	C	13.6	4.4
14	3	2600.	0.	736.	3784.	0.	736.	3784.	6016.	84.	0.	0.	.63	62.	20.3	C	20.6	4.4
15	2	2010.	0.	0.	3048.	0.	0.	3048.	3900.	0.	0.	0.	.78	62.	24.6	C	14.7	4.4
16	3	6120.	376.	656.	3424.	376.	656.	3424.	6100.	0.	0.	0.	.56	62.	18.4	C	18.2	4.4
17	2	1240.	0.	0.	2768.	0.	0.	2768.	4300.	0.	0.	0.	.64	62.	22.3	C	18.2	4.4
18	2	930.	452.	0.	3220.	452.	0.	3220.	4100.	0.	0.	0.	.79	61.	26.3	D	21.0	3.9
19	2	5330.	104.	512.	3324.	104.	512.	3324.	3950.	0.	0.	0.	.84	60.	27.7	D	21.6	3.2
20	2	2830.	0.	0.	2812.	0.	0.	2812.	3800.	0.	0.	0.	.74	61.	23.0	C	21.1	3.8
21	2	1660.	316.	424.	3128.	316.	424.	3128.	4300.	0.	0.	0.	.73	61.	25.6	C	21.1	3.8
22	2	2270.	0.	0.	2704.	0.	0.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	20.6	4.4
23	2	3040.	100.	328.	2804.	100.	328.	2804.	4100.	0.	0.	0.	.68	62.	22.6	C	20.6	4.4
24	2	2190.	0.	0.	2476.	0.	0.	2476.	4200.	0.	0.	0.	.59	65.	19.0	C	19.2	6.1
25	3	2400.	72.	2548.	2548.	72.	2548.	2548.	6150.	0.	0.	0.	.41	65.	13.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.84 LOWEST LOS = D AVG = 61. 22.2 18.8 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	140. VEH-HRS	162. PASS-HRS	2631. VEH-HRS	3052. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	162. PASS-HRS	2631. VEH-HRS	3052. PASS-HRS
TOTAL TRAV DISTANCE =	8516. VEH-MI.	9878. PASS-MI.	160446. VEH-MI.	186117. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		20. VPMPL	
TOTAL FUEL =	452. GALLONS		8515. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		676. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1720.	0.	1720.	1720.	0.	1720.	3850.	0.	0.	0.	.45	50.	17.2	B	17.4	2.3
2	2	2070.	564.	0.	2284.	564.	0.	2284.	3845.	5.	0.	0.	.59	50.	22.8	C	15.9	2.3
3	3	2300.	1392.	296.	3676.	1392.	296.	3676.	5518.	182.	0.	0.	.67	55.	22.3	C	14.0	2.4
4	3	1020.	0.	0.	3380.	0.	0.	3380.	5700.	0.	0.	0.	.59	62.	18.2	C	19.9	4.8
5	3	710.	240.	0.	3620.	240.	0.	3620.	5700.	0.	0.	0.	.64	62.	19.5	C	16.1	4.4
6	3	3820.	388.	892.	4008.	388.	892.	4008.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3116.	0.	0.	3116.	4400.	0.	0.	0.	.71	62.	25.2	C	18.2	4.3
8	3	4810.	632.	804.	3748.	632.	804.	3748.	6100.	0.	0.	0.	.61	62.	20.2	C	20.6	4.4
9	2	1370.	0.	0.	2944.	0.	0.	2944.	4000.	0.	0.	0.	.74	62.	23.7	C	23.6	4.4
10	2	660.	392.	0.	3336.	392.	0.	3336.	4367.	33.	0.	0.	.76	62.	27.1	D	23.8	4.1
11	3	790.	680.	740.	4016.	680.	740.	4016.	5505.	595.	0.	0.	.73	62.	21.6	C	30.0	4.4
12	2	1460.	0.	0.	3276.	0.	0.	3276.	4100.	0.	0.	0.	.80	61.	26.8	D	21.1	3.8
13	3	1400.	304.	0.	3580.	304.	0.	3580.	6060.	40.	0.	0.	.59	62.	19.2	C	13.6	4.4
14	3	2600.	0.	492.	3580.	0.	492.	3580.	6060.	40.	0.	0.	.59	62.	19.2	C	20.6	4.4
15	2	2010.	0.	0.	3088.	0.	0.	3088.	3900.	0.	0.	0.	.79	61.	25.2	C	14.9	3.9
16	3	6120.	352.	640.	3440.	352.	640.	3440.	6100.	0.	0.	0.	.56	62.	18.5	C	18.2	4.4
17	2	1240.	0.	0.	2800.	0.	0.	2800.	4300.	0.	0.	0.	.65	62.	22.6	C	18.2	4.4
18	2	930.	312.	0.	3112.	312.	0.	3112.	4100.	0.	0.	0.	.76	62.	25.3	C	20.8	4.1
19	2	5330.	152.	592.	3264.	152.	592.	3264.	3950.	0.	0.	0.	.83	60.	27.0	D	21.4	3.4
20	2	2830.	0.	0.	2672.	0.	0.	2672.	3800.	0.	0.	0.	.70	61.	21.9	C	21.1	3.8
21	2	1660.	292.	348.	2964.	292.	348.	2964.	4300.	0.	0.	0.	.69	61.	24.3	C	21.1	3.8
22	2	2270.	0.	0.	2616.	0.	0.	2616.	4400.	0.	0.	0.	.59	62.	21.1	C	20.6	4.4
23	2	3040.	88.	376.	2704.	88.	376.	2704.	4100.	0.	0.	0.	.66	62.	21.8	C	20.6	4.4
24	2	2190.	0.	0.	2328.	0.	0.	2328.	4200.	0.	0.	0.	.55	65.	17.9	B	19.2	6.1
25	3	2400.	104.	2432.	2432.	104.	2432.	2432.	6150.	0.	0.	0.	.40	65.	12.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.83		LOWEST LOS = D	AVG = 61.	21.5		18.8	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 22 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	2766. VEH-HRS	3209. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	2766. VEH-HRS	3209. PASS-HRS
TOTAL TRAV DISTANCE =	8253. VEH-MI.	9574. PASS-MI.	168699. VEH-MI.	195691. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		20. VPMPL	
TOTAL FUEL =	439. GALLONS		8953. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		710. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1856.	0.	1856.	1856.	0.	1856.	3850.	0.	0.	0.	.48	50.	18.6	C	17.4	2.3
2	2	2070.	568.	0.	2424.	568.	0.	2424.	3841.	9.	0.	0.	.63	50.	24.2	C	15.9	2.3
3	3	2300.	1528.	324.	3952.	1528.	324.	3952.	5490.	210.	0.	0.	.72	55.	24.0	C	14.0	2.4
4	3	1020.	0.	0.	3628.	0.	0.	3628.	5700.	0.	0.	0.	.64	62.	19.5	C	19.9	4.8
5	3	710.	168.	0.	3796.	168.	0.	3796.	5700.	0.	0.	0.	.67	62.	20.4	C	16.1	4.4
6	3	3820.	360.	896.	4156.	360.	896.	4156.	6150.	0.	0.	0.	.68	62.	22.3	C	17.1	4.8
7	2	1220.	0.	0.	3260.	0.	0.	3260.	4400.	0.	0.	0.	.74	62.	26.4	D	18.3	4.2
8	3	4810.	636.	832.	3896.	636.	832.	3896.	6100.	0.	0.	0.	.64	62.	20.9	C	20.6	4.4
9	2	1370.	0.	0.	3064.	0.	0.	3064.	4000.	0.	0.	0.	.77	62.	24.7	C	23.6	4.4
10	2	660.	248.	0.	3312.	248.	0.	3312.	4380.	20.	0.	0.	.76	62.	26.9	D	23.8	4.1
11	3	790.	724.	720.	4036.	724.	720.	4036.	5484.	616.	0.	0.	.74	62.	21.7	C	30.0	4.4
12	2	1460.	0.	0.	3316.	0.	0.	3316.	4100.	0.	0.	0.	.81	61.	27.3	D	21.2	3.7
13	3	1400.	424.	0.	3740.	424.	0.	3740.	6036.	64.	0.	0.	.62	62.	20.1	C	13.6	4.4
14	3	2600.	0.	572.	3740.	0.	572.	3740.	6036.	64.	0.	0.	.62	62.	20.1	C	20.6	4.4
15	2	2010.	0.	0.	3168.	0.	0.	3168.	3900.	0.	0.	0.	.81	61.	26.1	D	15.1	3.6
16	3	6120.	376.	900.	3544.	376.	900.	3544.	6100.	0.	0.	0.	.58	62.	19.1	C	18.2	4.4
17	2	1240.	0.	0.	2644.	0.	0.	2644.	4300.	0.	0.	0.	.61	62.	21.3	C	18.2	4.4
18	2	930.	308.	0.	2952.	308.	0.	2952.	4100.	0.	0.	0.	.72	62.	23.8	C	20.6	4.4
19	2	5330.	128.	480.	3080.	128.	480.	3080.	3950.	0.	0.	0.	.78	61.	25.1	C	20.9	4.0
20	2	2830.	0.	0.	2600.	0.	0.	2600.	3800.	0.	0.	0.	.68	61.	21.3	C	21.1	3.8
21	2	1660.	336.	448.	2936.	336.	448.	2936.	4300.	0.	0.	0.	.68	61.	24.1	C	21.1	3.8
22	2	2270.	0.	0.	2488.	0.	0.	2488.	4400.	0.	0.	0.	.57	62.	20.1	C	20.6	4.4
23	2	3040.	96.	360.	2584.	96.	360.	2584.	4100.	0.	0.	0.	.63	62.	20.8	C	20.6	4.4
24	2	2190.	0.	0.	2224.	0.	0.	2224.	4200.	0.	0.	0.	.53	65.	17.1	B	19.2	6.1
25	3	2400.	72.	2296.	2296.	72.	2296.	2296.	6150.	0.	0.	0.	.37	65.	11.8	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 61.	21.6		18.7	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 23 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	158. PASS-HRS	2902. VEH-HRS	3367. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	137. VEH-HRS	158. PASS-HRS	2902. VEH-HRS	3367. PASS-HRS
TOTAL TRAV DISTANCE =	8334. VEH-MI.	9667. PASS-MI.	177033. VEH-MI.	205358. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		20. VPMPL	
TOTAL FUEL =	445. GALLONS		9398. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		745. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1928.	0.	1928.	1928.	0.	1928.	3850.	0.	0.	0.	.50	50.	19.3	C	17.4	2.3
2	2	2070.	604.	0.	2532.	604.	0.	2532.	3839.	11.	0.	0.	.66	50.	25.3	C	15.9	2.3
3	3	2300.	1652.	364.	4184.	1652.	364.	4184.	5466.	234.	0.	0.	.77	55.	25.4	C	14.0	2.4
4	3	1020.	0.	0.	3820.	0.	0.	3820.	5700.	0.	0.	0.	.67	62.	20.5	C	19.9	4.8
5	3	710.	208.	0.	4028.	208.	0.	4028.	5700.	0.	0.	0.	.71	62.	21.7	C	16.1	4.4
6	3	3820.	400.	948.	4428.	400.	948.	4428.	6134.	16.	0.	0.	.72	62.	23.8	C	17.1	4.8
7	2	1220.	0.	0.	3480.	0.	0.	3480.	4400.	0.	0.	0.	.79	61.	28.4	D	18.5	3.9
8	3	4810.	588.	908.	4068.	588.	908.	4068.	6100.	0.	0.	0.	.67	62.	21.9	C	20.6	4.4
9	2	1370.	0.	0.	3160.	0.	0.	3160.	4000.	0.	0.	0.	.79	61.	25.8	C	24.1	3.9
10	2	660.	244.	0.	3404.	244.	0.	3404.	4378.	22.	0.	0.	.78	61.	27.7	D	23.9	4.0
11	3	790.	752.	820.	4156.	752.	820.	4156.	5470.	630.	0.	0.	.76	62.	22.3	C	30.0	4.4
12	2	1460.	0.	0.	3336.	0.	0.	3336.	4100.	0.	0.	0.	.81	61.	27.5	D	21.2	3.6
13	3	1400.	448.	0.	3784.	448.	0.	3784.	6016.	84.	0.	0.	.63	62.	20.3	C	13.6	4.4
14	3	2600.	0.	704.	3784.	0.	704.	3784.	6016.	84.	0.	0.	.63	62.	20.3	C	20.6	4.4
15	2	2010.	0.	0.	3080.	0.	0.	3080.	3900.	0.	0.	0.	.79	61.	25.2	C	14.9	3.9
16	3	6120.	260.	664.	3340.	260.	664.	3340.	6100.	0.	0.	0.	.55	62.	18.0	B	18.2	4.4
17	2	1240.	0.	0.	2676.	0.	0.	2676.	4300.	0.	0.	0.	.62	62.	21.6	C	18.2	4.4
18	2	930.	264.	0.	2940.	264.	0.	2940.	4100.	0.	0.	0.	.72	62.	23.7	C	20.6	4.4
19	2	5330.	136.	516.	3076.	136.	516.	3076.	3950.	0.	0.	0.	.78	62.	24.8	C	20.6	4.4
20	2	2830.	0.	0.	2560.	0.	0.	2560.	3800.	0.	0.	0.	.67	61.	21.0	C	21.1	3.8
21	2	1660.	312.	412.	2872.	312.	412.	2872.	4300.	0.	0.	0.	.67	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	2460.	0.	0.	2460.	4400.	0.	0.	0.	.56	62.	19.8	C	20.6	4.4
23	2	3040.	96.	336.	2556.	96.	336.	2556.	4100.	0.	0.	0.	.62	62.	20.6	C	20.6	4.4
24	2	2190.	0.	0.	2220.	0.	0.	2220.	4200.	0.	0.	0.	.53	65.	17.1	B	19.2	6.1
25	3	2400.	120.	2340.	2340.	120.	2340.	2340.	6150.	0.	0.	0.	.38	65.	12.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 61.	21.8		18.7	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 24 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	138. VEH-HRS	160. PASS-HRS	3041. VEH-HRS	3527. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	138. VEH-HRS	160. PASS-HRS	3041. VEH-HRS	3527. PASS-HRS
TOTAL TRAV DISTANCE =	8433. VEH-MI.	9782. PASS-MI.	185466. VEH-MI.	215140. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		20. VPMPL	
TOTAL FUEL =	451. GALLONS		9849. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		781. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	64.	74.	0.	0.	64.	74.	3935.	4564.	61.5	208.	1.	13.	3.	14:00
2	79.	92.	0.	0.	79.	92.	4875.	5655.	61.4	259.	1.	16.	4.	14:15
3	115.	133.	0.	0.	115.	133.	7036.	8161.	61.4	373.	1.	24.	6.	14:30
4	139.	161.	0.	0.	139.	161.	8426.	9774.	60.7	443.	1.	26.	7.	14:45
5	103.	120.	0.	0.	103.	120.	6351.	7367.	61.5	336.	1.	21.	6.	15:00
6	133.	155.	0.	0.	133.	155.	8125.	9425.	60.9	427.	1.	25.	7.	15:15
7	149.	172.	0.	0.	149.	172.	8977.	10413.	60.4	467.	1.	26.	8.	15:30
8	155.	180.	0.	0.	155.	180.	9328.	10821.	60.0	484.	1.	26.	8.	15:45
9	151.	175.	0.	0.	151.	175.	9181.	10650.	60.7	486.	1.	28.	8.	16:00
10	120.	139.	0.	0.	120.	139.	7342.	8517.	61.4	392.	1.	24.	7.	16:15
11	139.	162.	0.	0.	139.	162.	8529.	9893.	61.2	455.	1.	28.	8.	16:30
12	117.	136.	0.	0.	117.	136.	7181.	8330.	61.2	385.	1.	23.	6.	16:45
13	136.	158.	0.	0.	136.	158.	8304.	9632.	60.9	442.	1.	26.	7.	17:00
14	122.	141.	0.	0.	122.	141.	7420.	8607.	61.1	397.	1.	24.	7.	17:15
15	118.	137.	0.	0.	118.	137.	7233.	8390.	61.2	387.	1.	24.	6.	17:30
16	123.	143.	0.	0.	123.	143.	7522.	8725.	61.2	403.	1.	25.	7.	17:45
17	121.	140.	0.	0.	121.	140.	7392.	8575.	61.1	397.	1.	24.	7.	18:00
18	134.	155.	0.	0.	134.	155.	8172.	9480.	61.2	437.	1.	27.	7.	18:15
19	126.	147.	0.	0.	126.	147.	7726.	8962.	61.1	414.	1.	25.	7.	18:30
20	146.	169.	0.	0.	146.	169.	8876.	10296.	60.8	472.	1.	27.	8.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	140.	162.	0.	0.	140.	162.	8516.	9878.	61.0	452.	1.	27.	8.	19:00
22	135.	157.	0.	0.	135.	157.	8253.	9574.	61.0	439.	1.	26.	7.	19:15
23	137.	158.	0.	0.	137.	158.	8334.	9667.	61.1	445.	1.	27.	7.	19:30
24	138.	160.	0.	0.	138.	160.	8433.	9782.	61.1	451.	1.	27.	8.	19:45
TOTAL	3041.	3527.	0.	0.	3041.	3527.	185466.	215140.	61.0	9849.	27.	590.	164.	

Existing (2019) plus Interim Build
(Aux Lanes Only)
Southbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2156.	0.	2156.	2156.	0.	2156.	3850.	0.	0.	0.	.56	50.	21.6	C	17.4	2.3
2	2	2070.	628.	0.	2784.	628.	0.	2784.	3835.	15.	0.	0.	.73	50.	27.8	D	15.9	2.3
3	3	2300.	1688.	332.	4472.	1688.	332.	4472.	5876.	224.	0.	0.	.76	55.	27.1	D	14.0	2.4
4	3	1020.	0.	0.	4140.	0.	0.	4140.	6100.	0.	0.	0.	.68	62.	22.3	C	19.9	4.8
5	3	710.	188.	0.	4328.	188.	0.	4328.	6100.	0.	0.	0.	.71	62.	23.3	C	16.1	4.4
6	3	3820.	396.	1060.	4724.	396.	1060.	4724.	6104.	46.	0.	0.	.77	61.	25.6	C	17.4	4.5
7	2	1220.	0.	0.	3664.	0.	0.	3664.	4400.	0.	0.	0.	.83	60.	30.4	D	18.9	3.3
8	3	4810.	592.	716.	4256.	592.	716.	4256.	6100.	0.	0.	0.	.70	62.	22.9	C	20.6	4.4
9	2	1370.	0.	0.	3540.	0.	0.	3540.	4000.	0.	0.	0.	.88	58.	30.3	D	25.4	2.8
10	2	660.	300.	0.	3840.	300.	0.	3840.	4375.	25.	0.	0.	.88	59.	32.7	D	25.3	2.9
11	3	790.	792.	876.	4632.	792.	876.	4632.	5425.	675.	0.	0.	.85	60.	25.9	C	31.9	3.1
12	2	1460.	0.	0.	3756.	0.	0.	3756.	4100.	0.	0.	0.	.92	57.	32.9	D	22.5	2.5
13	3	1400.	536.	0.	4292.	536.	0.	4292.	6024.	76.	0.	0.	.71	62.	23.1	C	13.6	4.4
14	3	2600.	0.	612.	4292.	0.	612.	4292.	6024.	76.	0.	0.	.71	62.	23.1	C	20.6	4.4
15	2	2010.	0.	0.	3680.	0.	0.	3680.	3900.	0.	0.	0.	.94	56.	33.1	D	16.3	2.1
16	3	6120.	432.	680.	4112.	432.	680.	4112.	6100.	0.	0.	0.	.67	62.	22.1	C	18.2	4.4
17	2	1240.	0.	0.	3432.	0.	0.	3314.	4300.	0. *	819.	118.	.77	39.	42.1	F	17.5	4.0
18	2	930.	520.	0.	3952.	520.	0.	3834.	4100.	0. **	930.	118.	.94	33.	57.9	F	22.0	2.7
19	2	5330.	116.	556.	4068.	116.	540.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3512.	0.	0.	3410.	3800.	0.	0.	0.	.90	57.	29.7	D	22.4	2.6
21	2	1660.	456.	568.	3968.	456.	553.	3866.	4124.	176.	0.	0.	.94	55.	34.8	D	23.0	2.1
22	2	2270.	0.	0.	3400.	0.	0.	3313.	4400.	0.	0.	0.	.75	62.	26.9	D	20.7	4.2
23	2	3040.	132.	356.	3532.	132.	347.	3445.	4100.	0.	0.	0.	.84	60.	28.7	D	21.6	3.2
24	2	2190.	0.	0.	3176.	0.	0.	3098.	4200.	0.	0.	0.	.74	64.	24.1	C	19.5	5.7
25	3	2400.	120.	3296.	3296.	120.	3218.	3218.	6150.	0.	0.	0.	.52	65.	16.5	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 57.	27.4		19.2	3.6

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 1 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	185. VEH-HRS	219. PASS-HRS	185. VEH-HRS	219. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	185. VEH-HRS	219. PASS-HRS	185. VEH-HRS	219. PASS-HRS
TOTAL TRAV DISTANCE =	10587. VEH-MI.	12493. PASS-MI.	10587. VEH-MI.	12493. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		57. MPH.	
AVERAGE DENSITY =	27. VPMPL		27. VPMPL	
TOTAL FUEL =	551. GALLONS		551. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		38. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2832.	0.	2832.	2832.	0.	2832.	3850.	0.	0.	0.	.74	50.	28.3	D	17.4	2.3
2	2	2070.	564.	0.	3396.	564.	0.	3396.	3830.	20.	0.	0.	.89	50.	34.0	D	15.9	2.3
3	3	2300.	1516.	372.	4912.	1516.	372.	4912.	5822.	278.	0.	0.	.84	55.	29.8	D	14.0	2.4
4	3	1020.	0.	0.	4540.	0.	0.	4540.	6100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
5	3	710.	144.	0.	4684.	144.	0.	4684.	6100.	0.	0.	0.	.77	62.	25.4	C	16.3	4.1
6	3	3820.	324.	1248.	5008.	324.	1248.	5008.	6065.	85.	0.	0.	.83	60.	27.6	D	17.8	3.9
7	2	1220.	0.	0.	3760.	0.	0.	3760.	4400.	0.	0.	0.	.85	60.	31.5	D	19.2	3.1
8	3	4810.	632.	728.	4392.	632.	728.	4392.	6100.	0.	0.	0.	.72	62.	23.6	C	20.6	4.4
9	2	1370.	0.	0.	3664.	0.	0.	3664.	4000.	0.	0.	0.	.92	57.	32.1	D	26.1	2.5
10	2	660.	292.	0.	3956.	292.	0.	3956.	4376.	24.	0.	0.	.90	58.	34.3	D	25.8	2.6
11	3	790.	936.	892.	4892.	936.	892.	4892.	5352.	748.	0.	0.	.91	57.	28.5	D	33.7	2.5
12	2	1460.	0.	0.	4000.	0.	0.	4000.	4100.	0.	0.	0.	.98	53.	37.4	E	23.5	2.0
13	3	1400.	500.	0.	4500.	500.	0.	4500.	6032.	68.	0.	0.	.75	62.	24.2	C	13.6	4.4
14	3	2600.	0.	608.	4500.	0.	608.	4500.	6032.	68.	0.	0.	.75	62.	24.2	C	20.6	4.4
15	2	2010.	0.	0.	3892.	0.	0.	3892.	3900.	0.	0.	0.	.99	52.	37.6	E	16.9	2.0
16	3	6120.	448.	692.	4340.	448.	692.	4006.	6100.	0.	* 1528.	334.	.66	44.	30.4	F	17.4	4.5
17	2	1240.	0.	0.	3648.	0.	0.	3314.	4300.	0.	** 1240.	334.	.77	18.	92.5	F	14.7	4.7
18	2	930.	492.	0.	4140.	492.	0.	3806.	4100.	0.	** 930.	294.	.93	30.	63.3	F	21.6	2.9
19	2	5330.	144.	596.	4284.	144.	550.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3688.	0.	0.	3400.	3800.	0.	0.	0.	.89	58.	29.5	D	22.3	2.6
21	2	1660.	500.	636.	4188.	500.	592.	3900.	4046.	254.	0.	0.	.96	54.	36.2	E	23.4	2.0
22	2	2270.	0.	0.	3552.	0.	0.	3308.	4400.	0.	0.	0.	.75	62.	26.8	D	20.7	4.2
23	2	3040.	92.	432.	3644.	92.	403.	3400.	4100.	0.	0.	0.	.83	60.	28.2	D	21.4	3.4
24	2	2190.	0.	0.	3212.	0.	0.	2997.	4200.	0.	0.	0.	.71	65.	23.2	C	19.3	5.9
25	3	2400.	96.	3308.	3308.	96.	3093.	3093.	6150.	0.	0.	0.	.50	65.	15.9	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 53. 31.0 19.1 3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	212. VEH-HRS	250. PASS-HRS	397. VEH-HRS	469. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	212. VEH-HRS	250. PASS-HRS	397. VEH-HRS	469. PASS-HRS
TOTAL TRAV DISTANCE =	11132. VEH-MI.	13136. PASS-MI.	21719. VEH-MI.	25628. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		55. MPH.	
AVERAGE DENSITY =	31. VPMPL		29. VPMPL	
TOTAL FUEL =	584. GALLONS		1135. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		76. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2252.	0.	2252.	2252.	0.	2252.	3850.	0.	0.	0.	.58	50.	22.5	C	17.4	2.3
2	2	2070.	540.	0.	2792.	540.	0.	2792.	3834.	16.	0.	0.	.73	50.	27.9	D	15.9	2.3
3	3	2300.	1780.	400.	4572.	1780.	400.	4572.	5838.	262.	0.	0.	.78	55.	27.7	D	14.0	2.4
4	3	1020.	0.	0.	4172.	0.	0.	4172.	6100.	0.	0.	0.	.68	62.	22.4	C	19.9	4.8
5	3	710.	148.	0.	4320.	148.	0.	4320.	6100.	0.	0.	0.	.71	62.	23.2	C	16.1	4.4
6	3	3820.	324.	1048.	4644.	324.	1048.	4644.	6125.	25.	0.	0.	.76	62.	25.1	C	17.3	4.6
7	2	1220.	0.	0.	3596.	0.	0.	3596.	4400.	0.	0.	0.	.82	61.	29.7	D	18.8	3.6
8	3	4810.	576.	716.	4172.	576.	716.	4172.	6100.	0.	0.	0.	.68	62.	22.4	C	20.6	4.4
9	2	1370.	0.	0.	3456.	0.	0.	3456.	4000.	0.	0.	0.	.86	59.	29.1	D	25.1	3.0
10	2	660.	372.	0.	3828.	372.	0.	3828.	4369.	31.	0.	0.	.88	59.	32.5	D	25.3	2.9
11	3	790.	960.	884.	4788.	960.	884.	4788.	5355.	745.	0.	0.	.89	58.	27.5	D	33.0	2.7
12	2	1460.	0.	0.	3904.	0.	0.	3904.	4100.	0.	0.	0.	.95	55.	35.5	E	23.2	2.0
13	3	1400.	560.	0.	4464.	560.	0.	4464.	6012.	88.	0.	0.	.74	62.	24.0	C	13.6	4.4
14	3	2600.	0.	700.	4464.	0.	700.	4464.	6012.	88.	0.	0.	.74	62.	24.0	C	20.6	4.4
15	2	2010.	0.	0.	3764.	0.	0.	3764.	3900.	0.	0.	0.	.97	54.	34.8	D	16.6	2.0
16	3	6120.	516.	724.	4280.	516.	724.	3994.	6100.	0.	* 3005.	286.	.65	26.	52.2	F	15.7	4.9
17	2	1240.	0.	0.	3556.	0.	0.	3270.	4300.	0.	** 1240.	286.	.76	17.	95.8	F	14.5	4.8
18	2	930.	516.	0.	4072.	516.	0.	3786.	4100.	0.	** 930.	286.	.92	30.	64.1	F	21.4	3.0
19	2	5330.	164.	560.	4236.	164.	522.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3676.	0.	0.	3428.	3800.	0.	0.	0.	.90	57.	29.9	D	22.4	2.5
21	2	1660.	480.	656.	4156.	480.	617.	3908.	4058.	242.	0.	0.	.96	54.	36.2	E	23.4	2.0
22	2	2270.	0.	0.	3500.	0.	0.	3291.	4400.	0.	0.	0.	.75	62.	26.7	D	20.7	4.2
23	2	3040.	100.	388.	3600.	100.	366.	3391.	4100.	0.	0.	0.	.83	60.	28.1	D	21.4	3.4
24	2	2190.	0.	0.	3212.	0.	0.	3025.	4200.	0.	0.	0.	.72	65.	23.4	C	19.4	5.9
25	3	2400.	88.	3300.	3300.	88.	3113.	3113.	6150.	0.	0.	0.	.51	65.	16.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 48.	31.8		18.8	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	221. VEH-HRS	261. PASS-HRS	619. VEH-HRS	730. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	221. VEH-HRS	261. PASS-HRS	619. VEH-HRS	730. PASS-HRS
TOTAL TRAV DISTANCE =	10625. VEH-MI.	12538. PASS-MI.	32344. VEH-MI.	38166. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		52. MPH.	
AVERAGE DENSITY =	32. VPMPL		30. VPMPL	
TOTAL FUEL =	566. GALLONS		1701. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		115. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2824.	0.	2824.	2824.	0.	2824.	3850.	0.	0.	0.	.73	50.	28.2	D	17.4	2.3
2	2	2070.	464.	0.	3288.	464.	0.	3288.	3836.	14.	0.	0.	.86	50.	32.9	D	15.9	2.3
3	3	2300.	1644.	356.	4932.	1644.	356.	4932.	5848.	252.	0.	0.	.84	55.	29.9	D	14.0	2.4
4	3	1020.	0.	0.	4576.	0.	0.	4576.	6100.	0.	0.	0.	.75	62.	24.6	C	19.9	4.8
5	3	710.	140.	0.	4716.	140.	0.	4716.	6100.	0.	0.	0.	.77	61.	25.6	C	16.3	4.0
6	3	3820.	272.	1112.	4988.	272.	1112.	4988.	6118.	32.	0.	0.	.82	61.	27.4	D	17.6	4.0
7	2	1220.	0.	0.	3876.	0.	0.	3876.	4400.	0.	0.	0.	.88	59.	33.0	D	19.4	2.9
8	3	4810.	548.	804.	4424.	548.	804.	4424.	6100.	0.	0.	0.	.73	62.	23.8	C	20.6	4.4
9	2	1370.	0.	0.	3620.	0.	0.	3620.	4000.	0.	0.	0.	.90	58.	31.4	D	25.8	2.6
10	2	660.	280.	0.	3900.	280.	0.	3900.	4376.	24.	0.	0.	.89	58.	33.5	D	25.6	2.8
11	3	790.	1000.	924.	4900.	1000.	924.	4900.	5336.	764.	0.	0.	.92	57.	28.7	D	33.9	2.4
12	2	1460.	0.	0.	3976.	0.	0.	3976.	4100.	0.	0.	0.	.97	54.	36.9	E	23.4	2.0
13	3	1400.	596.	0.	4572.	596.	0.	4572.	6020.	80.	0.	0.	.76	62.	24.6	C	13.6	4.4
14	3	2600.	0.	628.	4572.	0.	628.	4528.	6020.	80.	* 292.	44.	.75	54.	28.0	F	20.3	4.4
15	2	2010.	0.	0.	3944.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	612.	656.	4556.	612.	650.	4008.	6100.	0.	* 5661.	504.	.66	17.	80.5	F	14.1	5.3
17	2	1240.	0.	0.	3900.	0.	0.	3358.	4300.	0.	** 1240.	504.	.78	18.	92.2	F	14.7	4.6
18	2	930.	456.	0.	4356.	456.	0.	3814.	4100.	0.	** 930.	286.	.93	30.	62.9	F	21.6	2.9
19	2	5330.	136.	556.	4492.	136.	489.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3936.	0.	0.	3461.	3800.	0.	M 57.	0.	.91	57.	30.4	D	22.6	2.4
21	2	1660.	516.	708.	4452.	516.	631.	3968.	3995.	305.	0.	0.	.99	52.	38.3	E	23.9	2.0
22	2	2270.	0.	0.	3744.	0.	0.	3337.	4400.	0.	0.	0.	.76	62.	27.1	D	20.8	4.1
23	2	3040.	340.	400.	4084.	340.	360.	3677.	4100.	0.	0.	0.	.90	58.	31.7	D	22.2	2.7
24	2	2190.	0.	0.	3684.	0.	0.	3317.	4200.	0.	0.	0.	.79	63.	26.2	D	19.9	5.2
25	3	2400.	120.	3804.	3804.	120.	3437.	3437.	6150.	0.	0.	0.	.56	65.	17.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 43.	36.6	18.6	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	260. VEH-HRS	307. PASS-HRS	878. VEH-HRS	1037. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	260. VEH-HRS	307. PASS-HRS	879. VEH-HRS	1037. PASS-HRS
TOTAL TRAV DISTANCE =	11231. VEH-MI.	13252. PASS-MI.	43575. VEH-MI.	51418. PASS-MI.
AVERAGE SYSTEM SPEED =	43. MPH.		50. MPH.	
AVERAGE DENSITY =	37. VPMPL		32. VPMPL	
TOTAL FUEL =	604. GALLONS		2305. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		155. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 13	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	2.	0.28	0.10	0.00	0.01	0.00	0.01
	TOTAL	2.	0.28	0.10	0.00	0.01	0.00	0.01

QUEUE COLLISION IN SECTION 15 T2 =0.232

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2320.	0.	2320.	2320.	0.	2320.	3850.	0.	0.	0.	.60	50.	23.2	C	17.4	2.3
2	2	2070.	452.	0.	2772.	452.	0.	2772.	3833.	17.	0.	0.	.72	50.	27.7	D	15.9	2.3
3	3	2300.	1460.	496.	4232.	1460.	496.	4232.	5757.	343.	0.	0.	.74	55.	25.6	C	14.0	2.4
4	3	1020.	0.	0.	3736.	0.	0.	3736.	6100.	0.	0.	0.	.61	62.	20.1	C	19.9	4.8
5	3	710.	80.	0.	3816.	80.	0.	3816.	6100.	0.	0.	0.	.63	62.	20.5	C	16.1	4.4
6	3	3820.	284.	1104.	4100.	284.	1104.	4100.	6129.	21.	0.	0.	.67	62.	22.0	C	17.1	4.8
7	2	1220.	0.	0.	2996.	0.	0.	2996.	4400.	0.	0.	0.	.68	62.	24.2	C	18.2	4.4
8	3	4810.	508.	752.	3504.	508.	752.	3504.	6100.	0.	0.	0.	.57	62.	18.8	C	20.6	4.4
9	2	1370.	0.	0.	2752.	0.	0.	2752.	4000.	0.	0.	0.	.69	62.	22.2	C	23.6	4.4
10	2	660.	348.	0.	3100.	348.	0.	3100.	4371.	29.	0.	0.	.71	62.	25.0	C	23.6	4.3
11	3	790.	1088.	776.	4188.	1088.	776.	4188.	5489.	611.	0.	0.	.76	62.	22.5	C	30.0	4.4
12	2	1460.	0.	0.	3412.	0.	0.	3412.	4100.	0.	0.	0.	.83	60.	28.3	D	21.5	3.3
13	3	1400.	564.	0.	3976.	564.	0.	3976.	6044.	56.	0.	0.	.66	62.	21.4	C	13.6	4.4
14	3	2600.	0.	396.	3976.	0.	396.	3763.	6044.	56.	* 75.	213.	.62	51.	24.5	F	20.1	4.4
15	2	2010.	0.	0.	3580.	0.	0.	3425.	3900.	0.	** 2010.	213.	.88	40.	42.4	F	15.4	2.6
16	3	6120.	580.	520.	4160.	580.	527.	4005.	6100.	0.	** 6120.	213.	.66	13.	106.5	F	12.8	5.8
17	2	1240.	0.	0.	3640.	0.	0.	3478.	4300.	0.	** 1240.	213.	.81	20.	87.3	F	15.2	4.2
18	2	930.	364.	0.	4004.	364.	0.	3842.	4100.	0.	** 930.	213.	.94	31.	61.8	F	21.8	2.8
19	2	5330.	108.	492.	4112.	108.	473.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3620.	0.	0.	3477.	3800.	0.	0.	0.	.92	57.	30.7	D	22.6	2.4
21	2	1660.	500.	668.	4120.	500.	646.	3987.	4027.	273.	0.	0.	.99	52.	38.3	E	23.8	2.0
22	2	2270.	0.	0.	3452.	0.	0.	3340.	4400.	0.	0.	0.	.76	62.	27.1	D	20.8	4.1
23	2	3040.	276.	396.	3728.	276.	384.	3616.	4100.	0.	0.	0.	.88	59.	30.9	D	22.0	2.9
24	2	2190.	0.	0.	3332.	0.	0.	3232.	4200.	0.	0.	0.	.77	64.	25.3	C	19.7	5.4
25	3	2400.	148.	3480.	3480.	148.	3380.	3380.	6150.	0.	0.	0.	.55	65.	17.3	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 39. 36.5 18.1 3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	261. VEH-HRS	308. PASS-HRS	1140. VEH-HRS	1345. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	261. VEH-HRS	308. PASS-HRS	1140. VEH-HRS	1345. PASS-HRS
TOTAL TRAV DISTANCE =	10117. VEH-MI.	11938. PASS-MI.	53692. VEH-MI.	63356. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		47. MPH.	
AVERAGE DENSITY =	37. VPMPL		33. VPMPL	
TOTAL FUEL =	558. GALLONS		2863. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		193. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2412.	0.	2412.	2412.	0.	2412.	3850.	0.	0.	0.	.63	50.	24.1	C	17.4	2.3
2	2	2070.	396.	0.	2808.	396.	0.	2808.	3836.	14.	0.	0.	.73	50.	28.1	D	15.9	2.3
3	3	2300.	1412.	432.	4220.	1412.	432.	4220.	5796.	304.	0.	0.	.73	55.	25.6	C	14.0	2.4
4	3	1020.	0.	0.	3788.	0.	0.	3788.	6100.	0.	0.	0.	.62	62.	20.4	C	19.9	4.8
5	3	710.	80.	0.	3868.	80.	0.	3868.	6100.	0.	0.	0.	.63	62.	20.8	C	16.1	4.4
6	3	3820.	224.	1112.	4092.	224.	1112.	4092.	6134.	16.	0.	0.	.67	62.	22.0	C	17.1	4.8
7	2	1220.	0.	0.	2980.	0.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	18.2	4.4
8	3	4810.	536.	712.	3516.	536.	712.	3516.	6100.	0.	0.	0.	.58	62.	18.9	C	20.6	4.4
9	2	1370.	0.	0.	2804.	0.	0.	2804.	4000.	0.	0.	0.	.70	62.	22.6	C	23.6	4.4
10	2	660.	332.	0.	3136.	332.	0.	3136.	4373.	27.	0.	0.	.72	62.	25.3	C	23.6	4.3
11	3	790.	1036.	732.	4172.	1036.	732.	4172.	5515.	585.	0.	0.	.76	62.	22.4	C	30.0	4.4
12	2	1460.	0.	0.	3440.	0.	0.	3440.	4100.	0.	0.	0.	.84	60.	28.6	D	21.6	3.2
13	3	1400.	584.	0.	4024.	584.	0.	4024.	6048.	52.	0.	0.	.67	62.	21.6	C	13.6	4.4
14	3	2600.	0.	356.	4024.	0.	356.	3790.	6048.	52.	* 1216.	234.	.63	30.	42.1	F	18.4	4.8
15	2	2010.	0.	0.	3668.	0.	0.	3434.	3900.	0.	** 2010.	234.	.88	25.	67.8	F	14.1	3.4
16	3	6120.	512.	476.	4180.	512.	476.	3946.	6100.	0.	** 6120.	234.	.65	12.	109.5	F	12.6	5.9
17	2	1240.	0.	0.	3704.	0.	0.	3470.	4300.	0.	** 1240.	234.	.81	20.	87.7	F	15.2	4.2
18	2	930.	364.	0.	4068.	364.	0.	3834.	4100.	0.	** 930.	234.	.94	31.	62.1	F	21.7	2.8
19	2	5330.	116.	456.	4184.	116.	430.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3728.	0.	0.	3520.	3800.	0.	0.	0.	.93	56.	31.4	D	22.8	2.3
21	2	1660.	516.	596.	4244.	516.	567.	4036.	4056.	244.	0.	0.	.99	52.	39.0	E	23.9	2.0
22	2	2270.	0.	0.	3648.	0.	0.	3469.	4400.	0.	0.	0.	.79	61.	28.3	D	21.0	3.9
23	2	3040.	148.	380.	3796.	148.	362.	3617.	4100.	0.	0.	0.	.88	59.	30.9	D	22.0	2.8
24	2	2190.	0.	0.	3416.	0.	0.	3255.	4200.	0.	0.	0.	.77	64.	25.5	C	19.7	5.4
25	3	2400.	136.	3552.	3552.	136.	3391.	3391.	6150.	0.	0.	0.	.55	65.	17.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 37.	38.7		18.0	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	276. VEH-HRS	326. PASS-HRS	1416. VEH-HRS	1671. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	276. VEH-HRS	326. PASS-HRS	1416. VEH-HRS	1671. PASS-HRS
TOTAL TRAV DISTANCE =	10154. VEH-MI.	11981. PASS-MI.	63845. VEH-MI.	75337. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		45. MPH.	
AVERAGE DENSITY =	39. VPMPL		34. VPMPL	
TOTAL FUEL =	565. GALLONS		3428. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		232. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2180.	0.	2180.	2180.	0.	2180.	3850.	0.	0.	0.	.57	50.	21.8	C	17.4	2.3
2	2	2070.	444.	0.	2624.	444.	0.	2624.	3835.	15.	0.	0.	.68	50.	26.2	D	15.9	2.3
3	3	2300.	1660.	496.	4284.	1660.	496.	4284.	5778.	322.	0.	0.	.74	55.	26.0	C	14.0	2.4
4	3	1020.	0.	0.	3788.	0.	0.	3788.	6100.	0.	0.	0.	.62	62.	20.4	C	19.9	4.8
5	3	710.	64.	0.	3852.	64.	0.	3852.	6100.	0.	0.	0.	.63	62.	20.7	C	16.1	4.4
6	3	3820.	232.	1172.	4084.	232.	1172.	4084.	6125.	25.	0.	0.	.67	62.	22.0	C	17.1	4.8
7	2	1220.	0.	0.	2912.	0.	0.	2912.	4400.	0.	0.	0.	.66	62.	23.5	C	18.2	4.4
8	3	4810.	560.	756.	3472.	560.	756.	3472.	6100.	0.	0.	0.	.57	62.	18.7	C	20.6	4.4
9	2	1370.	0.	0.	2716.	0.	0.	2716.	4000.	0.	0.	0.	.68	62.	21.9	C	23.6	4.4
10	2	660.	324.	0.	3040.	324.	0.	3040.	4373.	27.	0.	0.	.70	62.	24.5	C	23.6	4.4
11	3	790.	1072.	764.	4112.	1072.	764.	4112.	5503.	597.	0.	0.	.75	62.	22.1	C	30.0	4.4
12	2	1460.	0.	0.	3348.	0.	0.	3348.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
13	3	1400.	596.	0.	3944.	596.	0.	3944.	6048.	52.	0.	0.	.65	62.	21.2	C	13.6	4.4
14	3	2600.	0.	348.	3944.	0.	348.	3758.	6048.	52.	* 2109.	186.	.62	16.	78.4	F	15.7	5.4
15	2	2010.	0.	0.	3596.	0.	0.	3410.	3900.	0.	** 2010.	186.	.87	25.	68.8	F	14.0	3.5
16	3	6120.	488.	492.	4084.	488.	492.	3898.	6100.	0.	** 6120.	186.	.64	12.	110.8	F	12.4	5.9
17	2	1240.	0.	0.	3592.	0.	0.	3406.	4300.	0.	** 1240.	186.	.79	19.	90.3	F	14.9	4.4
18	2	930.	416.	0.	4008.	416.	0.	3822.	4100.	0.	** 930.	186.	.93	31.	62.6	F	21.7	2.9
19	2	5330.	128.	488.	4136.	128.	466.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3648.	0.	0.	3484.	3800.	0.	0.	0.	.92	57.	30.8	D	22.6	2.4
21	2	1660.	500.	628.	4148.	500.	603.	3984.	4046.	254.	0.	0.	.98	52.	38.0	E	23.7	2.0
22	2	2270.	0.	0.	3520.	0.	0.	3381.	4400.	0.	0.	0.	.77	61.	27.5	D	20.8	4.1
23	2	3040.	124.	364.	3644.	124.	350.	3505.	4100.	0.	0.	0.	.85	60.	29.4	D	21.7	3.1
24	2	2190.	0.	0.	3280.	0.	0.	3155.	4200.	0.	0.	0.	.75	64.	24.6	C	19.5	5.6
25	3	2400.	112.	3392.	3392.	112.	3267.	3267.	6150.	0.	0.	0.	.53	65.	16.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 35.	39.9		17.8	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	288. VEH-HRS	339. PASS-HRS	1704. VEH-HRS	2010. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	288. VEH-HRS	339. PASS-HRS	1704. VEH-HRS	2011. PASS-HRS
TOTAL TRAV DISTANCE =	9938. VEH-MI.	11727. PASS-MI.	73783. VEH-MI.	87064. PASS-MI.
AVERAGE SYSTEM SPEED =	35. MPH.		43. MPH.	
AVERAGE DENSITY =	40. VPMPL		35. VPMPL	
TOTAL FUEL =	560. GALLONS		3988. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		271. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3188.	0.	3188.	3188.	0.	3188.	3850.	0.	0.	0.	.83	50.	31.9	D	17.4	2.3
2	2	2070.	376.	0.	3564.	376.	0.	3564.	3829.	21.	0.	0.	.93	50.	35.6	E	15.9	2.3
3	3	2300.	1268.	552.	4832.	1268.	552.	4832.	5669.	431.	0.	0.	.85	55.	29.3	D	14.0	2.4
4	3	1020.	0.	0.	4280.	0.	0.	4280.	6100.	0.	0.	0.	.70	62.	23.0	C	19.9	4.8
5	3	710.	52.	0.	4332.	52.	0.	4332.	6100.	0.	0.	0.	.71	62.	23.3	C	16.1	4.4
6	3	3820.	184.	1244.	4516.	184.	1244.	4516.	6124.	26.	0.	0.	.74	62.	24.3	C	17.1	4.8
7	2	1220.	0.	0.	3272.	0.	0.	3272.	4400.	0.	0.	0.	.74	62.	26.5	D	18.3	4.2
8	3	4810.	480.	808.	3752.	480.	808.	3752.	6100.	0.	0.	0.	.62	62.	20.2	C	20.6	4.4
9	2	1370.	0.	0.	2944.	0.	0.	2944.	4000.	0.	0.	0.	.74	62.	23.7	C	23.6	4.4
10	2	660.	328.	0.	3272.	328.	0.	3272.	4373.	27.	0.	0.	.75	62.	26.5	D	23.7	4.2
11	3	790.	1140.	800.	4412.	1140.	800.	4412.	5475.	625.	0.	0.	.81	62.	23.7	C	30.0	4.4
12	2	1460.	0.	0.	3612.	0.	0.	3130.	4100.	0.	* 1099.	482.	.76	50.	31.1	F	21.6	3.0
13	3	1400.	648.	0.	4260.	648.	0.	3778.	6036.	64.	** 1400.	482.	.63	20.	63.4	F	11.8	5.1
14	3	2600.	0.	428.	4260.	0.	428.	3778.	6036.	64.	** 2600.	482.	.63	11.	109.8	F	13.9	6.0
15	2	2010.	0.	0.	3832.	0.	0.	3350.	3900.	0.	** 2010.	482.	.86	24.	71.2	F	13.7	3.6
16	3	6120.	552.	580.	4384.	552.	580.	3902.	6100.	0.	** 6120.	482.	.64	12.	110.7	F	12.5	5.9
17	2	1240.	0.	0.	3804.	0.	0.	3322.	4300.	0.	** 1240.	482.	.77	18.	93.7	F	14.6	4.7
18	2	930.	460.	0.	4264.	460.	0.	3782.	4100.	0.	** 930.	318.	.92	29.	64.2	F	21.4	3.0
19	2	5330.	168.	604.	4432.	168.	538.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3828.	0.	0.	3412.	3800.	0.	0.	0.	.90	57.	29.7	D	22.4	2.6
21	2	1660.	484.	668.	4312.	484.	604.	3896.	4055.	245.	0.	0.	.96	54.	36.0	E	23.3	2.0
22	2	2270.	0.	0.	3644.	0.	0.	3292.	4400.	0.	0.	0.	.75	62.	26.7	D	20.7	4.2
23	2	3040.	116.	396.	3760.	116.	359.	3408.	4100.	0.	0.	0.	.83	60.	28.3	D	21.5	3.4
24	2	2190.	0.	0.	3364.	0.	0.	3049.	4200.	0.	0.	0.	.73	65.	23.6	C	19.4	5.8
25	3	2400.	136.	3500.	3500.	136.	3185.	3185.	6150.	0.	0.	0.	.52	65.	16.3	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 33. 44.2 17.5 3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	321. VEH-HRS	379. PASS-HRS	2025. VEH-HRS	2390. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	321. VEH-HRS	379. PASS-HRS	2025. VEH-HRS	2390. PASS-HRS
TOTAL TRAV DISTANCE =	10571. VEH-MI.	12473. PASS-MI.	84354. VEH-MI.	99538. PASS-MI.
AVERAGE SYSTEM SPEED =	33. MPH.		42. MPH.	
AVERAGE DENSITY =	44. VPMPL		36. VPMPL	
TOTAL FUEL =	605. GALLONS		4593. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		313. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2908.	0.	2908.	2908.	0.	2908.	3850.	0.	0.	0.	.76	50.	29.1	D	17.4	2.3
2	2	2070.	376.	0.	3284.	376.	0.	3284.	3831.	19.	0.	0.	.86	50.	32.8	D	15.9	2.3
3	3	2300.	1240.	536.	4524.	1240.	536.	4524.	5711.	389.	0.	0.	.79	55.	27.4	D	14.0	2.4
4	3	1020.	0.	0.	3988.	0.	0.	3988.	6100.	0.	0.	0.	.65	62.	21.4	C	19.9	4.8
5	3	710.	84.	0.	4072.	84.	0.	4072.	6100.	0.	0.	0.	.67	62.	21.9	C	16.1	4.4
6	3	3820.	184.	1188.	4256.	184.	1188.	4256.	6130.	20.	0.	0.	.69	62.	22.9	C	17.1	4.8
7	2	1220.	0.	0.	3068.	0.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	18.2	4.4
8	3	4810.	448.	808.	3516.	448.	808.	3516.	6100.	0.	0.	0.	.58	62.	18.9	C	20.6	4.4
9	2	1370.	0.	0.	2708.	0.	0.	2218.	4000.	0.	* 1314.	490.	.55	31.	35.4	F	20.7	4.8
10	2	660.	280.	0.	2988.	280.	0.	2498.	4378.	22.	** 660.	490.	.57	17.	73.1	F	17.6	5.4
11	3	790.	1072.	696.	4060.	1072.	696.	3570.	5562.	538.	** 790.	490.	.64	15.	80.3	F	20.7	5.5
12	2	1460.	0.	0.	3364.	0.	0.	2874.	4100.	0.	** 1460.	490.	.70	14.	100.4	F	15.7	5.4
13	3	1400.	688.	0.	4052.	688.	0.	3562.	6028.	72.	** 1400.	490.	.59	10.	117.4	F	10.1	6.3
14	3	2600.	0.	420.	4052.	0.	420.	3562.	6028.	72.	** 2600.	490.	.59	10.	117.4	F	13.2	6.3
15	2	2010.	0.	0.	3632.	0.	0.	3142.	3900.	0.	** 2010.	490.	.81	20.	79.7	F	12.9	4.2
16	3	6120.	692.	584.	4324.	692.	584.	3834.	6100.	0.	** 6120.	490.	.63	11.	112.5	F	12.3	6.0
17	2	1240.	0.	0.	3740.	0.	0.	3250.	4300.	0.	** 1240.	490.	.76	17.	96.6	F	14.4	4.9
18	2	930.	492.	0.	4232.	492.	0.	3742.	4100.	0.	** 930.	358.	.91	28.	65.9	F	21.1	3.1
19	2	5330.	208.	620.	4440.	208.	551.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3820.	0.	0.	3399.	3800.	0.	0.	0.	.89	58.	29.5	D	22.3	2.6
21	2	1660.	456.	664.	4276.	456.	599.	3855.	4070.	230.	0.	0.	.95	55.	35.1	E	23.2	2.0
22	2	2270.	0.	0.	3612.	0.	0.	3256.	4400.	0.	0.	0.	.74	62.	26.4	D	20.7	4.2
23	2	3040.	140.	364.	3752.	140.	329.	3396.	4100.	0.	0.	0.	.83	60.	28.1	D	21.4	3.4
24	2	2190.	0.	0.	3388.	0.	0.	3067.	4200.	0.	0.	0.	.73	64.	23.8	C	19.4	5.8
25	3	2400.	136.	3524.	3524.	136.	3203.	3203.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 28.	48.7		17.0	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	354. VEH-HRS	417. PASS-HRS	2379. VEH-HRS	2807. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	354. VEH-HRS	417. PASS-HRS	2379. VEH-HRS	2807. PASS-HRS
TOTAL TRAV DISTANCE =	10067. VEH-MI.	11879. PASS-MI.	94421. VEH-MI.	111417. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		40. MPH.	
AVERAGE DENSITY =	49. VPMPL		37. VPMPL	
TOTAL FUEL =	592. GALLONS		5185. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		354. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3180.	0.	3180.	3180.	0.	3180.	3850.	0.	0.	0.	.83	50.	31.8	D	17.4	2.3
2	2	2070.	324.	0.	3504.	324.	0.	3504.	3834.	16.	0.	0.	.91	50.	35.0	E	15.9	2.3
3	3	2300.	1236.	556.	4740.	1236.	556.	4740.	5669.	431.	0.	0.	.84	55.	28.7	D	14.0	2.4
4	3	1020.	0.	0.	4184.	0.	0.	4184.	6100.	0.	0.	0.	.69	62.	22.5	C	19.9	4.8
5	3	710.	68.	0.	4252.	68.	0.	4252.	6100.	0.	0.	0.	.70	62.	22.9	C	16.1	4.4
6	3	3820.	168.	1196.	4420.	168.	1196.	4420.	6132.	18.	0.	0.	.72	62.	23.8	C	17.1	4.8
7	2	1220.	0.	0.	3224.	0.	0.	3224.	4400.	0.	0.	0.	.73	62.	26.1	D	18.2	4.3
8	3	4810.	356.	808.	3580.	356.	808.	2962.	6100.	0.	* 2290.	618.	.49	25.	40.3	F	17.0	5.0
9	2	1370.	0.	0.	2772.	0.	0.	2154.	4000.	0.	** 1370.	618.	.54	9.	125.4	F	12.3	7.0
10	2	660.	276.	0.	3048.	276.	0.	2430.	4378.	22.	** 660.	618.	.56	9.	134.3	F	13.0	6.8
11	3	790.	1064.	700.	4112.	1064.	700.	3494.	5554.	546.	** 790.	618.	.63	11.	102.4	F	18.3	6.0
12	2	1460.	0.	0.	3412.	0.	0.	2794.	4100.	0.	** 1460.	618.	.68	13.	104.6	F	15.1	5.6
13	3	1400.	644.	0.	4056.	644.	0.	3438.	6032.	68.	** 1400.	618.	.57	9.	120.9	F	9.6	6.6
14	3	2600.	0.	420.	4056.	0.	420.	3438.	6032.	68.	** 2600.	618.	.57	9.	120.9	F	12.4	6.6
15	2	2010.	0.	0.	3636.	0.	0.	3018.	3900.	0.	** 2010.	618.	.77	18.	84.8	F	12.5	4.7
16	3	6120.	760.	548.	4396.	760.	548.	3778.	6100.	0.	** 6120.	618.	.62	11.	114.1	F	12.2	6.1
17	2	1240.	0.	0.	3848.	0.	0.	3230.	4300.	0.	** 1240.	618.	.75	17.	97.5	F	14.3	4.9
18	2	930.	508.	0.	4356.	508.	0.	3738.	4100.	0.	** 930.	362.	.91	28.	66.0	F	21.0	3.1
19	2	5330.	212.	624.	4568.	212.	539.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3944.	0.	0.	3411.	3800.	0.	0.	0.	.90	57.	29.7	D	22.4	2.6
21	2	1660.	436.	684.	4380.	436.	601.	3847.	4079.	221.	0.	0.	.94	55.	34.8	D	23.1	2.0
22	2	2270.	0.	0.	3696.	0.	0.	3246.	4400.	0.	0.	0.	.74	62.	26.3	D	20.7	4.2
23	2	3040.	160.	372.	3856.	160.	329.	3406.	4100.	0.	0.	0.	.83	60.	28.2	D	21.5	3.4
24	2	2190.	0.	0.	3484.	0.	0.	3077.	4200.	0.	0.	0.	.73	64.	23.9	C	19.4	5.8
25	3	2400.	124.	3608.	3608.	124.	3201.	3201.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 25. 54.6 16.5 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	398. VEH-HRS	469. PASS-HRS	2776. VEH-HRS	3276. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	398. VEH-HRS	469. PASS-HRS	2777. VEH-HRS	3276. PASS-HRS
TOTAL TRAV DISTANCE =	10126. VEH-MI.	11949. PASS-MI.	104547. VEH-MI.	123366. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		38. MPH.	
AVERAGE DENSITY =	55. VPMPL		39. VPMPL	
TOTAL FUEL =	615. GALLONS		5800. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		396. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2776.	0.	2776.	2776.	0.	2776.	3850.	0.	0.	0.	.72	50.	27.8	D	17.4	2.3
2	2	2070.	396.	0.	3172.	396.	0.	3172.	3831.	19.	0.	0.	.83	50.	31.7	D	15.9	2.3
3	3	2300.	1236.	532.	4408.	1236.	532.	4408.	5712.	388.	0.	0.	.77	55.	26.7	D	14.0	2.4
4	3	1020.	0.	0.	3876.	0.	0.	3876.	6100.	0.	0.	0.	.64	62.	20.8	C	19.9	4.8
5	3	710.	76.	0.	3952.	76.	0.	3952.	6100.	0.	0.	0.	.65	62.	21.2	C	16.1	4.4
6	3	3820.	176.	1152.	4128.	176.	1152.	4128.	6138.	12.	0.	0.	.67	62.	22.2	C	17.1	4.8
7	2	1220.	0.	0.	2976.	0.	0.	2976.	4400.	0.	0.	0.	.68	62.	24.0	C	18.2	4.4
8	3	4810.	392.	756.	3368.	392.	756.	2814.	6100.	0.	* 4285.	554.	.46	10.	95.7	F	11.8	6.7
9	2	1370.	0.	0.	2612.	0.	0.	2058.	4000.	0.	** 1370.	554.	.51	8.	129.3	F	11.5	7.4
10	2	660.	248.	0.	2860.	248.	0.	2306.	4380.	20.	** 660.	554.	.53	8.	139.5	F	11.9	7.2
11	3	790.	1072.	680.	3932.	1072.	680.	3378.	5580.	520.	** 790.	554.	.61	11.	106.5	F	17.4	6.2
12	2	1460.	0.	0.	3252.	0.	0.	2698.	4100.	0.	** 1460.	554.	.66	12.	108.5	F	14.5	5.8
13	3	1400.	652.	0.	3904.	652.	0.	3350.	6036.	64.	** 1400.	554.	.56	9.	123.4	F	9.2	6.8
14	3	2600.	0.	388.	3904.	0.	388.	3350.	6036.	64.	** 2600.	554.	.56	9.	123.4	F	11.9	6.8
15	2	2010.	0.	0.	3516.	0.	0.	2962.	3900.	0.	** 2010.	554.	.76	17.	87.1	F	12.3	4.8
16	3	6120.	724.	484.	4240.	724.	484.	3686.	6100.	0.	** 6120.	554.	.60	11.	116.6	F	12.0	6.2
17	2	1240.	0.	0.	3756.	0.	0.	3202.	4300.	0.	** 1240.	554.	.74	16.	98.6	F	14.3	5.0
18	2	930.	556.	0.	4312.	556.	0.	3758.	4100.	0.	** 930.	342.	.92	29.	65.2	F	21.2	3.0
19	2	5330.	192.	556.	4504.	192.	488.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3948.	0.	0.	3462.	3800.	0.	0.	0.	.91	57.	30.5	D	22.6	2.4
21	2	1660.	480.	656.	4428.	480.	584.	3942.	4055.	245.	0.	0.	.97	53.	36.9	E	23.5	2.0
22	2	2270.	0.	0.	3772.	0.	0.	3358.	4400.	0.	0.	0.	.76	62.	27.3	D	20.8	4.1
23	2	3040.	136.	368.	3908.	136.	329.	3494.	4100.	0.	0.	0.	.85	60.	29.3	D	21.7	3.1
24	2	2190.	0.	0.	3540.	0.	0.	3165.	4200.	0.	0.	0.	.75	64.	24.7	C	19.6	5.6
25	3	2400.	80.	3620.	3620.	80.	3245.	3245.	6150.	0.	0.	0.	.53	65.	16.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	59.2		15.9	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 11 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	437. VEH-HRS	516. PASS-HRS	3214. VEH-HRS	3792. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	437. VEH-HRS	516. PASS-HRS	3214. VEH-HRS	3792. PASS-HRS
TOTAL TRAV DISTANCE =	9726. VEH-MI.	11477. PASS-MI.	114274. VEH-MI.	134843. PASS-MI.
AVERAGE SYSTEM SPEED =	22. MPH.		36. MPH.	
AVERAGE DENSITY =	59. VPMPL		41. VPMPL	
TOTAL FUEL =	612. GALLONS		6412. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		439. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3028.	0.	3028.	3028.	0.	3028.	3850.	0.	0.	0.	.79	50.	30.3	D	17.4	2.3
2	2	2070.	328.	0.	3356.	328.	0.	3356.	3832.	18.	0.	0.	.88	50.	33.6	D	15.9	2.3
3	3	2300.	1072.	556.	4428.	1072.	556.	4428.	5702.	398.	0.	0.	.78	55.	26.8	D	14.0	2.4
4	3	1020.	0.	0.	3872.	0.	0.	3872.	6100.	0.	0.	0.	.63	62.	20.8	C	19.9	4.8
5	3	710.	76.	0.	3948.	76.	0.	3948.	6100.	0.	0.	0.	.65	62.	21.2	C	16.1	4.4
6	3	3820.	176.	1204.	4124.	176.	1204.	3778.	6131.	19.	* 56.	346.	.62	62.	20.3	F	17.1	4.8
7	2	1220.	0.	0.	2920.	0.	0.	2574.	4400.	0.	** 1220.	346.	.58	25.	52.4	F	15.7	4.9
8	3	4810.	476.	780.	3396.	476.	780.	3050.	6100.	0.	** 4810.	346.	.50	8.	131.1	F	10.5	7.5
9	2	1370.	0.	0.	2616.	0.	0.	2270.	4000.	0.	** 1370.	346.	.57	9.	120.7	F	13.6	6.6
10	2	660.	216.	0.	2832.	216.	0.	2486.	4382.	18.	** 660.	346.	.57	9.	132.2	F	13.6	6.6
11	3	790.	1080.	736.	3912.	1080.	736.	3566.	5546.	554.	** 790.	346.	.64	12.	100.1	F	18.8	5.9
12	2	1460.	0.	0.	3176.	0.	0.	2830.	4100.	0.	** 1460.	346.	.69	14.	103.1	F	15.4	5.5
13	3	1400.	660.	0.	3836.	660.	0.	3490.	6020.	80.	** 1400.	346.	.58	10.	119.1	F	9.8	6.4
14	3	2600.	0.	460.	3836.	0.	460.	3490.	6020.	80.	** 2600.	346.	.58	10.	119.1	F	12.8	6.4
15	2	2010.	0.	0.	3376.	0.	0.	3030.	3900.	0.	** 2010.	346.	.78	18.	84.3	F	12.5	4.6
16	3	6120.	700.	548.	4076.	700.	548.	3730.	6100.	0.	** 6120.	346.	.61	11.	115.4	F	12.1	6.1
17	2	1240.	0.	0.	3528.	0.	0.	3182.	4300.	0.	** 1240.	346.	.74	16.	99.4	F	14.2	5.0
18	2	930.	576.	0.	4104.	576.	0.	3758.	4100.	0.	** 930.	342.	.92	29.	65.2	F	21.2	3.0
19	2	5330.	192.	600.	4296.	192.	552.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3696.	0.	0.	3398.	3800.	0.	0.	0.	.89	58.	29.5	D	22.3	2.6
21	2	1660.	512.	744.	4208.	512.	691.	3910.	4006.	294.	0.	0.	.98	53.	36.8	E	23.6	2.0
22	2	2270.	0.	0.	3464.	0.	0.	3219.	4400.	0.	0.	0.	.73	62.	26.0	D	20.7	4.3
23	2	3040.	172.	348.	3636.	172.	324.	3391.	4100.	0.	0.	0.	.83	60.	28.1	D	21.4	3.4
24	2	2190.	0.	0.	3288.	0.	0.	3066.	4200.	0.	0.	0.	.73	64.	23.8	C	19.4	5.8
25	3	2400.	128.	3416.	3416.	128.	3194.	3194.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	61.6		15.8	4.4

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 12 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	455. VEH-HRS	537. PASS-HRS	3669. VEH-HRS	4329. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	455. VEH-HRS	537. PASS-HRS	3669. VEH-HRS	4329. PASS-HRS
TOTAL TRAV DISTANCE =	9850. VEH-MI.	11623. PASS-MI.	124123. VEH-MI.	146466. PASS-MI.
AVERAGE SYSTEM SPEED =	22. MPH.		34. MPH.	
AVERAGE DENSITY =	62. VPMPL		43. VPMPL	
TOTAL FUEL =	623. GALLONS		7035. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		482. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2096.	0.	2096.	2096.	0.	2096.	3850.	0.	0.	0.	.54	50.	21.0	C	17.4	2.3
2	2	2070.	468.	0.	2564.	468.	0.	2564.	3835.	15.	0.	0.	.67	50.	25.6	C	15.9	2.3
3	3	2300.	1256.	464.	3820.	1256.	464.	3820.	5787.	313.	0.	0.	.66	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3356.	0.	0.	3356.	6100.	0.	0.	0.	.55	62.	18.0	C	19.9	4.8
5	3	710.	88.	0.	3444.	88.	0.	3444.	6100.	0.	0.	0.	.56	62.	18.5	C	16.1	4.4
6	3	3820.	188.	1204.	3632.	188.	1204.	3632.	6131.	19.	0.	0.	.59	62.	19.6	C	17.1	4.8
7	2	1220.	0.	0.	2428.	0.	0.	2534.	4400.	0.	* 667.	-106.	.58	12.	109.8	F	12.3	6.1
8	3	4810.	404.	764.	2832.	404.	764.	2938.	6100.	0.	** 4810.	-106.	.48	7.	136.9	F	10.0	7.8
9	2	1370.	0.	0.	2068.	0.	0.	2174.	4000.	0.	** 1370.	-106.	.54	9.	124.6	F	12.5	7.0
10	2	660.	304.	0.	2372.	304.	0.	2478.	4371.	29.	** 660.	-106.	.57	9.	132.0	F	13.5	6.6
11	3	790.	1088.	728.	3460.	1088.	728.	3566.	5565.	535.	** 790.	-106.	.64	12.	100.8	F	18.7	5.9
12	2	1460.	0.	0.	2732.	0.	0.	2838.	4100.	0.	** 1460.	-106.	.69	14.	102.8	F	15.4	5.5
13	3	1400.	692.	0.	3424.	692.	0.	3530.	5992.	108.	** 1400.	-106.	.59	10.	117.0	F	10.0	6.3
14	3	2600.	0.	524.	3424.	0.	524.	3530.	5992.	108.	** 2600.	-106.	.59	10.	117.0	F	13.2	6.3
15	2	2010.	0.	0.	2900.	0.	0.	3006.	3900.	0.	** 2010.	-106.	.77	18.	85.3	F	12.5	4.7
16	3	6120.	704.	552.	3604.	704.	552.	3710.	6100.	0.	** 6120.	-106.	.61	11.	115.9	F	12.0	6.2
17	2	1240.	0.	0.	3052.	0.	0.	3158.	4300.	0.	** 1240.	-106.	.73	16.	100.4	F	14.1	5.1
18	2	930.	568.	0.	3620.	568.	0.	3726.	4100.	0.	** 930.	-106.	.91	28.	66.5	F	21.0	3.1
19	2	5330.	224.	596.	3844.	224.	612.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3248.	0.	0.	3338.	3800.	0.	0.	0.	.88	58.	28.7	D	22.1	2.8
21	2	1660.	536.	732.	3784.	536.	749.	3874.	3998.	302.	0.	0.	.97	54.	36.1	E	23.5	2.0
22	2	2270.	0.	0.	3052.	0.	0.	3124.	4400.	0.	0.	0.	.71	62.	25.2	C	20.6	4.3
23	2	3040.	168.	364.	3220.	168.	372.	3292.	4100.	0.	0.	0.	.80	61.	27.0	D	21.1	3.7
24	2	2190.	0.	0.	2856.	0.	0.	2920.	4200.	0.	0.	0.	.70	65.	22.5	C	19.3	6.0
25	3	2400.	104.	2960.	2960.	104.	3024.	3024.	6150.	0.	0.	0.	.49	65.	15.5	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 20. 61.6 15.6 4.5

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 13 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	453. VEH-HRS	535. PASS-HRS	4122. VEH-HRS	4864. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	453. VEH-HRS	535. PASS-HRS	4122. VEH-HRS	4864. PASS-HRS
TOTAL TRAV DISTANCE =	9173. VEH-MI.	10825. PASS-MI.	133297. VEH-MI.	157290. PASS-MI.
AVERAGE SYSTEM SPEED =	20. MPH.		32. MPH.	
AVERAGE DENSITY =	62. VPMPL		44. VPMPL	
TOTAL FUEL =	588. GALLONS		7623. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		524. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2572.	0.	2572.	2572.	0.	2572.	3850.	0.	0.	0.	.67	50.	25.7	C	17.4	2.3
2	2	2070.	316.	0.	2888.	316.	0.	2888.	3838.	12.	0.	0.	.75	50.	28.9	D	15.9	2.3
3	3	2300.	1176.	400.	4064.	1176.	400.	4064.	5830.	270.	0.	0.	.70	55.	24.6	C	14.0	2.4
4	3	1020.	0.	0.	3664.	0.	0.	3664.	6100.	0.	0.	0.	.60	62.	19.7	C	19.9	4.8
5	3	710.	84.	0.	3748.	84.	0.	3748.	6100.	0.	0.	0.	.61	62.	20.2	C	16.1	4.4
6	3	3820.	176.	1232.	3924.	176.	1232.	3924.	6126.	24.	0.	0.	.64	62.	21.1	C	17.1	4.8
7	2	1220.	0.	0.	2692.	0.	0.	2742.	4400.	0.	* 340.	-50.	.62	21.	64.1	F	15.1	5.1
8	3	4810.	308.	800.	3000.	308.	800.	3050.	6100.	0.	** 4810.	-50.	.50	8.	133.9	F	10.4	7.6
9	2	1370.	0.	0.	2200.	0.	0.	2250.	4000.	0.	** 1370.	-50.	.56	9.	121.5	F	13.3	6.7
10	2	660.	380.	0.	2580.	380.	0.	2630.	4365.	35.	** 660.	-50.	.60	10.	125.5	F	15.0	6.2
11	3	790.	1052.	728.	3632.	1052.	728.	3682.	5543.	557.	** 790.	-50.	.66	13.	96.9	F	19.8	5.7
12	2	1460.	0.	0.	2904.	0.	0.	2954.	4100.	0.	** 1460.	-50.	.72	15.	98.1	F	16.3	5.2
13	3	1400.	660.	0.	3564.	660.	0.	3614.	6000.	100.	** 1400.	-50.	.60	10.	115.0	F	10.1	6.2
14	3	2600.	0.	544.	3564.	0.	544.	3614.	6000.	100.	** 2600.	-50.	.60	10.	115.0	F	13.4	6.2
15	2	2010.	0.	0.	3020.	0.	0.	3070.	3900.	0.	** 2010.	-50.	.79	19.	82.7	F	12.6	4.5
16	3	6120.	668.	560.	3688.	668.	560.	3738.	6100.	0.	** 6120.	-50.	.61	11.	115.2	F	12.1	6.1
17	2	1240.	0.	0.	3128.	0.	0.	3178.	4300.	0.	** 1240.	-50.	.74	16.	99.6	F	14.2	5.1
18	2	930.	556.	0.	3684.	556.	0.	3734.	4100.	0.	** 930.	-50.	.91	28.	66.2	F	21.0	3.1
19	2	5330.	216.	616.	3900.	216.	624.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3284.	0.	0.	3326.	3800.	0.	0.	0.	.88	58.	28.5	D	22.1	2.8
21	2	1660.	484.	744.	3768.	484.	752.	3810.	4048.	252.	0.	0.	.94	55.	34.5	D	23.1	2.1
22	2	2270.	0.	0.	3024.	0.	0.	3058.	4400.	0.	0.	0.	.69	62.	24.7	C	20.6	4.4
23	2	3040.	172.	384.	3196.	172.	388.	3230.	4100.	0.	0.	0.	.79	61.	26.4	D	21.0	3.9
24	2	2190.	0.	0.	2812.	0.	0.	2842.	4200.	0.	0.	0.	.68	65.	21.9	C	19.2	6.1
25	3	2400.	96.	2908.	2908.	96.	2938.	2938.	6150.	0.	0.	0.	.48	65.	15.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 21.	60.5		15.8	4.5

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 14 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	446. VEH-HRS	526. PASS-HRS	4568. VEH-HRS	5390. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	446. VEH-HRS	526. PASS-HRS	4568. VEH-HRS	5390. PASS-HRS
TOTAL TRAV DISTANCE =	9502. VEH-MI.	11212. PASS-MI.	142799. VEH-MI.	168502. PASS-MI.
AVERAGE SYSTEM SPEED =	21. MPH.		31. MPH.	
AVERAGE DENSITY =	60. VPMPL		45. VPMPL	
TOTAL FUEL =	602. GALLONS		8225. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		566. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2336.	0.	2336.	2336.	0.	2336.	3850.	0.	0.	0.	.61	50.	23.4	C	17.4	2.3
2	2	2070.	300.	0.	2636.	300.	0.	2636.	3839.	11.	0.	0.	.69	50.	26.4	D	15.9	2.3
3	3	2300.	1164.	404.	3800.	1164.	404.	3800.	5836.	264.	0.	0.	.65	55.	23.0	C	14.0	2.4
4	3	1020.	0.	0.	3396.	0.	0.	3396.	6100.	0.	0.	0.	.56	62.	18.3	C	19.9	4.8
5	3	710.	84.	0.	3480.	84.	0.	3480.	6100.	0.	0.	0.	.57	62.	18.7	C	16.1	4.4
6	3	3820.	176.	1148.	3656.	176.	1148.	3656.	6144.	6.	0.	0.	.60	62.	19.7	C	17.1	4.8
7	2	1220.	0.	0.	2508.	0.	0.	2562.	4400.	0.	0.	-54.	.58	35.	36.9	E	16.8	4.7
8	3	4810.	392.	768.	2900.	392.	768.	2954.	6100.	0.	** 4810.	-54.	.48	7.	136.5	F	10.0	7.8
9	2	1370.	0.	0.	2132.	0.	0.	2186.	4000.	0.	** 1370.	-54.	.55	9.	124.1	F	12.6	6.9
10	2	660.	408.	0.	2540.	408.	0.	2594.	4364.	36.	** 660.	-54.	.59	10.	126.8	F	14.8	6.2
11	3	790.	996.	696.	3536.	996.	696.	3590.	5556.	544.	** 790.	-54.	.65	12.	99.9	F	19.0	5.9
12	2	1460.	0.	0.	2840.	0.	0.	2894.	4100.	0.	** 1460.	-54.	.71	14.	100.5	F	15.8	5.4
13	3	1400.	672.	0.	3512.	672.	0.	3566.	6000.	100.	** 1400.	-54.	.59	10.	116.3	F	10.1	6.2
14	3	2600.	0.	524.	3512.	0.	524.	3566.	6000.	100.	** 2600.	-54.	.59	10.	116.3	F	13.3	6.2
15	2	2010.	0.	0.	2988.	0.	0.	3042.	3900.	0.	** 2010.	-54.	.78	18.	83.8	F	12.6	4.6
16	3	6120.	684.	516.	3672.	684.	516.	3726.	6100.	0.	** 6120.	-54.	.61	11.	115.5	F	12.1	6.1
17	2	1240.	0.	0.	3156.	0.	0.	3210.	4300.	0.	** 1240.	-54.	.75	16.	98.3	F	14.3	5.0
18	2	930.	556.	0.	3712.	556.	0.	3766.	4100.	0.	** 930.	-54.	.92	29.	64.9	F	21.3	3.0
19	2	5330.	184.	592.	3896.	184.	600.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3304.	0.	0.	3350.	3800.	0.	0.	0.	.88	58.	28.8	D	22.2	2.7
21	2	1660.	420.	684.	3724.	420.	692.	3770.	4111.	189.	0.	0.	.92	57.	33.3	D	22.6	2.4
22	2	2270.	0.	0.	3040.	0.	0.	3077.	4400.	0.	0.	0.	.70	62.	24.8	C	20.6	4.4
23	2	3040.	208.	376.	3248.	208.	380.	3285.	4100.	0.	0.	0.	.80	61.	26.9	D	21.1	3.8
24	2	2190.	0.	0.	2872.	0.	0.	2905.	4200.	0.	0.	0.	.69	65.	22.4	C	19.3	6.0
25	3	2400.	116.	2988.	2988.	116.	3021.	3021.	6150.	0.	0.	0.	.49	65.	15.5	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 21.	60.0		15.7	4.5

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 15 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	443. VEH-HRS	523. PASS-HRS	5011. VEH-HRS	5913. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	443. VEH-HRS	523. PASS-HRS	5011. VEH-HRS	5913. PASS-HRS
TOTAL TRAV DISTANCE =	9276. VEH-MI.	10945. PASS-MI.	152074. VEH-MI.	179448. PASS-MI.
AVERAGE SYSTEM SPEED =	21. MPH.		30. MPH.	
AVERAGE DENSITY =	60. VPMPL		46. VPMPL	
TOTAL FUEL =	590. GALLONS		8815. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		608. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3028.	0.	3028.	3028.	0.	3028.	3850.	0.	0.	0.	.79	50.	30.3	D	17.4	2.3
2	2	2070.	240.	0.	3268.	240.	0.	3268.	3841.	9.	0.	0.	.85	50.	32.7	D	15.9	2.3
3	3	2300.	1068.	388.	4336.	1068.	388.	4336.	5842.	258.	0.	0.	.74	55.	26.3	D	14.0	2.4
4	3	1020.	0.	0.	3948.	0.	0.	3948.	6100.	0.	0.	0.	.65	62.	21.2	C	19.9	4.8
5	3	710.	72.	0.	4020.	72.	0.	4020.	6100.	0.	0.	0.	.66	62.	21.6	C	16.1	4.4
6	3	3820.	148.	1204.	4168.	148.	1204.	4168.	6134.	16.	0.	0.	.68	62.	22.4	C	17.1	4.8
7	2	1220.	0.	0.	2964.	0.	0.	2964.	4400.	0.	0.	0.	.67	62.	23.9	C	18.2	4.4
8	3	4810.	280.	796.	3244.	280.	796.	3394.	6100.	0.	* 4194.	-150.	.56	10.	118.0	F	12.2	6.6
9	2	1370.	0.	0.	2448.	0.	0.	2598.	4000.	0.	** 1370.	-150.	.65	12.	107.3	F	16.4	5.9
10	2	660.	336.	0.	2784.	336.	0.	2934.	4369.	31.	** 660.	-150.	.67	13.	113.2	F	17.2	5.7
11	3	790.	1016.	768.	3800.	1016.	768.	3950.	5499.	601.	** 790.	-150.	.72	15.	88.0	F	22.9	5.3
12	2	1460.	0.	0.	3032.	0.	0.	3182.	4100.	0.	** 1460.	-150.	.78	18.	88.8	F	17.5	4.6
13	3	1400.	660.	0.	3692.	660.	0.	3842.	5992.	108.	** 1400.	-150.	.64	12.	108.5	F	10.5	5.9
14	3	2600.	0.	604.	3692.	0.	604.	3842.	5992.	108.	** 2600.	-150.	.64	12.	108.5	F	14.1	5.9
15	2	2010.	0.	0.	3088.	0.	0.	3238.	3900.	0.	** 2010.	-150.	.83	21.	75.8	F	13.2	4.0
16	3	6120.	600.	612.	3688.	600.	612.	3838.	6100.	0.	** 6120.	-150.	.63	11.	112.4	F	12.3	6.0
17	2	1240.	0.	0.	3076.	0.	0.	3226.	4300.	0.	** 1240.	-150.	.75	17.	97.6	F	14.3	4.9
18	2	930.	536.	0.	3612.	536.	0.	3762.	4100.	0.	** 930.	-150.	.92	29.	65.1	F	21.2	3.0
19	2	5330.	188.	648.	3800.	188.	674.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3152.	0.	0.	3276.	3800.	0.	0.	0.	.86	59.	27.9	D	22.0	2.9
21	2	1660.	440.	756.	3592.	440.	782.	3716.	4074.	226.	0.	0.	.91	57.	32.7	D	22.6	2.4
22	2	2270.	0.	0.	2836.	0.	0.	2934.	4400.	0.	0.	0.	.67	62.	23.7	C	20.6	4.4
23	2	3040.	160.	404.	2996.	160.	417.	3094.	4100.	0.	0.	0.	.75	62.	25.1	C	20.7	4.2
24	2	2190.	0.	0.	2592.	0.	0.	2677.	4200.	0.	0.	0.	.64	65.	20.6	C	19.2	6.1
25	3	2400.	96.	2688.	2688.	96.	2773.	2773.	6150.	0.	0.	0.	.45	65.	14.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 24.	57.2		16.3	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 16 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	421. VEH-HRS	497. PASS-HRS	5432. VEH-HRS	6410. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	421. VEH-HRS	497. PASS-HRS	5433. VEH-HRS	6410. PASS-HRS
TOTAL TRAV DISTANCE =	9930. VEH-MI.	11717. PASS-MI.	162004. VEH-MI.	191165. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		30. MPH.	
AVERAGE DENSITY =	57. VPMPL		47. VPMPL	
TOTAL FUEL =	610. GALLONS		9425. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		651. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2504.	0.	2504.	2504.	0.	2504.	3850.	0.	0.	0.	.65	50.	25.0	C	17.4	2.3
2	2	2070.	276.	0.	2780.	276.	0.	2780.	3841.	9.	0.	0.	.72	50.	27.8	D	15.9	2.3
3	3	2300.	1300.	332.	4080.	1300.	332.	4080.	5873.	227.	0.	0.	.69	55.	24.7	C	14.0	2.4
4	3	1020.	0.	0.	3748.	0.	0.	3748.	6100.	0.	0.	0.	.61	62.	20.2	C	19.9	4.8
5	3	710.	108.	0.	3856.	108.	0.	3856.	6100.	0.	0.	0.	.63	62.	20.7	C	16.1	4.4
6	3	3820.	184.	1140.	4040.	184.	1140.	4040.	6137.	13.	0.	0.	.66	62.	21.7	C	17.1	4.8
7	2	1220.	0.	0.	2900.	0.	0.	2900.	4400.	0.	0.	0.	.66	62.	23.4	C	18.2	4.4
8	3	4810.	332.	704.	3232.	332.	704.	3614.	6100.	0.	* 2532.	-382.	.59	13.	91.0	F	14.7	5.7
9	2	1370.	0.	0.	2528.	0.	0.	2910.	4000.	0.	** 1370.	-382.	.73	15.	94.5	F	19.9	5.2
10	2	660.	220.	0.	2748.	220.	0.	3130.	4380.	20.	** 660.	-382.	.71	15.	105.8	F	19.3	5.3
11	3	790.	1032.	768.	3780.	1032.	768.	4162.	5520.	580.	** 790.	-382.	.75	17.	83.0	F	24.8	4.9
12	2	1460.	0.	0.	3012.	0.	0.	3394.	4100.	0.	** 1460.	-382.	.83	21.	80.1	F	18.9	4.0
13	3	1400.	632.	0.	3644.	632.	0.	4026.	5988.	112.	** 1400.	-382.	.67	13.	103.3	F	10.9	5.7
14	3	2600.	0.	644.	3644.	0.	644.	4026.	5988.	112.	** 2600.	-382.	.67	13.	103.3	F	14.9	5.7
15	2	2010.	0.	0.	3000.	0.	0.	3382.	3900.	0.	** 2010.	-382.	.87	24.	69.9	F	13.8	3.5
16	3	6120.	572.	656.	3572.	572.	656.	3954.	6100.	0.	** 6120.	-382.	.65	12.	109.3	F	12.6	5.9
17	2	1240.	0.	0.	2916.	0.	0.	3298.	4300.	0.	** 1240.	-382.	.77	17.	94.7	F	14.5	4.7
18	2	930.	476.	0.	3392.	476.	0.	3774.	4100.	0.	** 930.	-382.	.92	29.	64.6	F	21.3	3.0
19	2	5330.	176.	596.	3568.	176.	660.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	2972.	0.	0.	3290.	3800.	0.	0.	0.	.87	59.	28.1	D	22.0	2.9
21	2	1660.	460.	736.	3432.	460.	804.	3750.	4084.	216.	0.	0.	.92	57.	33.2	D	22.7	2.3
22	2	2270.	0.	0.	2696.	0.	0.	2946.	4400.	0.	0.	0.	.67	62.	23.8	C	20.6	4.4
23	2	3040.	144.	376.	2840.	144.	409.	3090.	4100.	0.	0.	0.	.75	62.	25.1	C	20.7	4.2
24	2	2190.	0.	0.	2464.	0.	0.	2681.	4200.	0.	0.	0.	.64	65.	20.6	C	19.2	6.1
25	3	2400.	80.	2544.	2544.	80.	2761.	2761.	6150.	0.	0.	0.	.45	65.	14.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 26.	52.6		16.8	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 17 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	385. VEH-HRS	454. PASS-HRS	5817. VEH-HRS	6864. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	385. VEH-HRS	454. PASS-HRS	5817. VEH-HRS	6864. PASS-HRS
TOTAL TRAV DISTANCE =	9822. VEH-MI.	11590. PASS-MI.	171826. VEH-MI.	202755. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		30. MPH.	
AVERAGE DENSITY =	53. VPMPL		47. VPMPL	
TOTAL FUEL =	585. GALLONS		10010. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		692. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2324.	0.	2324.	2324.	0.	2324.	3850.	0.	0.	0.	.60	50.	23.2	C	17.4	2.3
2	2	2070.	340.	0.	2664.	340.	0.	2664.	3841.	9.	0.	0.	.69	50.	26.6	D	15.9	2.3
3	3	2300.	1372.	320.	4036.	1372.	320.	4036.	5888.	212.	0.	0.	.69	55.	24.5	C	14.0	2.4
4	3	1020.	0.	0.	3716.	0.	0.	3716.	6100.	0.	0.	0.	.61	62.	20.0	C	19.9	4.8
5	3	710.	156.	0.	3872.	156.	0.	3872.	6100.	0.	0.	0.	.63	62.	20.8	C	16.1	4.4
6	3	3820.	152.	1040.	4024.	152.	1040.	4024.	6150.	0.	0.	0.	.65	62.	21.6	C	17.1	4.8
7	2	1220.	0.	0.	2984.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	18.2	4.4
8	3	4810.	324.	656.	3308.	324.	656.	3674.	6100.	0.	* 907.	-366.	.60	22.	56.9	F	17.1	5.1
9	2	1370.	0.	0.	2652.	0.	0.	3018.	4000.	0.	** 1370.	-366.	.75	17.	90.1	F	21.0	4.9
10	2	660.	224.	0.	2876.	224.	0.	3242.	4380.	20.	** 660.	-366.	.74	16.	101.2	F	20.4	5.0
11	3	790.	960.	740.	3836.	960.	740.	4202.	5520.	580.	** 790.	-366.	.76	17.	81.9	F	25.2	4.8
12	2	1460.	0.	0.	3096.	0.	0.	3462.	4100.	0.	** 1460.	-366.	.84	22.	77.3	F	19.3	3.8
13	3	1400.	528.	0.	3624.	528.	0.	3990.	6016.	84.	** 1400.	-366.	.66	13.	105.3	F	10.7	5.8
14	3	2600.	0.	576.	3624.	0.	576.	3990.	6016.	84.	** 2600.	-366.	.66	13.	105.3	F	14.6	5.8
15	2	2010.	0.	0.	3048.	0.	0.	3414.	3900.	0.	** 2010.	-366.	.88	25.	68.6	F	14.0	3.4
16	3	6120.	564.	624.	3612.	564.	624.	3978.	6100.	0.	** 6120.	-366.	.65	12.	108.6	F	12.6	5.8
17	2	1240.	0.	0.	2988.	0.	0.	3354.	4300.	0.	** 1240.	-366.	.78	18.	92.4	F	14.7	4.6
18	2	930.	440.	0.	3428.	440.	0.	3794.	4100.	0.	** 930.	-366.	.93	30.	63.7	F	21.5	2.9
19	2	5330.	156.	580.	3584.	156.	639.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3004.	0.	0.	3311.	3800.	0.	0.	0.	.87	58.	28.3	D	22.1	2.8
21	2	1660.	404.	660.	3408.	404.	719.	3715.	4154.	146.	0.	0.	.89	58.	32.2	D	22.3	2.6
22	2	2270.	0.	0.	2748.	0.	0.	2995.	4400.	0.	0.	0.	.68	62.	24.2	C	20.6	4.4
23	2	3040.	180.	392.	2928.	180.	425.	3175.	4100.	0.	0.	0.	.77	61.	25.8	C	20.9	4.0
24	2	2190.	0.	0.	2536.	0.	0.	2750.	4200.	0.	0.	0.	.65	65.	21.2	C	19.2	6.1
25	3	2400.	80.	2616.	2616.	80.	2830.	2830.	6150.	0.	0.	0.	.46	65.	14.5	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 27.	49.5		17.1	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	359. VEH-HRS	423. PASS-HRS	6176. VEH-HRS	7287. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	359. VEH-HRS	423. PASS-HRS	6176. VEH-HRS	7288. PASS-HRS
TOTAL TRAV DISTANCE =	9796. VEH-MI.	11559. PASS-MI.	181622. VEH-MI.	214314. PASS-MI.
AVERAGE SYSTEM SPEED =	27. MPH.		29. MPH.	
AVERAGE DENSITY =	49. VPMPL		47. VPMPL	
TOTAL FUEL =	574. GALLONS		10584. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		733. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2328.	0.	2328.	2328.	0.	2328.	3850.	0.	0.	0.	.60	50.	23.3	C	17.4	2.3
2	2	2070.	348.	0.	2676.	348.	0.	2676.	3839.	11.	0.	0.	.70	50.	26.8	D	15.9	2.3
3	3	2300.	1432.	376.	4108.	1432.	376.	4108.	5843.	257.	0.	0.	.70	55.	24.9	C	14.0	2.4
4	3	1020.	0.	0.	3732.	0.	0.	3732.	6100.	0.	0.	0.	.61	62.	20.1	C	19.9	4.8
5	3	710.	164.	0.	3896.	164.	0.	3896.	6100.	0.	0.	0.	.64	62.	20.9	C	16.1	4.4
6	3	3820.	260.	728.	4156.	260.	728.	4156.	6150.	0.	0.	0.	.68	62.	22.3	C	17.1	4.8
7	2	1220.	0.	0.	3428.	0.	0.	3428.	4400.	0.	0.	0.	.78	61.	27.9	D	18.4	4.0
8	3	4810.	332.	688.	3760.	332.	688.	3760.	6100.	0.	0.	0.	.62	54.	23.1	C	20.3	4.4
9	2	1370.	0.	0.	3072.	0.	0.	3072.	4000.	0.	0.	0.	.77	35.	43.8	E	25.0	3.9
10	2	660.	280.	0.	3352.	280.	0.	3352.	4376.	24.	0.	0.	.77	30.	55.9	F	25.3	3.7
11	3	790.	804.	780.	4156.	804.	780.	4156.	5444.	656.	0.	0.	.76	25.	54.7	F	30.6	3.9
12	2	1460.	0.	0.	3376.	0.	0.	3818.	4100.	0.	* 613.	-442.	.93	31.	62.0	F	21.6	2.9
13	3	1400.	428.	0.	3804.	428.	0.	4246.	6040.	60.	** 1400.	-442.	.70	14.	99.2	F	11.3	5.4
14	3	2600.	0.	532.	3804.	0.	532.	4246.	6040.	60.	** 2600.	-442.	.70	14.	99.2	F	15.7	5.4
15	2	2010.	0.	0.	3272.	0.	0.	3714.	3900.	0.	** 2010.	-442.	.95	33.	56.3	F	15.2	2.7
16	3	6120.	440.	688.	3712.	440.	688.	4154.	6100.	0.	** 6120.	-442.	.68	13.	103.8	F	13.1	5.6
17	2	1240.	0.	0.	3024.	0.	0.	3466.	4300.	0.	** 1240.	-442.	.81	20.	87.8	F	15.2	4.2
18	2	930.	348.	0.	3372.	348.	0.	3814.	4100.	0.	** 930.	-442.	.93	30.	62.9	F	21.6	2.9
19	2	5330.	136.	612.	3508.	136.	689.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	2896.	0.	0.	3261.	3800.	0.	0.	0.	.86	59.	27.7	D	21.9	2.9
21	2	1660.	328.	748.	3224.	328.	833.	3589.	4174.	126.	0.	0.	.86	59.	30.5	D	22.0	2.9
22	2	2270.	0.	0.	2476.	0.	0.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	20.6	4.4
23	2	3040.	152.	444.	2628.	152.	491.	2908.	4100.	0.	0.	0.	.71	62.	23.5	C	20.6	4.4
24	2	2190.	0.	0.	2184.	0.	0.	2417.	4200.	0.	0.	0.	.58	65.	18.6	C	19.2	6.1
25	3	2400.	76.	2260.	2260.	76.	2493.	2493.	6150.	0.	0.	0.	.41	65.	12.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 32.	42.9		17.7	4.0

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 19 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	313. VEH-HRS	369. PASS-HRS	6489. VEH-HRS	7657. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	313. VEH-HRS	369. PASS-HRS	6489. VEH-HRS	7657. PASS-HRS
TOTAL TRAV DISTANCE =	9981. VEH-MI.	11778. PASS-MI.	191603. VEH-MI.	226092. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		30. MPH.	
AVERAGE DENSITY =	43. VPMPL		47. VPMPL	
TOTAL FUEL =	565. GALLONS		11149. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		772. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1720.	0.	1720.	1720.	0.	1720.	3850.	0.	0.	0.	.45	50.	17.2	B	17.4	2.3
2	2	2070.	332.	0.	2052.	332.	0.	2052.	3847.	3.	0.	0.	.53	50.	20.5	C	15.9	2.3
3	3	2300.	1536.	352.	3588.	1536.	352.	3588.	5896.	204.	0.	0.	.61	55.	21.7	C	14.0	2.4
4	3	1020.	0.	0.	3236.	0.	0.	3236.	6100.	0.	0.	0.	.53	62.	17.4	B	19.9	4.8
5	3	710.	240.	0.	3476.	240.	0.	3476.	6100.	0.	0.	0.	.57	62.	18.7	C	16.1	4.4
6	3	3820.	300.	800.	3776.	300.	800.	3776.	6150.	0.	0.	0.	.61	62.	20.3	C	17.1	4.8
7	2	1220.	0.	0.	2976.	0.	0.	2976.	4400.	0.	0.	0.	.68	62.	24.0	C	18.2	4.4
8	3	4810.	432.	628.	3408.	432.	628.	3408.	6100.	0.	0.	0.	.56	62.	18.3	C	20.6	4.4
9	2	1370.	0.	0.	2780.	0.	0.	2780.	4000.	0.	0.	0.	.70	62.	22.4	C	23.6	4.4
10	2	660.	252.	0.	3032.	252.	0.	3032.	4378.	22.	0.	0.	.69	62.	24.5	C	23.6	4.4
11	3	790.	756.	700.	3788.	756.	700.	3788.	5514.	586.	0.	0.	.69	62.	20.4	C	30.0	4.4
12	2	1460.	0.	0.	3088.	0.	0.	3088.	4100.	0.	0.	0.	.75	61.	25.4	C	20.7	4.1
13	3	1400.	408.	0.	3496.	408.	0.	3496.	6044.	56.	0.	0.	.58	32.	36.8	E	12.8	4.7
14	3	2600.	0.	476.	3496.	0.	476.	4190.	6044.	56.	* 474.	-694.	.69	16.	85.0	F	16.3	5.3
15	2	2010.	0.	0.	3020.	0.	0.	3714.	3900.	0.	** 2010.	-694.	.95	33.	56.3	F	15.2	2.7
16	3	6120.	340.	608.	3360.	340.	608.	4054.	6100.	0.	** 6120.	-694.	.66	13.	106.6	F	12.8	5.7
17	2	1240.	0.	0.	2752.	0.	0.	3446.	4300.	0.	** 1240.	-694.	.80	19.	88.6	F	15.1	4.3
18	2	930.	388.	0.	3140.	388.	0.	3834.	4100.	0.	** 930.	-694.	.94	31.	62.1	F	21.7	2.8
19	2	5330.	116.	500.	3256.	116.	607.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	2756.	0.	0.	3343.	3800.	0.	0.	0.	.88	58.	28.7	D	22.2	2.7
21	2	1660.	328.	632.	3084.	328.	752.	3671.	4235.	65.	0.	0.	.87	59.	31.3	D	22.0	2.9
22	2	2270.	0.	0.	2452.	0.	0.	2919.	4400.	0.	0.	0.	.66	62.	23.5	C	20.6	4.4
23	2	3040.	104.	364.	2556.	104.	430.	3023.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
24	2	2190.	0.	0.	2192.	0.	0.	2592.	4200.	0.	0.	0.	.62	65.	19.9	C	19.2	6.1
25	3	2400.	72.	2264.	2264.	72.	2664.	2664.	6150.	0.	0.	0.	.43	65.	13.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 34.	37.6		17.7	4.0

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 20 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	272. VEH-HRS	321. PASS-HRS	6761. VEH-HRS	7978. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	272. VEH-HRS	321. PASS-HRS	6761. VEH-HRS	7978. PASS-HRS
TOTAL TRAV DISTANCE =	9332. VEH-MI.	11011. PASS-MI.	200935. VEH-MI.	237103. PASS-MI.
AVERAGE SYSTEM SPEED =	34. MPH.		30. MPH.	
AVERAGE DENSITY =	38. VPMPL		47. VPMPL	
TOTAL FUEL =	526. GALLONS		11675. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		810. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1488.	0.	1488.	1488.	0.	1488.	3850.	0.	0.	0.	.39	50.	14.9	B	17.4	2.3
2	2	2070.	408.	0.	1896.	408.	0.	1896.	3850.	0.	0.	0.	.49	50.	19.0	C	15.9	2.3
3	3	2300.	1364.	352.	3260.	1364.	352.	3260.	5906.	194.	0.	0.	.55	55.	19.8	C	14.0	2.4
4	3	1020.	0.	0.	2908.	0.	0.	2908.	6100.	0.	0.	0.	.48	62.	15.6	B	19.9	4.8
5	3	710.	148.	0.	3056.	148.	0.	3056.	6100.	0.	0.	0.	.50	62.	16.4	B	16.1	4.4
6	3	3820.	296.	684.	3352.	296.	684.	3352.	6150.	0.	0.	0.	.55	62.	18.0	C	17.1	4.8
7	2	1220.	0.	0.	2668.	0.	0.	2668.	4400.	0.	0.	0.	.61	62.	21.5	C	18.2	4.4
8	3	4810.	408.	536.	3076.	408.	536.	3076.	6100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
9	2	1370.	0.	0.	2540.	0.	0.	2540.	4000.	0.	0.	0.	.64	62.	20.5	C	23.6	4.4
10	2	660.	192.	0.	2732.	192.	0.	2732.	4382.	18.	0.	0.	.62	62.	22.0	C	23.6	4.4
11	3	790.	748.	704.	3480.	748.	704.	3480.	5526.	574.	0.	0.	.63	62.	18.7	C	30.0	4.4
12	2	1460.	0.	0.	2776.	0.	0.	2776.	4100.	0.	0.	0.	.68	62.	22.4	C	20.6	4.4
13	3	1400.	388.	0.	3164.	388.	0.	3164.	6032.	68.	0.	0.	.52	62.	17.0	B	13.6	4.4
14	3	2600.	0.	552.	3164.	0.	552.	3164.	6032.	68.	0.	0.	.52	60.	17.6	B	20.5	4.4
15	2	2010.	0.	0.	2612.	0.	0.	2612.	3900.	0.	0.	0.	.67	53.	24.5	C	14.8	4.1
16	3	6120.	328.	624.	2940.	328.	624.	4026.	6100.	0.	* 1848.	-1086.	.66	15.	88.0	F	13.7	5.5
17	2	1240.	0.	0.	2316.	0.	0.	3402.	4300.	0.	** 1240.	-1086.	.79	19.	90.4	F	14.9	4.4
18	2	930.	432.	0.	2748.	432.	0.	3834.	4100.	0.	** 930.	-1086.	.94	31.	62.1	F	21.7	2.8
19	2	5330.	116.	476.	2864.	116.	656.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	2388.	0.	0.	3294.	3800.	0.	0.	0.	.87	59.	28.1	D	22.0	2.9
21	2	1660.	372.	676.	2760.	372.	897.	3666.	4202.	98.	0.	0.	.87	58.	31.4	D	22.1	2.8
22	2	2270.	0.	0.	2084.	0.	0.	2768.	4400.	0.	0.	0.	.63	62.	22.3	C	20.6	4.4
23	2	3040.	72.	320.	2156.	72.	421.	2840.	4100.	0.	0.	0.	.69	62.	22.9	C	20.6	4.4
24	2	2190.	0.	0.	1836.	0.	0.	2419.	4200.	0.	0.	0.	.58	65.	18.6	C	19.2	6.1
25	3	2400.	68.	1904.	1904.	68.	2487.	2487.	6150.	0.	0.	0.	.40	65.	12.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 41.	30.1		18.2	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	209. VEH-HRS	246. PASS-HRS	6969. VEH-HRS	8224. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	209. VEH-HRS	246. PASS-HRS	6970. VEH-HRS	8224. PASS-HRS
TOTAL TRAV DISTANCE =	8535. VEH-MI.	10071. PASS-MI.	209470. VEH-MI.	247175. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		30. MPH.	
AVERAGE DENSITY =	30. VPMPL		46. VPMPL	
TOTAL FUEL =	468. GALLONS		12142. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		844. KILOGRAMS	

QUEUE CLEAR SECTION 18 FT= 904

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1296.	0.	1296.	1296.	0.	1296.	3850.	0.	0.	0.	.34	50.	13.0	B	17.4	2.3
2	2	2070.	452.	0.	1748.	452.	0.	1748.	3850.	0.	0.	0.	.45	50.	17.5	B	15.9	2.3
3	3	2300.	1312.	308.	3060.	1312.	308.	3060.	5942.	158.	0.	0.	.52	55.	18.5	C	14.0	2.4
4	3	1020.	0.	0.	2752.	0.	0.	2752.	6100.	0.	0.	0.	.45	62.	14.8	B	19.9	4.8
5	3	710.	92.	0.	2844.	92.	0.	2844.	6100.	0.	0.	0.	.47	62.	15.3	B	16.1	4.4
6	3	3820.	352.	612.	3196.	352.	612.	3196.	6150.	0.	0.	0.	.52	62.	17.2	B	17.1	4.8
7	2	1220.	0.	0.	2584.	0.	0.	2584.	4400.	0.	0.	0.	.59	62.	20.8	C	18.2	4.4
8	3	4810.	432.	624.	3016.	432.	624.	3016.	6100.	0.	0.	0.	.49	62.	16.2	B	20.6	4.4
9	2	1370.	0.	0.	2392.	0.	0.	2392.	4000.	0.	0.	0.	.60	62.	19.3	C	23.6	4.4
10	2	660.	196.	0.	2588.	196.	0.	2588.	4384.	16.	0.	0.	.59	62.	20.9	C	23.6	4.4
11	3	790.	652.	580.	3240.	652.	580.	3240.	5616.	484.	0.	0.	.58	62.	17.4	B	30.0	4.4
12	2	1460.	0.	0.	2660.	0.	0.	2660.	4100.	0.	0.	0.	.65	62.	21.5	C	20.6	4.4
13	3	1400.	320.	0.	2980.	320.	0.	2980.	6044.	56.	0.	0.	.49	62.	16.0	B	13.6	4.4
14	3	2600.	0.	508.	2980.	0.	508.	2980.	6044.	56.	0.	0.	.49	62.	16.0	B	20.6	4.4
15	2	2010.	0.	0.	2472.	0.	0.	2472.	3900.	0.	0.	0.	.63	62.	19.9	C	14.7	4.4
16	3	6120.	372.	616.	2844.	372.	616.	2844.	6100.	0.	0.	0.	.47	36.	26.2	D	16.8	4.6
17	2	1240.	0.	0.	2228.	0.	0.	2228.	4300.	0.	0.	0.	.52	14.	79.6	F	13.3	5.6
18	2	930.	288.	0.	2516.	288.	0.	3146.	4100.	0.	0.	-630.	.77	17.	90.2	F	17.3	4.7
19	2	5330.	88.	500.	2604.	88.	621.	3234.	3950.	0.	0.	0.	.82	61.	26.7	D	21.3	3.5
20	2	2830.	0.	0.	2104.	0.	0.	2613.	3800.	0.	0.	0.	.69	61.	21.4	C	21.1	3.8
21	2	1660.	356.	592.	2460.	356.	715.	2969.	4259.	41.	0.	0.	.70	61.	24.3	C	21.1	3.8
22	2	2270.	0.	0.	1868.	0.	0.	2254.	4400.	0.	0.	0.	.51	62.	18.2	C	20.6	4.4
23	2	3040.	92.	348.	1960.	92.	417.	2346.	4100.	0.	0.	0.	.57	62.	18.9	C	20.6	4.4
24	2	2190.	0.	0.	1612.	0.	0.	1929.	4200.	0.	0.	0.	.46	65.	14.8	B	19.2	6.1
25	3	2400.	40.	1652.	1652.	40.	1969.	1969.	6150.	0.	0.	0.	.32	65.	10.1	A	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 0.82	LOWEST LOS = F	AVG = 50.	21.2		18.4	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 22 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	147. VEH-HRS	174. PASS-HRS	7117. VEH-HRS	8398. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	147. VEH-HRS	174. PASS-HRS	7117. VEH-HRS	8398. PASS-HRS
TOTAL TRAV DISTANCE =	7423. VEH-MI.	8759. PASS-MI.	216893. VEH-MI.	255933. PASS-MI.
AVERAGE SYSTEM SPEED =	50. MPH.		30. MPH.	
AVERAGE DENSITY =	21. VPMPL		45. VPMPL	
TOTAL FUEL =	403. GALLONS		12546. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		875. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1228.	0.	1228.	1228.	0.	1228.	3850.	0.	0.	0.	.32	50.	12.3	B	17.4	2.3
2	2	2070.	444.	0.	1672.	444.	0.	1672.	3850.	0.	0.	0.	.43	50.	16.7	B	15.9	2.3
3	3	2300.	1324.	320.	2996.	1324.	320.	2996.	5938.	162.	0.	0.	.50	55.	18.2	C	14.0	2.4
4	3	1020.	0.	0.	2676.	0.	0.	2676.	6100.	0.	0.	0.	.44	62.	14.4	B	19.9	4.8
5	3	710.	104.	0.	2780.	104.	0.	2780.	6100.	0.	0.	0.	.46	62.	14.9	B	16.1	4.4
6	3	3820.	248.	592.	3028.	248.	592.	3028.	6150.	0.	0.	0.	.49	62.	16.3	B	17.1	4.8
7	2	1220.	0.	0.	2436.	0.	0.	2436.	4400.	0.	0.	0.	.55	62.	19.6	C	18.2	4.4
8	3	4810.	396.	712.	2832.	396.	712.	2832.	6100.	0.	0.	0.	.46	62.	15.2	B	20.6	4.4
9	2	1370.	0.	0.	2120.	0.	0.	2120.	4000.	0.	0.	0.	.53	62.	17.1	B	23.6	4.4
10	2	660.	212.	0.	2332.	212.	0.	2332.	4378.	22.	0.	0.	.53	62.	18.8	C	23.6	4.4
11	3	790.	532.	628.	2864.	532.	628.	2864.	5658.	442.	0.	0.	.51	62.	15.4	B	30.0	4.4
12	2	1460.	0.	0.	2236.	0.	0.	2236.	4100.	0.	0.	0.	.55	62.	18.0	C	20.6	4.4
13	3	1400.	296.	0.	2532.	296.	0.	2532.	6059.	41.	0.	0.	.42	62.	13.6	B	13.6	4.4
14	3	2600.	0.	420.	2532.	0.	420.	2532.	6059.	41.	0.	0.	.42	62.	13.6	B	20.6	4.4
15	2	2010.	0.	0.	2112.	0.	0.	2112.	3900.	0.	0.	0.	.54	62.	17.0	B	14.7	4.4
16	3	6120.	288.	544.	2400.	288.	544.	2400.	6100.	0.	0.	0.	.39	62.	12.9	B	18.2	4.4
17	2	1240.	0.	0.	1856.	0.	0.	1856.	4300.	0.	0.	0.	.43	62.	15.0	B	18.2	4.4
18	2	930.	180.	0.	2036.	180.	0.	2036.	4100.	0.	0.	0.	.50	62.	16.4	B	20.6	4.4
19	2	5330.	72.	420.	2108.	72.	420.	2108.	3950.	0.	0.	0.	.53	62.	17.0	B	20.6	4.4
20	2	2830.	0.	0.	1688.	0.	0.	1688.	3800.	0.	0.	0.	.44	61.	13.8	B	21.1	3.8
21	2	1660.	276.	440.	1964.	276.	440.	1964.	4300.	0.	0.	0.	.46	61.	16.1	B	21.1	3.8
22	2	2270.	0.	0.	1524.	0.	0.	1524.	4400.	0.	0.	0.	.35	62.	12.3	B	20.6	4.4
23	2	3040.	84.	308.	1608.	84.	308.	1608.	4100.	0.	0.	0.	.39	62.	13.0	B	20.6	4.4
24	2	2190.	0.	0.	1300.	0.	0.	1300.	4200.	0.	0.	0.	.31	65.	10.0	A	19.2	6.1
25	3	2400.	32.	1332.	1332.	32.	1332.	1332.	6150.	0.	0.	0.	.22	65.	6.8	A	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 0.55 LOWEST LOS = C AVG = 60. 14.5 18.5 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	100. VEH-HRS	118. PASS-HRS	7217. VEH-HRS	8516. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	100. VEH-HRS	118. PASS-HRS	7217. VEH-HRS	8516. PASS-HRS
TOTAL TRAV DISTANCE =	6053. VEH-MI.	7143. PASS-MI.	222946. VEH-MI.	263076. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		31. MPH.	
AVERAGE DENSITY =	14. VPMPL		43. VPMPL	
TOTAL FUEL =	326. GALLONS		12872. GALLONS	
TOTAL EMISSIONS =	25. KILOGRAMS		900. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	185.	219.	0.	0.	185.	219.	10587.	12493.	57.1	551.	1.	27.	9.	14:00
2	212.	250.	0.	0.	212.	250.	11132.	13136.	52.6	584.	2.	28.	9.	14:15
3	221.	261.	0.	0.	221.	261.	10625.	12538.	48.0	566.	2.	28.	9.	14:30
4	260.	307.	0.	0.	260.	307.	11231.	13252.	43.2	604.	2.	29.	9.	14:45
5	261.	308.	0.	0.	261.	308.	10117.	11938.	38.7	558.	2.	28.	8.	15:00
6	276.	326.	0.	0.	276.	326.	10154.	11981.	36.7	565.	2.	29.	8.	15:15
7	288.	339.	0.	0.	288.	339.	9938.	11727.	34.5	560.	2.	29.	8.	15:30
8	321.	379.	0.	0.	321.	379.	10571.	12473.	32.9	605.	2.	31.	9.	15:45
9	354.	417.	0.	0.	354.	417.	10067.	11879.	28.5	592.	2.	31.	8.	16:00
10	398.	469.	0.	0.	398.	469.	10126.	11949.	25.5	615.	3.	32.	8.	16:15
11	437.	516.	0.	0.	437.	516.	9726.	11477.	22.3	612.	3.	32.	8.	16:30
12	455.	537.	0.	0.	455.	537.	9850.	11623.	21.6	623.	3.	32.	8.	16:45
13	453.	535.	0.	0.	453.	535.	9173.	10825.	20.2	588.	3.	31.	7.	17:00
14	446.	526.	0.	0.	446.	526.	9502.	11212.	21.3	602.	3.	32.	7.	17:15
15	443.	523.	0.	0.	443.	523.	9276.	10945.	20.9	590.	3.	31.	7.	17:30
16	421.	497.	0.	0.	421.	497.	9930.	11717.	23.6	610.	3.	32.	8.	17:45
17	385.	454.	0.	0.	385.	454.	9822.	11590.	25.5	585.	3.	31.	8.	18:00
18	359.	423.	0.	0.	359.	423.	9796.	11559.	27.3	574.	3.	31.	8.	18:15
19	313.	369.	0.	0.	313.	369.	9981.	11778.	31.9	565.	2.	30.	8.	18:30
20	272.	321.	0.	0.	272.	321.	9332.	11011.	34.3	526.	2.	28.	7.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	209.	246.	0.	0.	209.	246.	8535.	10071.	40.9	468.	2.	25.	7.	19:00
22	147.	174.	0.	0.	147.	174.	7423.	8759.	50.5	403.	1.	24.	6.	19:15
23	100.	118.	0.	0.	100.	118.	6053.	7143.	60.4	326.	1.	19.	5.	19:30
TOTAL	7217.	8516.	0.	0.	7217.	8516.	222946.	263076.	30.9	12872.	51.	670.	179.	

Existing (2019) plus Final Build
(Aux Lanes and BOS)
Northbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2516.	28.	2516.	2516.	28.	2516.	4400.	0.	0.	0.	.57	62.	20.3	C	13.6	4.8
2	2	1970.	0.	0.	2488.	0.	0.	2488.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
3	2	1830.	180.	40.	2668.	180.	40.	2668.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
4	2	2010.	0.	0.	2628.	0.	0.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
5	2	2445.	320.	116.	2948.	320.	116.	2948.	4100.	0.	0.	0.	.72	62.	23.8	C	13.6	4.8
6	2	1890.	0.	0.	2832.	0.	0.	2832.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
7	2	5320.	400.	136.	3232.	400.	136.	3232.	4100.	0.	0.	0.	.79	61.	26.4	D	13.8	4.3
8	2	880.	0.	0.	3096.	0.	0.	3096.	3900.	0.	0.	0.	.79	61.	25.3	C	15.2	4.3
9	2	1125.	88.	0.	3184.	88.	0.	3184.	3900.	0.	0.	0.	.82	61.	26.2	D	20.6	4.0
10	3	6320.	252.	88.	3436.	252.	88.	3436.	5599.	1.	0.	0.	.61	62.	18.5	C	19.9	4.8
11	2	2050.	0.	0.	3348.	0.	0.	3348.	4100.	0.	0.	0.	.82	61.	27.6	D	20.6	4.0
12	3	2560.	236.	0.	3584.	236.	0.	3584.	5588.	12.	0.	0.	.64	62.	19.3	C	17.2	4.8
13	3	1400.	0.	180.	3584.	0.	180.	3584.	5588.	12.	0.	0.	.64	62.	19.3	C	32.3	4.8
14	2	1320.	0.	0.	3404.	0.	0.	3404.	4400.	0.	0.	0.	.77	61.	27.7	D	15.1	4.5
15	3	540.	396.	592.	3800.	396.	592.	3800.	5264.	336.	0.	0.	.72	62.	20.4	C	12.6	4.8
16	2	1230.	0.	0.	3208.	0.	0.	3208.	4400.	0.	0.	0.	.73	62.	25.9	C	20.0	4.7
17	2	890.	420.	0.	3628.	420.	0.	3628.	4399.	1.	0.	0.	.82	60.	30.0	D	20.7	3.9
18	3	4840.	76.	472.	3704.	76.	472.	3704.	5571.	29.	0.	0.	.66	62.	19.9	C	17.2	4.8
19	2	530.	0.	0.	3232.	0.	0.	3232.	3800.	0.	0.	0.	.85	60.	27.1	D	21.0	3.6
20	2	1040.	504.	0.	3736.	504.	0.	3736.	4392.	8.	0.	0.	.85	60.	31.3	D	21.0	3.6
21	3	2810.	332.	296.	4068.	332.	296.	4068.	5575.	25.	0.	0.	.73	62.	21.9	C	24.1	4.8
22	2	1850.	0.	0.	3772.	0.	0.	3772.	4400.	0.	0.	0.	.86	60.	31.7	D	18.1	3.5
23	3	2390.	212.	200.	3984.	212.	200.	3984.	5559.	41.	0.	0.	.72	62.	21.4	C	24.1	4.8
24	3	960.	0.	1980.	3784.	0.	1500.	3784.	5593.	7.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	1804.	1804.	0.	1804.	1804.	3600.	0.	0.	0.	.50	62.	14.5	B	19.9	4.8
TOTAL		62500. =	11.8 MILES						MAX(V/C) = 0.86		LOWEST LOS = D		AVG = 62.		22.2		16.7	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	152. VEH-HRS	172. PASS-HRS	152. VEH-HRS	172. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	15. VEH-HRS	17. PASS-HRS	15. VEH-HRS	17. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	167. VEH-HRS	189. PASS-HRS	167. VEH-HRS	189. PASS-HRS
TOTAL TRAV DISTANCE =	9360. VEH-MI.	10596. PASS-MI.	9360. VEH-MI.	10596. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		22. VPMPL	
TOTAL FUEL =	567. GALLONS		567. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		44. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	120.	15.00	5.68	0.09	0.54	0.09	0.72

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3204.	24.	3204.	3204.	24.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	13.6	4.7
2	2	1970.	0.	0.	3180.	0.	0.	3180.	4100.	0.	0.	0.	.78	61.	25.9	C	13.7	4.4
3	2	1830.	204.	56.	3384.	204.	56.	3384.	4100.	0.	0.	0.	.83	60.	28.0	D	14.0	3.9
4	2	2010.	0.	0.	3328.	0.	0.	3328.	4100.	0.	0.	0.	.81	61.	27.4	D	13.9	4.1
5	2	2445.	436.	140.	3764.	436.	140.	3764.	4100.	0.	0.	0.	.92	57.	33.0	D	14.7	2.9
6	2	1890.	0.	0.	3624.	0.	0.	3624.	4100.	0.	0.	0.	.88	59.	31.0	D	14.4	3.3
7	2	5320.	404.	188.	4028.	404.	188.	3968.	4100.	0.	* 1318.	60.	.97	51.	38.9	F	15.4	2.4
8	2	880.	0.	0.	3840.	0.	0.	3780.	3900.	0.	** 880.	60.	.97	38.	50.2	F	15.4	2.7
9	2	1125.	120.	0.	3960.	120.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	296.	104.	4256.	296.	103.	4196.	5598.	2.	0.	0.	.75	62.	22.6	C	19.9	4.8
11	2	2050.	0.	0.	4152.	0.	0.	4093.	4100.	0.	0.	0.	.99	52.	39.6	E	23.0	2.3
12	3	2560.	268.	0.	4420.	268.	0.	4361.	5588.	12.	0.	0.	.78	62.	23.4	C	17.2	4.8
13	3	1400.	0.	188.	4420.	0.	185.	4361.	5588.	12.	0.	0.	.78	62.	23.4	C	32.3	4.8
14	2	1320.	0.	0.	4232.	0.	0.	4176.	4400.	0.	0.	0.	.95	55.	37.8	E	16.6	2.4
15	3	540.	396.	796.	4628.	396.	786.	4572.	5272.	328.	0.	0.	.87	62.	24.6	C	12.6	4.8
16	2	1230.	0.	0.	3832.	0.	0.	3785.	4400.	0.	0.	0.	.86	59.	31.9	D	21.1	3.5
17	2	890.	452.	0.	4284.	452.	0.	4237.	4396.	4.	0.	0.	.96	54.	39.1	E	22.5	2.4
18	3	4840.	92.	604.	4376.	92.	598.	4329.	5557.	43.	0.	0.	.78	62.	23.3	C	17.2	4.8
19	2	530.	0.	0.	3772.	0.	0.	3732.	3800.	0.	0.	0.	.98	53.	35.2	E	22.7	2.4
20	2	1040.	488.	0.	4260.	488.	0.	4220.	4390.	10.	0.	0.	.96	54.	38.8	E	22.4	2.4
21	3	2810.	388.	392.	4648.	388.	389.	4608.	5571.	29.	0.	0.	.83	62.	24.8	C	24.1	4.8
22	2	1850.	0.	0.	4256.	0.	0.	4219.	4400.	0.	0.	0.	.96	55.	38.7	E	19.4	2.4
23	3	2390.	204.	312.	4460.	204.	309.	4423.	5550.	50.	0.	0.	.80	62.	23.8	C	24.1	4.8
24	3	960.	0.	1948.	4148.	0.	1500.	4114.	5585.	15.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2200.	2200.	0.	2182.	2182.	3600.	0.	0.	0.	.61	62.	17.6	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	28.7		17.1	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	194. VEH-HRS	220. PASS-HRS	346. VEH-HRS	392. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	43. VEH-HRS	49. PASS-HRS	58. VEH-HRS	66. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	238. VEH-HRS	269. PASS-HRS	405. VEH-HRS	458. PASS-HRS
TOTAL TRAV DISTANCE =	11359. VEH-MI.	12858. PASS-MI.	20719. VEH-MI.	23454. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		60. MPH.	
AVERAGE DENSITY =	29. VPMPL		25. VPMPL	
TOTAL FUEL =	681. GALLONS		1248. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		91. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	228.	43.50	16.48	0.25	1.56	0.27	2.08

```
QUEUE COLLISION IN SECTION   7 T2 =0.174
QUEUE COLLISION IN SECTION   5 T2 =0.182
QUEUE COLLISION IN SECTION   3 T2 =0.213
QUEUE COLLISION IN SECTION   2 T2 =0.193
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	4264.	36.	4264.	4264.	36.	3144.	4400.	0.	* 3505.	1120.	.71	50.	31.6	F	15.1	2.5
2	2	1970.	0.	0.	4228.	0.	0.	3108.	4100.	0.	** 1970.	992.	.76	34.	45.6	F	14.4	3.1
3	2	1830.	276.	240.	4504.	276.	219.	3384.	4100.	0.	** 1830.	716.	.83	40.	42.1	F	14.8	2.7
4	2	2010.	0.	0.	4264.	0.	0.	3165.	4100.	0.	** 2010.	716.	.77	31.	51.2	F	13.5	3.5
5	2	2445.	480.	168.	4744.	480.	145.	3645.	4100.	0.	** 2445.	455.	.89	38.	47.9	F	14.6	2.8
6	2	1890.	0.	0.	4576.	0.	0.	3500.	4100.	0.	** 1890.	455.	.85	30.	58.8	F	13.5	3.4
7	2	5320.	444.	260.	5020.	444.	212.	3944.	4100.	0.	** 5320.	156.	.96	38.	52.4	F	14.4	2.8
8	2	880.	0.	0.	4760.	0.	0.	3732.	3900.	0.	** 880.	156.	.96	34.	55.6	F	14.9	3.0
9	2	1125.	168.	0.	4928.	168.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	288.	156.	5216.	288.	125.	4188.	5597.	3.	0.	0.	.75	62.	22.5	C	19.9	4.8
11	2	2050.	0.	0.	5060.	0.	0.	4063.	4100.	0.	0.	0.	.99	52.	38.9	E	22.9	2.3
12	3	2560.	336.	0.	5396.	336.	0.	4399.	5584.	16.	0.	0.	.79	62.	23.7	C	17.2	4.8
13	3	1400.	0.	260.	5396.	0.	212.	4399.	5584.	16.	0.	0.	.79	62.	23.7	C	32.3	4.8
14	2	1320.	0.	0.	5136.	0.	0.	4187.	4400.	0.	0.	0.	.95	55.	38.1	E	16.7	2.4
15	3	540.	456.	1056.	5592.	456.	877.	4643.	5232.	368.	0.	0.	.89	58.	26.5	D	13.3	3.2
16	2	1230.	0.	0.	4536.	0.	0.	3767.	4400.	0.	0.	0.	.86	60.	31.6	D	21.0	3.5
17	2	890.	460.	0.	4996.	460.	0.	4227.	4393.	7.	0.	0.	.96	54.	38.9	E	22.5	2.4
18	3	4840.	76.	764.	5072.	76.	648.	4303.	5548.	52.	0.	0.	.78	62.	23.1	C	17.2	4.8
19	2	530.	0.	0.	4308.	0.	0.	3655.	3800.	0.	0.	0.	.96	54.	33.6	D	22.4	2.4
20	2	1040.	492.	0.	4800.	492.	0.	4147.	4385.	15.	0.	0.	.95	55.	37.4	E	22.2	2.5
21	3	2810.	448.	596.	5248.	448.	522.	4595.	5559.	41.	0.	0.	.83	62.	24.7	C	24.1	4.8
22	2	1850.	0.	0.	4652.	0.	0.	4073.	4400.	0.	0.	0.	.93	57.	36.0	E	18.9	2.8
23	3	2390.	180.	312.	4832.	180.	275.	4253.	5549.	51.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	2136.	4520.	0.	1500.	3978.	5583.	17.	0.	0.	.71	62.	21.4	C	17.2	4.8
25	2	1400.	0.	2384.	2384.	0.	2098.	2098.	3600.	0.	0.	0.	.58	62.	16.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 49.	34.1		17.2	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	245. VEH-HRS	278. PASS-HRS	591. VEH-HRS	669. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	69. VEH-HRS	78. PASS-HRS	127. VEH-HRS	144. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	314. VEH-HRS	356. PASS-HRS	719. VEH-HRS	814. PASS-HRS
TOTAL TRAV DISTANCE =	12061. VEH-MI.	13653. PASS-MI.	32780. VEH-MI.	37107. PASS-MI.
AVERAGE SYSTEM SPEED =	38. MPH.		55. MPH.	
AVERAGE DENSITY =	34. VPMPL		28. VPMPL	
TOTAL FUEL =	729. GALLONS		1977. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		136. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	323.	68.86	26.08	0.40	2.46	0.43	3.29

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	4508.	68.	4508.	4400.	66.	3165.	4400.	0.	**12900.	1235.	.72	20.	80.6	F	12.4	4.6
2	2	1970.	0.	0.	4440.	0.	0.	3099.	4100.	0.	** 1970.	1001.	.76	17.	92.1	F	11.4	5.3
3	2	1830.	368.	504.	4808.	368.	415.	3467.	3952.	148.	** 1830.	486.	.88	25.	69.2	F	12.9	3.8
4	2	2010.	0.	0.	4304.	0.	0.	3052.	4100.	0.	B* 2010.	486.	.74	16.	94.1	F	11.4	5.4
5	2	2445.	872.	236.	5176.	872.	183.	3722.	4004.	96.	** 2445.	282.	.93	30.	61.6	F	13.7	3.2
6	2	1890.	0.	0.	4940.	0.	0.	3539.	4100.	0.	** 1890.	282.	.86	24.	74.2	F	12.6	4.0
7	2	5320.	468.	344.	5408.	468.	260.	4007.	4100.	0.	** 5320.	93.	.98	36.	55.0	F	14.1	2.8
8	2	880.	0.	0.	5064.	0.	0.	3747.	3900.	0.	** 880.	93.	.96	34.	55.0	F	15.0	2.9
9	2	1125.	152.	0.	5216.	152.	0.	3899.	3899.	1.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	328.	232.	5544.	328.	177.	4227.	5594.	6.	0.	0.	.76	62.	22.7	C	19.9	4.8
11	2	2050.	0.	0.	5312.	0.	0.	4050.	4100.	0.	0.	0.	.99	53.	38.6	E	22.8	2.4
12	3	2560.	392.	0.	5704.	392.	0.	4442.	5568.	32.	0.	0.	.80	62.	23.9	C	17.2	4.8
13	3	1400.	0.	440.	5704.	0.	343.	4442.	5568.	32.	0.	0.	.80	62.	23.9	C	32.3	4.8
14	2	1320.	0.	0.	5264.	0.	0.	4100.	4400.	0.	0.	0.	.93	56.	36.5	E	16.4	2.7
15	3	540.	520.	1284.	5784.	520.	1025.	4620.	5196.	404.	0.	0.	.89	62.	24.8	C	12.6	4.8
16	2	1230.	0.	0.	4500.	0.	0.	3595.	4400.	0.	0.	0.	.82	61.	29.6	D	20.6	4.0
17	2	890.	460.	0.	4960.	460.	0.	4055.	4393.	7.	0.	0.	.92	57.	35.8	E	21.8	2.8
18	3	4840.	88.	868.	5048.	88.	712.	4143.	5539.	61.	0.	0.	.75	62.	22.3	C	17.2	4.8
19	2	530.	0.	0.	4180.	0.	0.	3431.	3800.	0.	0.	0.	.90	58.	29.7	D	21.5	3.1
20	2	1040.	536.	0.	4716.	536.	0.	3967.	4378.	22.	0.	0.	.91	58.	34.5	D	21.6	3.0
21	3	2810.	476.	780.	5192.	476.	667.	4443.	5521.	79.	0.	0.	.80	62.	23.9	C	24.1	4.8
22	2	1850.	0.	0.	4412.	0.	0.	3775.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	232.	188.	4644.	232.	163.	4007.	5534.	66.	0.	0.	.72	62.	21.5	C	24.1	4.8
24	3	960.	0.	2292.	4456.	0.	1500.	3844.	5580.	20.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2164.	2164.	0.	1867.	1867.	3600.	0.	0.	0.	.52	62.	15.1	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 35.	48.6		16.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	321. VEH-HRS	364. PASS-HRS	913. VEH-HRS	1033. PASS-HRS
FREEWAY MERGE DELAY =	6. VEH-HRS	7. PASS-HRS	6. VEH-HRS	7. PASS-HRS
ON-RAMP MRG/CAP DELAY =	42. VEH-HRS	48. PASS-HRS	42. VEH-HRS	48. PASS-HRS
OFF-RAMP DELAY =	96. VEH-HRS	108. PASS-HRS	223. VEH-HRS	252. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	465. VEH-HRS	527. PASS-HRS	1184. VEH-HRS	1340. PASS-HRS
TOTAL TRAV DISTANCE =	11283. VEH-MI.	12772. PASS-MI.	44063. VEH-MI.	49880. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		48. MPH.	
AVERAGE DENSITY =	49. VPMPL		33. VPMPL	
TOTAL FUEL =	759. GALLONS		2736. GALLONS	
TOTAL EMISSIONS =	54. KILOGRAMS		190. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	336.	41.96	15.89	0.24	1.50	0.26	2.01
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	336.	41.96	15.89	0.24	1.50	0.26	2.01
ON-RAMP	3	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	51.	6.32	2.39	0.04	0.23	0.04	0.30
		TOTAL	51.	6.32	2.39	0.04	0.23	0.04	0.30
OFF-RAMP	11	OUTPUT POINT	442.	95.63	36.22	0.56	3.42	0.60	4.58

```
QUEUE SPLIT SECTION  7
QUEUE CLEAR SECTION   8 T2 =0.228
QUEUE OUT OF SECTION 1
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2604.	92.	2604.	2604.	92.	2414.	4400.	0.	**12900.	190.	.55	9.	136.1	F	8.7	7.5
2	2	1970.	0.	0.	2512.	0.	0.	2322.	4100.	0.	** 1970.	190.	.57	9.	123.9	F	9.1	7.2
3	2	1830.	620.	684.	3132.	620.	684.	2942.	3689.	411.	** 1830.	190.	.80	19.	76.6	F	11.8	4.8
4	2	2010.	0.	0.	2448.	0.	0.	2258.	4100.	0.	B* 2010.	190.	.55	9.	126.5	F	8.8	7.5
5	2	2445.	1716.	340.	4164.	1500.	318.	3854.	3900.	200.	** 2445.	46.	.99	38.	50.6	F	14.2	2.7
6	2	1890.	0.	0.	3824.	0.	0.	3536.	4100.	0.	** 1890.	46.	.86	24.	74.3	F	12.6	4.0
7	2	5320.	564.	444.	4388.	564.	415.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
8	2	880.	0.	0.	3944.	0.	0.	3718.	3900.	0.	0.	-33.	.95	42.	43.8	E	15.8	2.7
9	2	1125.	156.	0.	4100.	156.	0.	3874.	3900.	0.	0.	0.	.99	52.	37.2	E	22.9	2.3
10	3	6320.	452.	280.	4552.	452.	266.	4326.	5596.	4.	0.	0.	.77	62.	23.3	C	19.9	4.8
11	2	2050.	0.	0.	4272.	0.	0.	4060.	4100.	0.	0.	0.	.99	52.	38.8	E	22.8	2.3
12	3	2560.	424.	0.	4696.	424.	0.	4484.	5560.	40.	0.	0.	.81	62.	24.1	C	17.2	4.8
13	3	1400.	0.	444.	4696.	0.	424.	4484.	5560.	40.	0.	0.	.81	62.	24.1	C	32.3	4.8
14	2	1320.	0.	0.	4252.	0.	0.	4060.	4400.	0.	0.	0.	.92	57.	35.8	E	16.3	2.8
15	3	540.	712.	1236.	4964.	712.	1188.	4772.	5064.	536.	0.	0.	.94	56.	28.6	D	13.9	2.5
16	2	1230.	0.	0.	3728.	0.	0.	3584.	4400.	0.	0.	0.	.81	61.	29.5	D	20.6	4.0
17	2	890.	536.	0.	4264.	536.	0.	4120.	4397.	3.	0.	0.	.94	56.	36.8	E	22.1	2.6
18	3	4840.	124.	832.	4388.	124.	805.	4244.	5541.	59.	0.	0.	.77	62.	22.8	C	17.2	4.8
19	2	530.	0.	0.	3556.	0.	0.	3439.	3800.	0.	0.	0.	.91	58.	29.9	D	21.6	3.0
20	2	1040.	648.	0.	4204.	648.	0.	4087.	4376.	24.	0.	0.	.93	56.	36.4	E	22.0	2.7
21	3	2810.	564.	748.	4768.	564.	730.	4651.	5480.	120.	0.	0.	.85	60.	25.9	C	25.4	3.6
22	2	1850.	0.	0.	4020.	0.	0.	3922.	4400.	0.	0.	0.	.89	58.	33.7	D	18.4	3.2
23	3	2390.	308.	176.	4328.	308.	172.	4230.	5525.	75.	0.	0.	.77	62.	22.7	C	24.1	4.8
24	3	960.	0.	1848.	4152.	0.	1500.	4058.	5575.	25.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2304.	2304.	0.	2252.	2252.	3600.	0.	0.	0.	.63	62.	18.2	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 28.	60.9		15.3	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	385. VEH-HRS	436. PASS-HRS	1297. VEH-HRS	1469. PASS-HRS
FREEWAY MERGE DELAY =	3. VEH-HRS	4. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	55. VEH-HRS	62. PASS-HRS	97. VEH-HRS	109. PASS-HRS
OFF-RAMP DELAY =	120. VEH-HRS	136. PASS-HRS	343. VEH-HRS	388. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	563. VEH-HRS	637. PASS-HRS	1747. VEH-HRS	1977. PASS-HRS
TOTAL TRAV DISTANCE =	10639. VEH-MI.	12043. PASS-MI.	54702. VEH-MI.	61923. PASS-MI.
AVERAGE SYSTEM SPEED =	19. MPH.		42. MPH.	
AVERAGE DENSITY =	61. VPMPL		39. VPMPL	
TOTAL FUEL =	763. GALLONS		3499. GALLONS	
TOTAL EMISSIONS =	56. KILOGRAMS		246. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	48.	47.91	18.15	0.28	1.71	0.30	2.29
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	48.	47.91	18.15	0.28	1.71	0.30	2.29
ON-RAMP	3	RAMP	54.	6.75	2.56	0.04	0.24	0.04	0.32
		FREEWAY	26.	3.29	1.25	0.02	0.12	0.02	0.16
		TOTAL	80.	10.04	3.80	0.06	0.36	0.06	0.48
OFF-RAMP	11	OUTPUT POINT	519.	120.10	45.49	0.70	4.30	0.75	5.75

QUEUE COLLISION IN SECTION 20 T2 =0.048
QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2616.	120.	2616.	2616.	120.	2148.	4400.	0.	**12900.	468.	.49	7.	147.0	F	7.7	8.3
2	2	1970.	0.	0.	2496.	0.	0.	2028.	4100.	0.	** 1970.	468.	.49	7.	135.9	F	7.8	8.3
3	2	1830.	724.	604.	3220.	724.	604.	2752.	3702.	398.	** 1830.	468.	.74	16.	85.1	F	11.4	5.5
4	2	2010.	0.	0.	2616.	0.	0.	2148.	4100.	0.	B* 2010.	468.	.52	8.	131.0	F	8.3	7.9
5	2	2445.	1544.	460.	4160.	1500.	416.	3664.	3812.	288.	** 2445.	148.	.96	34.	53.7	F	14.0	2.9
6	2	1890.	0.	0.	3700.	0.	0.	3248.	4100.	0.	** 1890.	148.	.79	19.	86.1	F	11.7	4.8
7	2	5320.	852.	600.	4552.	852.	535.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
8	2	880.	0.	0.	3952.	0.	0.	3565.	3900.	0.	0.	0.	.91	57.	31.2	D	16.2	2.9
9	2	1125.	216.	0.	4168.	216.	0.	3781.	3900.	0.	0.	0.	.97	54.	35.1	E	22.6	2.4
10	3	6320.	556.	376.	4724.	556.	343.	4337.	5591.	9.	0.	0.	.78	62.	23.3	C	19.9	4.8
11	2	2050.	0.	0.	4348.	0.	0.	3994.	4100.	0.	0.	0.	.97	54.	37.3	E	22.6	2.4
12	3	2560.	580.	0.	4928.	580.	0.	4229.	5564.	36.	* 693.	345.	.76	57.	24.7	F	17.0	4.8
13	3	1400.	0.	316.	4928.	0.	297.	4229.	5564.	36.	** 1400.	345.	.76	26.	53.6	F	29.3	5.0
14	2	1320.	0.	0.	4612.	0.	0.	3932.	4400.	0.	** 1320.	345.	.89	28.	70.1	F	14.3	3.5
15	3	540.	944.	1300.	5556.	944.	1142.	4876.	4876.	724.	0.	0.	1.00	52.	31.5	E	14.5	2.3
16	2	1230.	0.	0.	4256.	0.	0.	3734.	4400.	0.	0.	0.	.85	60.	31.2	D	21.0	3.6
17	2	890.	628.	0.	4884.	628.	0.	4362.	4391.	9.	0.	0.	.99	52.	41.9	E	22.9	2.3
18	3	4840.	168.	868.	5052.	168.	780.	4303.	5522.	78.	* 1437.	227.	.78	49.	29.4	F	16.7	4.8
19	2	530.	0.	0.	4184.	0.	0.	3523.	3800.	0.	** 530.	227.	.93	32.	54.3	F	21.0	3.1
20	2	1040.	696.	0.	4880.	696.	0.	4219.	4369.	31.	** 1040.	149.	.97	36.	58.7	F	21.7	2.8
21	3	2810.	864.	960.	5744.	864.	849.	5083.	5083.	517.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	4784.	0.	0.	4234.	4400.	0.	0.	0.	.96	54.	39.0	E	19.4	2.4
23	3	2390.	304.	196.	5088.	304.	175.	4538.	5529.	71.	0.	0.	.82	62.	24.4	C	24.1	4.8
24	3	960.	0.	1692.	4892.	0.	1500.	4363.	5573.	27.	0.	0.	.78	62.	23.5	C	17.2	4.8
25	2	1400.	0.	3200.	3200.	0.	2848.	2848.	3600.	0.	0.	0.	.79	62.	23.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 25.	67.4		15.0	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	430. VEH-HRS	487. PASS-HRS	1728. VEH-HRS	1956. PASS-HRS
FREEWAY MERGE DELAY =	3. VEH-HRS	3. PASS-HRS	12. VEH-HRS	14. PASS-HRS
ON-RAMP MRG/CAP DELAY =	35. VEH-HRS	40. PASS-HRS	132. VEH-HRS	150. PASS-HRS
OFF-RAMP DELAY =	130. VEH-HRS	147. PASS-HRS	473. VEH-HRS	536. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	599. VEH-HRS	678. PASS-HRS	2345. VEH-HRS	2655. PASS-HRS
TOTAL TRAV DISTANCE =	10622. VEH-MI.	12024. PASS-MI.	65325. VEH-MI.	73947. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		38. MPH.	
AVERAGE DENSITY =	67. VPMPL		44. VPMPL	
TOTAL FUEL =	771. GALLONS		4270. GALLONS	
TOTAL EMISSIONS =	56. KILOGRAMS		301. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	117.	20.58	7.79	0.12	0.74	0.13	0.98
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	117.	20.58	7.79	0.12	0.74	0.13	0.98
ON-RAMP	3	RAMP	65.	14.88	5.63	0.09	0.53	0.09	0.71
		FREEWAY	22.	2.78	1.05	0.02	0.10	0.02	0.13
		TOTAL	87.	17.66	6.69	0.10	0.63	0.11	0.84
OFF-RAMP	11	OUTPUT POINT	522.	130.13	49.29	0.76	4.66	0.81	6.23

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3352.	152.	3352.	3352.	152.	2546.	4400.	0.	**12900.	806.	.58	10.	130.7	F	9.5	7.0
2	2	1970.	0.	0.	3200.	0.	0.	2394.	4100.	0.	** 1970.	806.	.58	10.	120.9	F	9.6	6.9
3	2	1830.	444.	264.	3644.	444.	264.	2838.	4077.	23.	** 1830.	806.	.70	14.	101.6	F	10.8	6.0
4	2	2010.	0.	0.	3380.	0.	0.	2574.	4100.	0.	B* 2010.	806.	.63	11.	113.6	F	10.1	6.6
5	2	2445.	632.	356.	4012.	892.	351.	3549.	3905.	195.	** 2445.	356.	.91	28.	63.4	F	13.3	3.4
6	2	1890.	0.	0.	3656.	0.	0.	3198.	4100.	0.	B* 1890.	356.	.78	18.	88.1	F	11.6	5.0
7	2	5320.	1068.	720.	4724.	1068.	607.	4012.	4012.	88.	0.	0.	1.00	52.	38.9	E	15.7	2.3
8	2	880.	0.	0.	4004.	0.	0.	3405.	3900.	0.	0.	0.	.87	59.	28.9	D	15.8	3.4
9	2	1125.	212.	0.	4216.	212.	0.	3617.	3899.	1.	0.	0.	.93	56.	32.0	D	21.9	2.7
10	3	6320.	528.	436.	4744.	528.	379.	3540.	5588.	12.	* 778.	605.	.63	59.	20.1	F	19.8	4.8
11	2	2050.	0.	0.	4308.	0.	0.	3161.	4100.	0.	** 2050.	605.	.77	32.	48.7	F	19.7	3.6
12	3	2560.	724.	0.	5032.	724.	0.	3885.	5564.	36.	** 2560.	605.	.70	17.	78.2	F	13.4	5.7
13	3	1400.	0.	244.	5032.	0.	221.	3885.	5564.	36.	** 1400.	605.	.70	14.	92.1	F	22.9	5.9
14	2	1320.	0.	0.	4788.	0.	0.	3664.	4400.	0.	** 1320.	605.	.83	22.	85.1	F	13.0	4.3
15	3	540.	1108.	1492.	5896.	1108.	1205.	4772.	4772.	828.	0.	0.	1.00	52.	30.9	E	14.5	2.3
16	2	1230.	0.	0.	4404.	0.	0.	2857.	4400.	0.	B 468.	710.	.65	58.	24.8	F	20.4	4.1
17	2	890.	644.	0.	5048.	644.	0.	3481.	4389.	11.	** 890.	710.	.79	45.	38.9	F	21.6	2.7
18	3	4840.	148.	804.	5196.	148.	674.	3629.	5524.	76.	B* 4840.	710.	.66	17.	72.4	F	13.3	5.8
19	2	530.	0.	0.	4392.	0.	0.	2956.	3800.	0.	BB 530.	710.	.78	18.	82.0	F	16.9	5.0
20	2	1040.	728.	0.	5120.	728.	0.	3595.	4362.	38.	** 1040.	710.	.82	21.	85.9	F	18.0	4.4
21	3	2810.	1128.	1196.	6248.	1128.	902.	4723.	4723.	877.	0.	0.	1.00	52.	30.5	E	30.3	2.3
22	2	1850.	0.	0.	5052.	0.	0.	3820.	4400.	0.	0.	0.	.87	59.	32.3	D	18.2	3.4
23	3	2390.	364.	260.	5416.	364.	199.	4184.	5509.	91.	0.	0.	.76	62.	22.5	C	24.1	4.8
24	3	960.	0.	1904.	5156.	0.	1500.	3985.	5563.	37.	0.	0.	.72	62.	21.4	C	17.2	4.8
25	2	1400.	0.	3252.	3252.	0.	2514.	2514.	3600.	0.	0.	0.	.70	62.	20.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 22.	70.6		14.7	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	473. VEH-HRS	536. PASS-HRS	2201. VEH-HRS	2491. PASS-HRS
FREEWAY MERGE DELAY =	11. VEH-HRS	13. PASS-HRS	24. VEH-HRS	27. PASS-HRS
ON-RAMP MRG/CAP DELAY =	48. VEH-HRS	54. PASS-HRS	180. VEH-HRS	204. PASS-HRS
OFF-RAMP DELAY =	130. VEH-HRS	147. PASS-HRS	603. VEH-HRS	682. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	662. VEH-HRS	750. PASS-HRS	3008. VEH-HRS	3405. PASS-HRS
TOTAL TRAV DISTANCE =	10278. VEH-MI.	11635. PASS-MI.	75602. VEH-MI.	85582. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		34. MPH.	
AVERAGE DENSITY =	71. VPMPL		47. VPMPL	
TOTAL FUEL =	773. GALLONS		5043. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		359. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	201.	39.81	15.08	0.23	1.42	0.25	1.90
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	201.	39.81	15.08	0.23	1.42	0.25	1.90
ON-RAMP	3	RAMP	0.	8.13	3.08	0.05	0.29	0.05	0.39
		FREEWAY	2.	0.19	0.07	0.00	0.01	0.00	0.01
		TOTAL	2.	8.31	3.15	0.05	0.30	0.05	0.40
ON-RAMP	4	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	63.	7.92	3.00	0.05	0.28	0.05	0.38
		TOTAL	63.	7.92	3.00	0.05	0.28	0.05	0.38
ON-RAMP	9	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	5.	0.61	0.23	0.00	0.02	0.00	0.03
		TOTAL	5.	0.61	0.23	0.00	0.02	0.00	0.03
ON-RAMP	11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	22.	2.78	1.05	0.02	0.10	0.02	0.13
		TOTAL	22.	2.78	1.05	0.02	0.10	0.02	0.13
OFF-RAMP	11	OUTPUT POINT	515.	129.69	49.12	0.75	4.64	0.81	6.20

QUEUE COLLISION IN SECTION 15 T2 =0.063
QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3016.	196.	3016.	3016.	196.	2764.	4400.	0.	**12900.	252.	.63	11.	121.8	F	10.1	6.6
2	2	1970.	0.	0.	2820.	0.	0.	2568.	4100.	0.	** 1970.	252.	.63	11.	113.8	F	10.0	6.6
3	2	1830.	368.	252.	3188.	368.	252.	2936.	4100.	0.	** 1830.	252.	.72	15.	98.8	F	11.2	5.8
4	2	2010.	0.	0.	2936.	0.	0.	2684.	4100.	0.	** 2010.	252.	.65	12.	109.1	F	10.3	6.3
5	2	2445.	652.	340.	3588.	652.	341.	3342.	4045.	55.	** 2445.	252.	.83	21.	79.3	F	12.1	4.4
6	2	1890.	0.	0.	3248.	0.	0.	3001.	4100.	0.	B* 1890.	252.	.73	16.	96.1	F	11.3	5.6
7	2	5320.	972.	724.	4220.	972.	703.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
8	2	880.	0.	0.	3496.	0.	0.	3397.	3900.	0.	0.	0.	.87	59.	28.8	D	15.8	3.4
9	2	1125.	216.	0.	3712.	216.	0.	3613.	3900.	0.	0.	0.	.93	57.	32.0	D	21.9	2.8
10	3	6320.	464.	404.	4176.	464.	394.	2874.	5592.	8.	* 4549.	1203.	.51	24.	39.5	F	16.3	5.5
11	2	2050.	0.	0.	3772.	0.	0.	2479.	4100.	0.	** 2050.	1203.	.60	13.	92.1	F	14.7	6.0
12	3	2560.	824.	0.	4596.	824.	0.	3303.	5544.	56.	** 2560.	1203.	.60	12.	93.2	F	11.9	6.4
13	3	1400.	0.	312.	4596.	0.	306.	3303.	5544.	56.	** 1400.	1203.	.60	11.	96.5	F	19.4	6.5
14	2	1320.	0.	0.	4284.	0.	0.	2997.	4400.	0.	** 1320.	1203.	.68	15.	101.3	F	11.7	5.7
15	3	540.	1208.	1460.	5492.	1208.	1253.	4205.	4712.	888.	** 540.	507.	.89	30.	46.8	F	13.0	3.3
16	2	1230.	0.	0.	4032.	0.	0.	2953.	4400.	0.	** 1230.	507.	.67	14.	107.8	F	14.5	6.1
17	2	890.	508.	0.	4540.	508.	0.	3481.	4394.	6.	** 890.	507.	.79	19.	92.2	F	17.2	4.8
18	3	4840.	168.	740.	4708.	168.	653.	3649.	5543.	57.	** 4840.	507.	.66	12.	97.8	F	12.0	6.3
19	2	530.	0.	0.	3968.	0.	0.	2995.	3800.	0.	B* 530.	507.	.79	19.	80.4	F	17.1	4.9
20	2	1040.	724.	0.	4692.	724.	0.	3778.	4364.	36.	** 1040.	507.	.87	24.	78.5	F	19.0	3.9
21	3	2810.	1048.	1172.	5740.	1048.	986.	4826.	4826.	774.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4568.	0.	0.	3841.	4400.	0.	0.	0.	.87	59.	32.6	D	18.3	3.4
23	3	2390.	408.	308.	4976.	408.	263.	4249.	5494.	106.	0.	0.	.77	62.	22.8	C	24.1	4.8
24	3	960.	0.	1800.	4668.	0.	1500.	3986.	5562.	38.	0.	0.	.72	62.	21.4	C	17.2	4.8
25	2	1400.	0.	2868.	2868.	0.	2449.	2449.	3600.	0.	0.	0.	.68	62.	19.8	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 19.	78.1		13.9	5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	540. VEH-HRS	611. PASS-HRS	2741. VEH-HRS	3103. PASS-HRS
FREEWAY MERGE DELAY =	5. VEH-HRS	6. PASS-HRS	29. VEH-HRS	33. PASS-HRS
ON-RAMP MRG/CAP DELAY =	33. VEH-HRS	37. PASS-HRS	213. VEH-HRS	241. PASS-HRS
OFF-RAMP DELAY =	130. VEH-HRS	147. PASS-HRS	733. VEH-HRS	830. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	708. VEH-HRS	802. PASS-HRS	3716. VEH-HRS	4206. PASS-HRS
TOTAL TRAV DISTANCE =	10035. VEH-MI.	11360. PASS-MI.	85638. VEH-MI.	96942. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		31. MPH.	
AVERAGE DENSITY =	78. VPMPL		51. VPMPL	
TOTAL FUEL =	785. GALLONS		5828. GALLONS	
TOTAL EMISSIONS =	59. KILOGRAMS		418. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	63.	33.06	12.52	0.19	1.18	0.21	1.58
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	63.	33.06	12.52	0.19	1.18	0.21	1.58
ON-RAMP 4	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	32.	3.96	1.50	0.02	0.14	0.02	0.19
	TOTAL	32.	3.96	1.50	0.02	0.14	0.02	0.19
ON-RAMP 11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	7.	0.92	0.35	0.01	0.03	0.01	0.04
	TOTAL	7.	0.92	0.35	0.01	0.03	0.01	0.04
OFF-RAMP 11	OUTPUT POINT	524.	129.94	49.22	0.76	4.65	0.81	6.22

QUEUE COLLISION IN SECTION 7 T2 =0.226
QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3424.	196.	3424.	3424.	196.	3013.	4400.	0.	**12900.	411.	.68	13.	111.7	F	10.7	6.1
2	2	1970.	0.	0.	3228.	0.	0.	2817.	4100.	0.	** 1970.	411.	.69	14.	103.7	F	10.7	6.0
3	2	1830.	372.	308.	3600.	372.	308.	3189.	4086.	14.	** 1830.	411.	.78	18.	87.7	F	11.6	5.0
4	2	2010.	0.	0.	3292.	0.	0.	2881.	4100.	0.	** 2010.	411.	.70	14.	101.0	F	10.9	5.9
5	2	2445.	716.	492.	4008.	716.	476.	3597.	3878.	222.	** 2445.	281.	.93	30.	59.9	F	13.7	3.2
6	2	1890.	0.	0.	3516.	0.	0.	1806.	4100.	0.	** 1890.	1596.	.44	16.	54.9	F	11.3	5.3
7	2	5320.	852.	700.	4368.	852.	657.	2785.	4100.	0.	** 5320.	1315.	.68	31.	44.3	F	14.2	3.2
8	2	880.	0.	0.	3668.	0.	0.	2128.	3900.	0.	** 880.	1315.	.55	17.	61.6	F	12.1	5.1
9	2	1125.	228.	0.	3896.	228.	0.	2356.	3900.	0.	** 1125.	1315.	.60	17.	69.4	F	16.0	4.8
10	3	6320.	420.	396.	4316.	420.	375.	2776.	5591.	9.	** 6320.	1315.	.50	8.	116.5	F	10.1	8.0
11	2	2050.	0.	0.	3920.	0.	0.	2401.	4100.	0.	** 2050.	1315.	.59	10.	120.7	F	12.5	6.9
12	3	2560.	820.	0.	4740.	820.	0.	3221.	5540.	60.	** 2560.	1315.	.58	10.	109.3	F	11.0	7.0
13	3	1400.	0.	348.	4740.	0.	333.	3221.	5540.	60.	** 1400.	1315.	.58	10.	109.3	F	17.2	7.0
14	2	1320.	0.	0.	4392.	0.	0.	2888.	4400.	0.	** 1320.	1315.	.66	12.	116.8	F	11.0	6.3
15	3	540.	1260.	1460.	5652.	1260.	1204.	4148.	4664.	936.	** 540.	516.	.89	26.	52.9	F	12.5	3.7
16	2	1230.	0.	0.	4192.	0.	0.	2943.	4400.	0.	** 1230.	516.	.67	13.	114.5	F	14.1	6.2
17	2	890.	532.	0.	4724.	532.	0.	3475.	4393.	7.	** 890.	516.	.79	19.	92.4	F	17.2	4.9
18	3	4840.	212.	668.	4936.	212.	569.	3687.	5545.	55.	** 4840.	516.	.66	13.	96.8	F	12.1	6.2
19	2	530.	0.	0.	4268.	0.	0.	3118.	3800.	0.	B* 530.	516.	.82	21.	75.4	F	18.0	4.5
20	2	1040.	684.	0.	4952.	684.	0.	3788.	4365.	35.	** 1040.	516.	.87	24.	78.1	F	19.1	3.9
21	3	2810.	1044.	1188.	5996.	1044.	958.	4832.	4832.	768.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4808.	0.	0.	3874.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	448.	264.	5256.	448.	217.	4322.	5486.	114.	0.	0.	.79	62.	23.2	C	24.1	4.8
24	3	960.	0.	1880.	4992.	0.	1500.	4105.	5556.	44.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	3112.	3112.	0.	2559.	2559.	3600.	0.	0.	0.	.71	62.	20.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 16.	84.7		13.1	5.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	607. VEH-HRS	687. PASS-HRS	3348. VEH-HRS	3790. PASS-HRS
FREEWAY MERGE DELAY =	5. VEH-HRS	6. PASS-HRS	34. VEH-HRS	38. PASS-HRS
ON-RAMP MRG/CAP DELAY =	21. VEH-HRS	23. PASS-HRS	234. VEH-HRS	265. PASS-HRS
OFF-RAMP DELAY =	133. VEH-HRS	150. PASS-HRS	865. VEH-HRS	980. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	765. VEH-HRS	866. PASS-HRS	4481. VEH-HRS	5073. PASS-HRS
TOTAL TRAV DISTANCE =	9771. VEH-MI.	11061. PASS-MI.	95408. VEH-MI.	108002. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		28. MPH.	
AVERAGE DENSITY =	85. VPMPL		55. VPMPL	
TOTAL FUEL =	805. GALLONS		6633. GALLONS	
TOTAL EMISSIONS =	59. KILOGRAMS		477. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	103.	20.71	7.85	0.12	0.74	0.13	0.99
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	103.	20.71	7.85	0.12	0.74	0.13	0.99
ON-RAMP 4	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	0.	3.55	1.34	0.02	0.13	0.02	0.17
	TOTAL	0.	3.55	1.34	0.02	0.13	0.02	0.17
ON-RAMP 11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	11.	1.37	0.52	0.01	0.05	0.01	0.07
	TOTAL	11.	1.37	0.52	0.01	0.05	0.01	0.07
OFF-RAMP 11	OUTPUT POINT	536.	132.53	50.20	0.77	4.74	0.83	6.34

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3476.	180.	3476.	3476.	180.	1808.	4400.	0.	**12900.	1668.	.41	6.	160.9	F	6.9	9.3
2	2	1970.	0.	0.	3296.	0.	0.	1628.	4100.	0.	** 1970.	1668.	.40	5.	152.2	F	6.8	9.4
3	2	1830.	400.	412.	3696.	400.	412.	2028.	3993.	107.	** 1830.	1668.	.51	8.	130.2	F	8.0	8.1
4	2	2010.	0.	0.	3284.	0.	0.	1616.	4100.	0.	** 2010.	1668.	.39	5.	152.7	F	6.8	9.5
5	2	2445.	984.	508.	4268.	984.	451.	2600.	3786.	314.	** 2445.	1186.	.69	14.	95.8	F	10.7	6.0
6	2	1890.	0.	0.	3760.	0.	0.	2150.	4100.	0.	** 1890.	1186.	.52	8.	130.9	F	8.3	7.8
7	2	5320.	772.	688.	4532.	772.	622.	2922.	4100.	0.	** 5320.	1178.	.71	15.	99.4	F	11.1	5.8
8	2	880.	0.	0.	3844.	0.	0.	2300.	3900.	0.	** 880.	1178.	.59	10.	114.1	F	10.3	6.8
9	2	1125.	192.	0.	4036.	192.	0.	2492.	3900.	0.	** 1125.	1178.	.64	12.	106.3	F	13.5	6.5
10	3	6320.	368.	408.	4404.	368.	374.	2860.	5592.	8.	** 6320.	1178.	.51	8.	121.0	F	10.1	8.0
11	2	2050.	0.	0.	3996.	0.	0.	2486.	4100.	0.	** 2050.	1178.	.61	11.	117.2	F	12.9	6.7
12	3	2560.	732.	0.	4728.	732.	0.	3218.	5552.	48.	** 2560.	1178.	.58	10.	109.8	F	10.9	7.0
13	3	1400.	0.	316.	4728.	0.	294.	3218.	5552.	48.	** 1400.	1178.	.58	10.	109.8	F	17.1	7.0
14	2	1320.	0.	0.	4412.	0.	0.	2924.	4400.	0.	** 1320.	1178.	.66	13.	115.3	F	11.1	6.3
15	3	540.	1176.	1392.	5588.	1176.	1175.	4100.	4716.	884.	** 540.	616.	.87	24.	56.1	F	12.2	3.9
16	2	1230.	0.	0.	4196.	0.	0.	2925.	4400.	0.	** 1230.	616.	.66	13.	115.3	F	14.0	6.2
17	2	890.	612.	0.	4808.	612.	0.	3537.	4393.	7.	** 890.	616.	.81	20.	89.9	F	17.6	4.7
18	3	4840.	216.	632.	5024.	216.	550.	3753.	5542.	58.	B* 4840.	616.	.68	13.	94.9	F	12.3	6.1
19	2	530.	0.	0.	4392.	0.	0.	3203.	3800.	0.	BB 530.	597.	.84	22.	71.9	F	18.4	4.2
20	2	1040.	684.	0.	5076.	684.	0.	3846.	4367.	33.	** 1040.	520.	.88	25.	75.8	F	19.4	3.7
21	3	2810.	1004.	1092.	6080.	1004.	871.	4850.	4850.	750.	0.	0.	1.00	52.	31.4	E	30.3	2.3
22	2	1850.	0.	0.	4988.	0.	0.	3980.	4400.	0.	0.	0.	.90	58.	34.5	D	18.6	3.0
23	3	2390.	536.	240.	5524.	536.	197.	4516.	5472.	128.	0.	0.	.83	62.	24.3	C	24.1	4.8
24	3	960.	0.	1852.	5284.	0.	1500.	4318.	5548.	52.	0.	0.	.78	62.	23.2	C	17.2	4.8
25	2	1400.	0.	3432.	3432.	0.	2804.	2804.	3600.	0.	0.	0.	.78	62.	22.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 11.	109.4		11.5	6.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	735. VEH-HRS	832. PASS-HRS	4084. VEH-HRS	4623. PASS-HRS
FREEWAY MERGE DELAY =	3. VEH-HRS	3. PASS-HRS	36. VEH-HRS	41. PASS-HRS
ON-RAMP MRG/CAP DELAY =	65. VEH-HRS	74. PASS-HRS	299. VEH-HRS	338. PASS-HRS
OFF-RAMP DELAY =	134. VEH-HRS	152. PASS-HRS	1000. VEH-HRS	1132. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	937. VEH-HRS	1061. PASS-HRS	5418. VEH-HRS	6134. PASS-HRS
TOTAL TRAV DISTANCE =	8368. VEH-MI.	9473. PASS-MI.	103776. VEH-MI.	117475. PASS-MI.
AVERAGE SYSTEM SPEED =	9. MPH.		25. MPH.	
AVERAGE DENSITY =	109. VPMPL		60. VPMPL	
TOTAL FUEL =	804. GALLONS		7436. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		539. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	417.	64.95	24.60	0.38	2.32	0.41	3.11
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	417.	64.95	24.60	0.38	2.32	0.41	3.11
ON-RAMP 11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	21.	2.64	1.00	0.02	0.09	0.02	0.13
	TOTAL	21.	2.64	1.00	0.02	0.09	0.02	0.13
OFF-RAMP 11	OUTPUT POINT	539.	134.40	50.91	0.78	4.81	0.84	6.43

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3240.	164.	3240.	3240.	164.	1979.	4400.	0.	**12900.	1261.	.45	6.	153.9	F	7.3	8.8
2	2	1970.	0.	0.	3076.	0.	0.	1815.	4100.	0.	** 1970.	1261.	.44	6.	144.6	F	7.2	8.9
3	2	1830.	360.	468.	3436.	360.	468.	2175.	3991.	109.	** 1830.	1261.	.54	9.	124.1	F	8.7	7.5
4	2	2010.	0.	0.	2968.	0.	0.	1707.	4100.	0.	** 2010.	1261.	.42	6.	149.0	F	6.9	9.2
5	2	2445.	1136.	464.	4104.	1136.	431.	2843.	3814.	286.	** 2445.	972.	.75	16.	87.4	F	11.4	5.4
6	2	1890.	0.	0.	3640.	0.	0.	2412.	4100.	0.	** 1890.	972.	.59	10.	120.2	F	9.7	6.9
7	2	5320.	740.	700.	4380.	740.	655.	3152.	4100.	0.	** 5320.	948.	.77	18.	90.0	F	11.5	5.1
8	2	880.	0.	0.	3680.	0.	0.	2496.	3900.	0.	** 880.	948.	.64	12.	106.1	F	10.8	6.5
9	2	1125.	156.	0.	3836.	156.	0.	2652.	3900.	0.	** 1125.	948.	.68	13.	99.7	F	14.4	6.1
10	3	6320.	408.	460.	4244.	408.	434.	3060.	5593.	7.	** 6320.	948.	.55	9.	115.6	F	11.1	7.5
11	2	2050.	0.	0.	3784.	0.	0.	2626.	4100.	0.	** 2050.	948.	.64	12.	111.5	F	13.5	6.5
12	3	2560.	696.	0.	4480.	696.	0.	3322.	5544.	56.	** 2560.	948.	.60	10.	106.7	F	11.3	6.8
13	3	1400.	0.	356.	4480.	0.	339.	3322.	5544.	56.	** 1400.	948.	.60	10.	106.7	F	18.0	6.8
14	2	1320.	0.	0.	4124.	0.	0.	2982.	4400.	0.	** 1320.	948.	.68	13.	112.9	F	11.3	6.1
15	3	540.	1088.	1512.	5212.	1088.	1400.	4070.	4828.	772.	** 540.	758.	.84	22.	60.9	F	11.8	4.2
16	2	1230.	0.	0.	3700.	0.	0.	2670.	4400.	0.	** 1230.	758.	.61	11.	125.7	F	12.9	6.7
17	2	890.	668.	0.	4368.	668.	0.	3338.	4395.	5.	** 890.	758.	.76	17.	98.1	F	16.4	5.3
18	3	4840.	180.	596.	4548.	180.	560.	3518.	5541.	59.	** 4840.	758.	.63	12.	101.3	F	11.7	6.5
19	2	530.	0.	0.	3952.	0.	0.	2958.	3800.	0.	B* 530.	758.	.78	18.	81.9	F	16.9	5.0
20	2	1040.	764.	0.	4716.	764.	0.	3777.	4361.	39.	** 1040.	584.	.87	24.	78.4	F	19.0	3.9
21	3	2810.	1044.	1196.	5760.	1044.	1001.	4821.	4821.	779.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4564.	0.	0.	3820.	4400.	0.	0.	0.	.87	59.	32.3	D	18.2	3.4
23	3	2390.	424.	176.	4988.	424.	150.	4244.	5483.	117.	0.	0.	.77	62.	22.8	C	24.1	4.8
24	3	960.	0.	1920.	4812.	0.	1500.	4094.	5558.	42.	0.	0.	.74	62.	22.0	C	17.2	4.8
25	2	1400.	0.	2892.	2892.	0.	2460.	2460.	3600.	0.	0.	0.	.68	62.	19.8	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 12.	105.5		11.7	6.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	711. VEH-HRS	805. PASS-HRS	4795. VEH-HRS	5428. PASS-HRS
FREEWAY MERGE DELAY =	1. VEH-HRS	1. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	92. VEH-HRS	104. PASS-HRS	390. VEH-HRS	442. PASS-HRS
OFF-RAMP DELAY =	139. VEH-HRS	157. PASS-HRS	1139. VEH-HRS	1289. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	943. VEH-HRS	1067. PASS-HRS	6361. VEH-HRS	7201. PASS-HRS
TOTAL TRAV DISTANCE =	8565. VEH-MI.	9696. PASS-MI.	112341. VEH-MI.	127170. PASS-MI.
AVERAGE SYSTEM SPEED =	9. MPH.		23. MPH.	
AVERAGE DENSITY =	105. VPMPL		65. VPMPL	
TOTAL FUEL =	819. GALLONS		8256. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		604. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	315.	91.53	34.67	0.53	3.27	0.57	4.38
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	315.	91.53	34.67	0.53	3.27	0.57	4.38
ON-RAMP	11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	7.	0.92	0.35	0.01	0.03	0.01	0.04
		TOTAL	7.	0.92	0.35	0.01	0.03	0.01	0.04
OFF-RAMP	11	OUTPUT POINT	573.	139.02	52.65	0.81	4.97	0.87	6.65

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3448.	204.	3448.	3448.	204.	2589.	4400.	0.	**12900.	859.	.59	10.	129.0	F	9.7	6.9
2	2	1970.	0.	0.	3244.	0.	0.	2385.	4100.	0.	** 1970.	859.	.58	10.	121.3	F	9.6	7.0
3	2	1830.	360.	372.	3604.	360.	372.	2745.	4051.	49.	** 1830.	859.	.68	13.	104.0	F	10.6	6.1
4	2	2010.	0.	0.	3232.	0.	0.	2373.	4100.	0.	** 2010.	859.	.58	10.	121.8	F	9.5	7.0
5	2	2445.	916.	388.	4148.	916.	363.	3289.	3887.	213.	** 2445.	598.	.85	23.	73.0	F	12.4	4.2
6	2	1890.	0.	0.	3760.	0.	0.	2926.	4100.	0.	** 1890.	598.	.71	15.	99.2	F	11.1	5.8
7	2	5320.	728.	740.	4488.	728.	676.	3654.	4100.	0.	** 5320.	446.	.89	26.	69.5	F	13.1	3.6
8	2	880.	0.	0.	3748.	0.	0.	2978.	3900.	0.	** 880.	446.	.76	17.	86.4	F	12.3	5.2
9	2	1125.	172.	0.	3920.	172.	0.	3150.	3900.	0.	** 1125.	446.	.81	20.	79.4	F	17.7	4.6
10	3	6320.	408.	444.	4328.	408.	411.	3558.	5593.	7.	** 6320.	446.	.64	12.	102.0	F	13.4	6.5
11	2	2050.	0.	0.	3884.	0.	0.	3147.	4100.	0.	** 2050.	446.	.77	17.	90.2	F	16.6	5.2
12	3	2560.	652.	0.	4536.	652.	0.	3799.	5536.	64.	** 2560.	446.	.69	14.	93.4	F	12.5	6.1
13	3	1400.	0.	436.	4536.	0.	408.	3799.	5536.	64.	** 1400.	446.	.69	14.	93.4	F	22.1	6.1
14	2	1320.	0.	0.	4100.	0.	0.	3391.	4400.	0.	** 1320.	446.	.77	18.	96.2	F	12.3	5.1
15	3	540.	988.	1416.	5088.	988.	1343.	4379.	4888.	712.	** 540.	446.	.90	27.	54.6	F	12.6	3.6
16	2	1230.	0.	0.	3672.	0.	0.	3036.	4400.	0.	** 1230.	446.	.69	14.	110.7	F	14.7	6.0
17	2	890.	592.	0.	4264.	592.	0.	3628.	4396.	4.	** 890.	446.	.83	21.	86.3	F	18.1	4.4
18	3	4840.	192.	732.	4456.	192.	701.	3820.	5539.	61.	** 4840.	446.	.69	14.	93.0	F	12.6	6.0
19	2	530.	0.	0.	3724.	0.	0.	3119.	3800.	0.	** 530.	446.	.82	21.	75.3	F	18.0	4.5
20	2	1040.	748.	0.	4472.	748.	0.	3897.	4361.	39.	** 1040.	446.	.89	27.	73.5	F	19.7	3.6
21	3	2810.	976.	1224.	5448.	976.	1095.	4873.	4873.	727.	0.	0.	1.00	52.	31.5	E	30.3	2.3
22	2	1850.	0.	0.	4224.	0.	0.	3778.	4400.	0.	0.	0.	.86	59.	31.8	D	18.1	3.5
23	3	2390.	312.	192.	4536.	312.	173.	4090.	5519.	81.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1732.	4344.	0.	1500.	3917.	5572.	28.	0.	0.	.70	62.	21.1	C	17.2	4.8
25	2	1400.	0.	2612.	2612.	0.	2355.	2355.	3600.	0.	0.	0.	.65	62.	19.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 16.	89.9		13.4	5.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	611. VEH-HRS	691. PASS-HRS	5406. VEH-HRS	6119. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	66. VEH-HRS	75. PASS-HRS	457. VEH-HRS	517. PASS-HRS
OFF-RAMP DELAY =	145. VEH-HRS	164. PASS-HRS	1284. VEH-HRS	1453. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	822. VEH-HRS	931. PASS-HRS	7184. VEH-HRS	8132. PASS-HRS
TOTAL TRAV DISTANCE =	9780. VEH-MI.	11071. PASS-MI.	122122. VEH-MI.	138242. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		23. MPH.	
AVERAGE DENSITY =	90. VPMPL		67. VPMPL	
TOTAL FUEL =	810. GALLONS		9066. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		666. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	215.	66.25	25.09	0.39	2.37	0.41	3.17
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	215.	66.25	25.09	0.39	2.37	0.41	3.17
OFF-RAMP	11	OUTPUT POINT	588.	145.13	54.97	0.84	5.19	0.91	6.94

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3572.	168.	3572.	3572.	168.	2459.	4400.	0.	**12900.	1113.	.56	9.	134.3	F	9.0	7.3
2	2	1970.	0.	0.	3404.	0.	0.	2291.	4100.	0.	** 1970.	1113.	.56	9.	125.2	F	9.0	7.3
3	2	1830.	300.	152.	3704.	300.	152.	2591.	4100.	0.	** 1830.	1113.	.63	11.	112.9	F	10.1	6.5
4	2	2010.	0.	0.	3552.	0.	0.	2439.	4100.	0.	** 2010.	1113.	.59	10.	119.1	F	9.8	6.8
5	2	2445.	692.	380.	4244.	692.	355.	3131.	3972.	128.	** 2445.	841.	.79	19.	84.0	F	11.7	4.9
6	2	1890.	0.	0.	3864.	0.	0.	2775.	4100.	0.	** 1890.	841.	.68	13.	105.4	F	10.6	6.1
7	2	5320.	836.	780.	4700.	836.	681.	3611.	4100.	0.	** 5320.	489.	.88	25.	71.2	F	12.9	3.7
8	2	880.	0.	0.	3920.	0.	0.	2931.	3900.	0.	** 880.	489.	.75	17.	88.4	F	12.2	5.4
9	2	1125.	200.	0.	4120.	200.	0.	3131.	3900.	0.	** 1125.	489.	.80	20.	80.2	F	17.5	4.7
10	3	6320.	428.	372.	4548.	428.	331.	3559.	5591.	9.	** 6320.	489.	.64	12.	101.9	F	13.4	6.5
11	2	2050.	0.	0.	4176.	0.	0.	3227.	4100.	0.	** 2050.	489.	.79	19.	86.9	F	17.1	4.9
12	3	2560.	732.	0.	4908.	732.	0.	3959.	5532.	68.	** 2560.	489.	.72	15.	88.9	F	13.1	5.8
13	3	1400.	0.	456.	4908.	0.	413.	3959.	5532.	68.	** 1400.	489.	.72	15.	88.9	F	24.2	5.8
14	2	1320.	0.	0.	4452.	0.	0.	3546.	4400.	0.	** 1320.	489.	.81	20.	89.9	F	12.7	4.6
15	3	540.	860.	1308.	5312.	860.	1206.	4406.	4952.	648.	** 540.	489.	.89	26.	56.1	F	12.6	3.6
16	2	1230.	0.	0.	4004.	0.	0.	3201.	4400.	0.	** 1230.	489.	.73	15.	104.0	F	15.8	5.6
17	2	890.	520.	0.	4524.	520.	0.	3721.	4394.	6.	** 890.	489.	.85	23.	82.4	F	18.5	4.2
18	3	4840.	188.	692.	4712.	188.	646.	3909.	5545.	55.	** 4840.	489.	.70	14.	90.8	F	12.8	5.9
19	2	530.	0.	0.	4020.	0.	0.	3263.	3800.	0.	** 530.	489.	.86	23.	69.4	F	18.8	4.0
20	2	1040.	644.	0.	4664.	644.	0.	3907.	4365.	35.	** 1040.	458.	.90	27.	73.3	F	19.7	3.6
21	3	2810.	980.	1268.	5644.	980.	1098.	4887.	4887.	713.	0.	0.	1.00	52.	31.6	E	30.3	2.3
22	2	1850.	0.	0.	4376.	0.	0.	3789.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	276.	148.	4652.	276.	129.	4065.	5524.	76.	0.	0.	.74	62.	21.9	C	24.1	4.8
24	3	960.	0.	1860.	4504.	0.	1500.	3936.	5573.	27.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2644.	2644.	0.	2310.	2310.	3600.	0.	0.	0.	.64	62.	18.6	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 16. 91.2 13.2 5.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	617. VEH-HRS	698. PASS-HRS	6022. VEH-HRS	6817. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	62. VEH-HRS	70. PASS-HRS	518. VEH-HRS	587. PASS-HRS
OFF-RAMP DELAY =	151. VEH-HRS	171. PASS-HRS	1435. VEH-HRS	1624. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	829. VEH-HRS	939. PASS-HRS	8013. VEH-HRS	9071. PASS-HRS
TOTAL TRAV DISTANCE =	9723. VEH-MI.	11007. PASS-MI.	131845. VEH-MI.	149249. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		22. MPH.	
AVERAGE DENSITY =	91. VPMPL		69. VPMPL	
TOTAL FUEL =	815. GALLONS		9881. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		728. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	278.	61.63	23.34	0.36	2.21	0.38	2.95
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	278.	61.63	23.34	0.36	2.21	0.38	2.95
OFF-RAMP	11	OUTPUT POINT	620.	150.97	57.18	0.88	5.40	0.94	7.22

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3404.	180.	3404.	3404.	180.	2237.	4400.	0.	**12900.	1167.	.51	8.	143.4	F	8.0	8.1
2	2	1970.	0.	0.	3224.	0.	0.	2057.	4100.	0.	** 1970.	1167.	.50	8.	134.7	F	7.9	8.2
3	2	1830.	304.	160.	3528.	304.	160.	2361.	4100.	0.	** 1830.	1167.	.58	10.	122.3	F	9.4	7.1
4	2	2010.	0.	0.	3368.	0.	0.	2201.	4100.	0.	** 2010.	1167.	.54	9.	128.8	F	8.5	7.7
5	2	2445.	672.	328.	4040.	672.	327.	2873.	4032.	68.	** 2445.	1159.	.71	15.	97.7	F	11.1	5.8
6	2	1890.	0.	0.	3712.	0.	0.	2546.	4100.	0.	** 1890.	1159.	.62	11.	114.7	F	10.0	6.6
7	2	5320.	776.	788.	4488.	776.	720.	3322.	4100.	0.	** 5320.	778.	.81	20.	83.0	F	11.9	4.6
8	2	880.	0.	0.	3700.	0.	0.	2602.	3900.	0.	** 880.	778.	.67	13.	101.8	F	11.1	6.2
9	2	1125.	220.	0.	3920.	220.	0.	2822.	3900.	0.	** 1125.	778.	.72	15.	92.8	F	15.7	5.7
10	3	6320.	520.	300.	4440.	520.	279.	3342.	5592.	8.	** 6320.	778.	.60	10.	107.9	F	12.7	6.8
11	2	2050.	0.	0.	4140.	0.	0.	3063.	4100.	0.	** 2050.	778.	.75	16.	93.6	F	16.2	5.4
12	3	2560.	692.	0.	4832.	692.	0.	3755.	5544.	56.	** 2560.	778.	.68	13.	94.9	F	12.3	6.1
13	3	1400.	0.	392.	4832.	0.	368.	3755.	5544.	56.	** 1400.	778.	.68	13.	94.9	F	21.6	6.1
14	2	1320.	0.	0.	4440.	0.	0.	3388.	4400.	0.	** 1320.	778.	.77	18.	96.4	F	12.3	5.1
15	3	540.	880.	1400.	5320.	880.	1303.	4268.	4952.	648.	** 540.	684.	.86	24.	59.9	F	12.1	4.0
16	2	1230.	0.	0.	3920.	0.	0.	2964.	4400.	0.	** 1230.	684.	.67	13.	113.6	F	14.3	6.2
17	2	890.	532.	0.	4452.	532.	0.	3496.	4395.	5.	** 890.	684.	.80	19.	91.6	F	17.3	4.8
18	3	4840.	196.	592.	4648.	196.	558.	3692.	5551.	49.	** 4840.	684.	.67	13.	96.9	F	12.1	6.2
19	2	530.	0.	0.	4056.	0.	0.	3135.	3800.	0.	** 530.	665.	.82	21.	74.7	F	18.1	4.4
20	2	1040.	660.	0.	4716.	660.	0.	3795.	4364.	36.	** 1040.	569.	.87	24.	77.8	F	19.1	3.9
21	3	2810.	1024.	1296.	5740.	1024.	1088.	4819.	4819.	781.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4444.	0.	0.	3731.	4400.	0.	0.	0.	.85	60.	31.2	D	18.0	3.6
23	3	2390.	312.	188.	4756.	312.	160.	4043.	5517.	83.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1752.	4568.	0.	1500.	3883.	5570.	30.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	2816.	2816.	0.	2394.	2394.	3600.	0.	0.	0.	.66	62.	19.3	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 14. 98.4 12.4 5.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	664. VEH-HRS	752. PASS-HRS	6686. VEH-HRS	7569. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	71. VEH-HRS	81. PASS-HRS	589. VEH-HRS	667. PASS-HRS
OFF-RAMP DELAY =	155. VEH-HRS	175. PASS-HRS	1589. VEH-HRS	1799. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	890. VEH-HRS	1007. PASS-HRS	8903. VEH-HRS	10078. PASS-HRS
TOTAL TRAV DISTANCE =	9143. VEH-MI.	10350. PASS-MI.	140988. VEH-MI.	159598. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		21. MPH.	
AVERAGE DENSITY =	98. VPMPL		71. VPMPL	
TOTAL FUEL =	822. GALLONS		10702. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		792. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	292.	71.26	26.99	0.41	2.55	0.44	3.41
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	292.	71.26	26.99	0.41	2.55	0.44	3.41
OFF-RAMP	11	OUTPUT POINT	617.	154.55	58.54	0.90	5.53	0.97	7.39

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3224.	188.	3224.	3224.	188.	2428.	4400.	0.	**12900.	796.	.55	9.	135.5	F	8.8	7.4
2	2	1970.	0.	0.	3036.	0.	0.	2240.	4100.	0.	** 1970.	796.	.55	9.	127.2	F	8.7	7.5
3	2	1830.	352.	172.	3388.	352.	172.	2592.	4100.	0.	** 1830.	796.	.63	11.	112.8	F	10.1	6.5
4	2	2010.	0.	0.	3216.	0.	0.	2420.	4100.	0.	** 2010.	796.	.59	10.	119.9	F	9.7	6.8
5	2	2445.	692.	516.	3908.	692.	513.	3112.	3888.	212.	** 2445.	776.	.80	19.	80.3	F	11.8	4.7
6	2	1890.	0.	0.	3392.	0.	0.	2599.	4100.	0.	** 1890.	776.	.63	12.	112.6	F	10.1	6.5
7	2	5320.	768.	616.	4160.	768.	607.	3367.	4100.	0.	** 5320.	733.	.82	21.	81.2	F	12.1	4.5
8	2	880.	0.	0.	3544.	0.	0.	2760.	3900.	0.	** 880.	733.	.71	14.	95.3	F	11.7	5.8
9	2	1125.	236.	0.	3780.	236.	0.	2996.	3900.	0.	** 1125.	733.	.77	17.	85.7	F	16.6	5.2
10	3	6320.	576.	276.	4356.	576.	273.	3572.	5593.	7.	** 6320.	733.	.64	12.	101.6	F	13.5	6.5
11	2	2050.	0.	0.	4080.	0.	0.	3299.	4100.	0.	** 2050.	733.	.80	20.	84.0	F	17.6	4.7
12	3	2560.	620.	0.	4700.	620.	0.	3919.	5536.	64.	** 2560.	733.	.71	14.	90.2	F	12.9	5.8
13	3	1400.	0.	476.	4700.	0.	471.	3919.	5536.	64.	** 1400.	733.	.71	14.	90.2	F	23.6	5.8
14	2	1320.	0.	0.	4224.	0.	0.	3448.	4400.	0.	** 1320.	733.	.78	18.	93.9	F	12.4	5.0
15	3	540.	912.	1484.	5136.	912.	1431.	4360.	4952.	648.	** 540.	592.	.88	25.	57.4	F	12.4	3.7
16	2	1230.	0.	0.	3652.	0.	0.	2929.	4400.	0.	** 1230.	592.	.67	13.	115.1	F	14.1	6.2
17	2	890.	588.	0.	4240.	588.	0.	3517.	4396.	4.	** 890.	592.	.80	19.	90.8	F	17.5	4.7
18	3	4840.	252.	692.	4492.	252.	672.	3769.	5542.	58.	** 4840.	592.	.68	13.	94.5	F	12.4	6.1
19	2	530.	0.	0.	3800.	0.	0.	3097.	3800.	0.	** 530.	592.	.82	20.	76.2	F	17.9	4.5
20	2	1040.	692.	0.	4492.	692.	0.	3789.	4361.	39.	** 1040.	571.	.87	24.	77.8	F	19.1	3.9
21	3	2810.	1032.	1372.	5524.	1032.	1197.	4821.	4821.	779.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4152.	0.	0.	3624.	4400.	0.	0.	0.	.82	60.	30.0	D	17.8	3.9
23	3	2390.	280.	184.	4432.	280.	162.	3904.	5531.	69.	0.	0.	.71	62.	21.0	C	24.1	4.8
24	3	960.	0.	1708.	4248.	0.	1500.	3742.	5575.	25.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	2540.	2540.	0.	2237.	2237.	3600.	0.	0.	0.	.62	62.	18.0	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 15. 93.3 12.9 5.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	630. VEH-HRS	713. PASS-HRS	7317. VEH-HRS	8283. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	61. VEH-HRS	69. PASS-HRS	651. VEH-HRS	737. PASS-HRS
OFF-RAMP DELAY =	154. VEH-HRS	175. PASS-HRS	1744. VEH-HRS	1974. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	846. VEH-HRS	958. PASS-HRS	9749. VEH-HRS	11036. PASS-HRS
TOTAL TRAV DISTANCE =	9479. VEH-MI.	10731. PASS-MI.	150467. VEH-MI.	170329. PASS-MI.
AVERAGE SYSTEM SPEED =	11. MPH.		21. MPH.	
AVERAGE DENSITY =	93. VPMPL		72. VPMPL	
TOTAL FUEL =	814. GALLONS		11516. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		856. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	199.	61.33	23.23	0.36	2.19	0.38	2.93
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	199.	61.33	23.23	0.36	2.19	0.38	2.93
OFF-RAMP	11	OUTPUT POINT	618.	154.35	58.46	0.90	5.52	0.96	7.38

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2740.	120.	2740.	2740.	120.	2701.	4400.	0.	**12900.	39.	.61	11.	124.4	F	9.9	6.7
2	2	1970.	0.	0.	2620.	0.	0.	2581.	4100.	0.	** 1970.	39.	.63	11.	113.3	F	10.1	6.5
3	2	1830.	308.	188.	2928.	308.	188.	2889.	4100.	0.	** 1830.	39.	.70	14.	100.7	F	11.0	5.9
4	2	2010.	0.	0.	2740.	0.	0.	2701.	4100.	0.	** 2010.	39.	.66	12.	108.4	F	10.4	6.3
5	2	2445.	576.	576.	3316.	576.	576.	3277.	3910.	190.	** 2445.	39.	.84	22.	74.7	F	12.3	4.3
6	2	1890.	0.	0.	2740.	0.	0.	2701.	4100.	0.	** 1890.	39.	.66	12.	108.4	F	10.4	6.3
7	2	5320.	704.	560.	3444.	704.	560.	3405.	4100.	0.	** 5320.	39.	.83	21.	79.7	F	12.2	4.4
8	2	880.	0.	0.	2884.	0.	0.	2845.	3900.	0.	** 880.	39.	.73	15.	91.9	F	12.0	5.6
9	2	1125.	204.	0.	3088.	204.	0.	3049.	3900.	0.	** 1125.	39.	.78	18.	83.5	F	17.0	5.0
10	3	6320.	508.	272.	3596.	508.	272.	3557.	5597.	3.	** 6320.	39.	.64	12.	102.2	F	13.4	6.5
11	2	2050.	0.	0.	3324.	0.	0.	3285.	4100.	0.	** 2050.	39.	.80	19.	84.6	F	17.5	4.7
12	3	2560.	620.	0.	3944.	620.	0.	3905.	5532.	68.	** 2560.	39.	.71	14.	90.4	F	12.9	5.9
13	3	1400.	0.	436.	3944.	0.	436.	3905.	5532.	68.	** 1400.	39.	.71	14.	90.4	F	23.4	5.9
14	2	1320.	0.	0.	3508.	0.	0.	3469.	4400.	0.	** 1320.	39.	.79	19.	93.0	F	12.5	4.9
15	3	540.	956.	1360.	4464.	956.	1360.	4425.	4936.	664.	** 540.	39.	.90	27.	55.1	F	12.7	3.6
16	2	1230.	0.	0.	3104.	0.	0.	3065.	4400.	0.	** 1230.	39.	.70	14.	109.5	F	14.9	6.0
17	2	890.	684.	0.	3788.	684.	0.	3749.	4400.	0.	** 890.	39.	.85	23.	81.6	F	18.7	4.1
18	3	4840.	288.	724.	4076.	288.	724.	4037.	5544.	56.	** 4840.	39.	.73	15.	87.3	F	13.2	5.6
19	2	530.	0.	0.	3352.	0.	0.	3313.	3800.	0.	** 530.	39.	.87	25.	67.4	F	19.2	3.8
20	2	1040.	608.	0.	3960.	608.	0.	3921.	4371.	29.	** 1040.	39.	.90	27.	73.0	F	19.8	3.6
21	3	2810.	988.	1264.	4948.	988.	1254.	4909.	4909.	691.	0.	0.	1.00	52.	31.7	E	30.3	2.3
22	2	1850.	0.	0.	3684.	0.	0.	3655.	4400.	0.	0.	0.	.83	60.	30.3	D	17.9	3.8
23	3	2390.	308.	176.	3992.	308.	175.	3963.	5532.	68.	0.	0.	.72	62.	21.3	C	24.1	4.8
24	3	960.	0.	1560.	3816.	0.	1500.	3788.	5578.	22.	0.	0.	.68	62.	20.4	C	17.2	4.8
25	2	1400.	0.	2256.	2256.	0.	2239.	2239.	3600.	0.	0.	0.	.62	62.	18.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 16.		88.5	13.5	5.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	600. VEH-HRS	679. PASS-HRS	7917. VEH-HRS	8962. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	26. VEH-HRS	30. PASS-HRS	677. VEH-HRS	766. PASS-HRS
OFF-RAMP DELAY =	156. VEH-HRS	177. PASS-HRS	1900. VEH-HRS	2151. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	782. VEH-HRS	885. PASS-HRS	10531. VEH-HRS	11921. PASS-HRS
TOTAL TRAV DISTANCE =	9882. VEH-MI.	11187. PASS-MI.	160350. VEH-MI.	181516. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		20. MPH.	
AVERAGE DENSITY =	88. VPMPL		73. VPMPL	
TOTAL FUEL =	803. GALLONS		12319. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		917. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	10.	26.09	9.88	0.15	0.93	0.16	1.25
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	10.	26.09	9.88	0.15	0.93	0.16	1.25
OFF-RAMP	11	OUTPUT POINT	630.	156.01	59.09	0.91	5.58	0.97	7.46

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2620.	88.	2620.	2620.	88.	2434.	4400.	0.	**12900.	186.	.55	9.	135.3	F	8.8	7.4
2	2	1970.	0.	0.	2532.	0.	0.	2346.	4100.	0.	** 1970.	186.	.57	10.	122.9	F	9.3	7.1
3	2	1830.	324.	212.	2856.	324.	212.	2670.	4100.	0.	** 1830.	186.	.65	12.	109.7	F	10.3	6.4
4	2	2010.	0.	0.	2644.	0.	0.	2458.	4100.	0.	** 2010.	186.	.60	10.	118.3	F	9.8	6.8
5	2	2445.	452.	420.	3096.	452.	420.	2910.	4100.	0.	** 2445.	186.	.71	15.	99.9	F	11.1	5.8
6	2	1890.	0.	0.	2676.	0.	0.	2490.	4100.	0.	** 1890.	186.	.61	11.	117.0	F	9.9	6.7
7	2	5320.	740.	516.	3416.	740.	516.	3230.	4100.	0.	** 5320.	186.	.79	19.	86.8	F	11.7	4.9
8	2	880.	0.	0.	2900.	0.	0.	2714.	3900.	0.	** 880.	186.	.70	14.	97.2	F	11.5	6.0
9	2	1125.	200.	0.	3100.	200.	0.	2914.	3900.	0.	** 1125.	186.	.75	16.	89.0	F	16.2	5.4
10	3	6320.	552.	320.	3652.	552.	320.	3466.	5597.	3.	** 6320.	186.	.62	11.	104.7	F	13.1	6.6
11	2	2050.	0.	0.	3332.	0.	0.	3146.	4100.	0.	** 2050.	186.	.77	17.	90.2	F	16.6	5.2
12	3	2560.	592.	0.	3924.	592.	0.	3738.	5536.	64.	** 2560.	186.	.68	13.	95.1	F	12.3	6.2
13	3	1400.	0.	416.	3924.	0.	416.	3738.	5536.	64.	** 1400.	186.	.68	13.	95.1	F	21.4	6.2
14	2	1320.	0.	0.	3508.	0.	0.	3322.	4400.	0.	** 1320.	186.	.75	17.	99.0	F	12.2	5.3
15	3	540.	932.	1204.	4440.	932.	1204.	4254.	4924.	676.	** 540.	186.	.86	24.	59.3	F	12.1	4.0
16	2	1230.	0.	0.	3236.	0.	0.	3050.	4400.	0.	** 1230.	186.	.69	14.	110.2	F	14.8	6.0
17	2	890.	700.	0.	3936.	700.	0.	3750.	4398.	2.	** 890.	186.	.85	23.	81.5	F	18.7	4.1
18	3	4840.	256.	668.	4192.	256.	668.	4006.	5543.	57.	** 4840.	186.	.72	15.	88.1	F	13.2	5.7
19	2	530.	0.	0.	3524.	0.	0.	3338.	3800.	0.	** 530.	186.	.88	25.	66.4	F	19.3	3.8
20	2	1040.	716.	0.	4240.	716.	0.	4054.	4363.	37.	** 1040.	186.	.93	30.	67.2	F	20.7	3.2
21	3	2810.	908.	1232.	5148.	908.	1187.	4962.	4962.	638.	0.	0.	1.00	52.	32.1	E	30.3	2.3
22	2	1850.	0.	0.	3916.	0.	0.	3774.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	276.	124.	4192.	276.	120.	4050.	5532.	68.	0.	0.	.73	62.	21.8	C	24.1	4.8
24	3	960.	0.	1824.	4068.	0.	1500.	3931.	5578.	22.	0.	0.	.70	62.	21.1	C	17.2	4.8
25	2	1400.	0.	2244.	2244.	0.	2168.	2168.	3600.	0.	0.	0.	.60	62.	17.5	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 15.	94.6		12.9	5.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	638. VEH-HRS	722. PASS-HRS	8555. VEH-HRS	9684. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	684. VEH-HRS	774. PASS-HRS
OFF-RAMP DELAY =	166. VEH-HRS	188. PASS-HRS	2066. VEH-HRS	2338. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	811. VEH-HRS	918. PASS-HRS	11342. VEH-HRS	12839. PASS-HRS
TOTAL TRAV DISTANCE =	9480. VEH-MI.	10732. PASS-MI.	169830. VEH-MI.	192247. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		20. MPH.	
AVERAGE DENSITY =	95. VPMPL		74. VPMPL	
TOTAL FUEL =	798. GALLONS		13117. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		978. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	47.	7.05	2.67	0.04	0.25	0.04	0.34
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	47.	7.05	2.67	0.04	0.25	0.04	0.34
OFF-RAMP	11	OUTPUT POINT	696.	165.73	62.77	0.96	5.93	1.03	7.93

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2388.	96.	2388.	2388.	96.	2207.	4400.	0.	**12900.	181.	.50	8.	144.6	F	7.9	8.2
2	2	1970.	0.	0.	2292.	0.	0.	2111.	4100.	0.	** 1970.	181.	.51	8.	132.5	F	8.1	8.0
3	2	1830.	344.	84.	2636.	344.	84.	2455.	4100.	0.	** 1830.	181.	.60	10.	118.5	F	9.8	6.8
4	2	2010.	0.	0.	2552.	0.	0.	2371.	4100.	0.	** 2010.	181.	.58	10.	121.9	F	9.5	7.0
5	2	2445.	636.	392.	3188.	636.	392.	3007.	4022.	78.	** 2445.	181.	.75	16.	91.7	F	11.4	5.4
6	2	1890.	0.	0.	2796.	0.	0.	2615.	4100.	0.	** 1890.	181.	.64	12.	111.9	F	10.1	6.5
7	2	5320.	676.	640.	3472.	676.	640.	3291.	4100.	0.	** 5320.	181.	.80	20.	84.3	F	11.8	4.7
8	2	880.	0.	0.	2832.	0.	0.	2651.	3900.	0.	** 880.	181.	.68	13.	99.8	F	11.3	6.1
9	2	1125.	200.	0.	3032.	200.	0.	2851.	3900.	0.	** 1125.	181.	.73	16.	91.6	F	15.8	5.6
10	3	6320.	608.	316.	3640.	608.	316.	3459.	5597.	3.	** 6320.	181.	.62	11.	104.9	F	13.1	6.6
11	2	2050.	0.	0.	3324.	0.	0.	3143.	4100.	0.	** 2050.	181.	.77	17.	90.3	F	16.6	5.2
12	3	2560.	620.	0.	3944.	620.	0.	3763.	5532.	68.	** 2560.	181.	.68	13.	94.3	F	12.4	6.1
13	3	1400.	0.	428.	3944.	0.	428.	3763.	5532.	68.	** 1400.	181.	.68	13.	94.3	F	21.7	6.1
14	2	1320.	0.	0.	3516.	0.	0.	3335.	4400.	0.	** 1320.	181.	.76	17.	98.5	F	12.2	5.3
15	3	540.	844.	1088.	4360.	844.	1088.	4179.	4968.	632.	** 540.	181.	.84	22.	62.9	F	11.8	4.2
16	2	1230.	0.	0.	3272.	0.	0.	3091.	4400.	0.	** 1230.	181.	.70	14.	108.5	F	15.1	5.9
17	2	890.	692.	0.	3964.	692.	0.	3783.	4398.	2.	** 890.	181.	.86	24.	80.1	F	18.9	4.0
18	3	4840.	248.	688.	4212.	248.	688.	4031.	5539.	61.	** 4840.	181.	.73	15.	87.2	F	13.2	5.6
19	2	530.	0.	0.	3524.	0.	0.	3343.	3800.	0.	** 530.	181.	.88	25.	66.2	F	19.4	3.7
20	2	1040.	684.	0.	4208.	684.	0.	4027.	4366.	34.	** 1040.	181.	.92	29.	68.4	F	20.5	3.3
21	3	2810.	928.	1172.	5136.	928.	1131.	4955.	4955.	645.	0.	0.	1.00	52.	32.0	E	30.3	2.3
22	2	1850.	0.	0.	3964.	0.	0.	3824.	4400.	0.	0.	0.	.87	59.	32.4	D	18.2	3.4
23	3	2390.	292.	116.	4256.	292.	112.	4116.	5525.	75.	0.	0.	.75	62.	22.1	C	24.1	4.8
24	3	960.	0.	1792.	4140.	0.	1500.	4004.	5575.	25.	0.	0.	.72	62.	21.5	C	17.2	4.8
25	2	1400.	0.	2348.	2348.	0.	2271.	2271.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 14.	96.5		12.7	5.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	649. VEH-HRS	735. PASS-HRS	9204. VEH-HRS	10419. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	11. VEH-HRS	13. PASS-HRS	695. VEH-HRS	787. PASS-HRS
OFF-RAMP DELAY =	181. VEH-HRS	205. PASS-HRS	2247. VEH-HRS	2543. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	842. VEH-HRS	953. PASS-HRS	12184. VEH-HRS	13792. PASS-HRS
TOTAL TRAV DISTANCE =	9355. VEH-MI.	10590. PASS-MI.	179185. VEH-MI.	202838. PASS-MI.
AVERAGE SYSTEM SPEED =	11. MPH.		19. MPH.	
AVERAGE DENSITY =	96. VPMPL		76. VPMPL	
TOTAL FUEL =	810. GALLONS		13927. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		1041. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	45.	11.48	4.35	0.07	0.41	0.07	0.55
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	45.	11.48	4.35	0.07	0.41	0.07	0.55
OFF-RAMP	11	OUTPUT POINT	754.	181.21	68.63	1.05	6.48	1.13	8.67

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2464.	120.	2464.	2464.	120.	2580.	4400.	0.	* 12267.	-116.	.59	10.	127.0	F	9.8	6.8
2	2	1970.	0.	0.	2344.	0.	0.	2460.	4100.	0.	** 1970.	-116.	.60	10.	118.3	F	9.8	6.8
3	2	1830.	412.	112.	2756.	412.	112.	2872.	4100.	0.	** 1830.	-116.	.70	14.	101.4	F	10.9	5.9
4	2	2010.	0.	0.	2644.	0.	0.	2760.	4100.	0.	** 2010.	-116.	.67	13.	106.0	F	10.5	6.2
5	2	2445.	528.	376.	3172.	528.	376.	3288.	4084.	16.	** 2445.	-116.	.80	20.	83.6	F	11.9	4.7
6	2	1890.	0.	0.	2796.	0.	0.	2912.	4100.	0.	** 1890.	-116.	.71	15.	99.8	F	11.1	5.8
7	2	5320.	768.	728.	3564.	768.	728.	3680.	4100.	0.	** 5320.	-116.	.90	27.	68.4	F	13.2	3.6
8	2	880.	0.	0.	2836.	0.	0.	2952.	3900.	0.	** 880.	-116.	.76	17.	87.5	F	12.2	5.3
9	2	1125.	208.	0.	3044.	208.	0.	3160.	3900.	0.	** 1125.	-116.	.81	20.	79.0	F	17.8	4.6
10	3	6320.	516.	356.	3560.	516.	356.	3676.	5597.	3.	** 6320.	-116.	.66	12.	99.0	F	13.9	6.3
11	2	2050.	0.	0.	3204.	0.	0.	3320.	4100.	0.	** 2050.	-116.	.81	20.	83.1	F	17.8	4.6
12	3	2560.	788.	0.	3992.	788.	0.	4108.	5516.	84.	** 2560.	-116.	.74	16.	84.3	F	13.4	5.4
13	3	1400.	0.	440.	3992.	0.	440.	4108.	5516.	84.	** 1400.	-116.	.74	16.	84.3	F	26.0	5.4
14	2	1320.	0.	0.	3552.	0.	0.	3668.	4400.	0.	** 1320.	-116.	.83	22.	84.9	F	13.1	4.3
15	3	540.	816.	1352.	4368.	816.	1352.	4484.	5036.	564.	** 540.	-116.	.89	26.	57.0	F	12.6	3.6
16	2	1230.	0.	0.	3016.	0.	0.	3132.	4400.	0.	** 1230.	-116.	.71	15.	106.8	F	15.4	5.8
17	2	890.	688.	0.	3704.	688.	0.	3820.	4400.	0.	** 890.	-116.	.87	24.	78.7	F	19.1	3.9
18	3	4840.	272.	752.	3976.	272.	752.	4092.	5544.	56.	** 4840.	-116.	.74	16.	85.8	F	13.3	5.5
19	2	530.	0.	0.	3224.	0.	0.	3340.	3800.	0.	** 530.	-116.	.88	25.	66.3	F	19.3	3.8
20	2	1040.	660.	0.	3884.	660.	0.	4000.	4373.	27.	** 1040.	-116.	.91	29.	69.9	F	20.2	3.4
21	3	2810.	1004.	988.	4888.	1004.	1011.	5004.	5004.	596.	0.	0.	1.00	52.	32.4	E	30.3	2.3
22	2	1850.	0.	0.	3900.	0.	0.	3992.	4400.	0.	0.	0.	.91	57.	34.7	D	18.6	3.0
23	3	2390.	264.	168.	4164.	264.	172.	4256.	5539.	61.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1604.	3996.	0.	1500.	4085.	5580.	20.	0.	0.	.73	62.	22.0	C	17.2	4.8
25	2	1400.	0.	2392.	2392.	0.	2445.	2445.	3600.	0.	0.	0.	.68	62.	19.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 17.	87.2		13.8	5.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	590. VEH-HRS	668. PASS-HRS	9795. VEH-HRS	11088. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	6. VEH-HRS	6. PASS-HRS	701. VEH-HRS	794. PASS-HRS
OFF-RAMP DELAY =	193. VEH-HRS	218. PASS-HRS	2440. VEH-HRS	2762. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	789. VEH-HRS	893. PASS-HRS	12973. VEH-HRS	14685. PASS-HRS
TOTAL TRAV DISTANCE =	10117. VEH-MI.	11453. PASS-MI.	189302. VEH-MI.	214290. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		19. MPH.	
AVERAGE DENSITY =	87. VPMPL		76. VPMPL	
TOTAL FUEL =	810. GALLONS		14737. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		1102. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	0.	5.66	2.14	0.03	0.20	0.04	0.27
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	5.66	2.14	0.03	0.20	0.04	0.27
OFF-RAMP	11	OUTPUT POINT	789.	192.86	73.05	1.12	6.90	1.20	9.23

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1936.	96.	1936.	1936.	96.	2109.	4400.	0.	* 11405.	-173.	.48	8.	138.5	F	7.9	8.2
2	2	1970.	0.	0.	1840.	0.	0.	2013.	4100.	0.	** 1970.	-173.	.49	7.	136.5	F	7.8	8.3
3	2	1830.	376.	96.	2216.	376.	96.	2389.	4100.	0.	** 1830.	-173.	.58	10.	121.1	F	9.6	6.9
4	2	2010.	0.	0.	2120.	0.	0.	2293.	4100.	0.	** 2010.	-173.	.56	9.	125.0	F	9.0	7.3
5	2	2445.	536.	356.	2656.	536.	356.	2829.	4100.	0.	** 2445.	-173.	.69	14.	103.1	F	10.8	6.0
6	2	1890.	0.	0.	2300.	0.	0.	2473.	4100.	0.	** 1890.	-173.	.60	11.	117.7	F	9.8	6.7
7	2	5320.	812.	584.	3112.	812.	584.	3285.	4100.	0.	** 5320.	-173.	.80	19.	84.5	F	11.8	4.7
8	2	880.	0.	0.	2528.	0.	0.	2701.	3900.	0.	** 880.	-173.	.69	14.	97.7	F	11.5	6.0
9	2	1125.	232.	0.	2760.	232.	0.	2933.	3900.	0.	** 1125.	-173.	.75	17.	88.2	F	16.3	5.4
10	3	6320.	624.	340.	3384.	624.	340.	3557.	5600.	0.	** 6320.	-173.	.64	12.	102.3	F	13.4	6.5
11	2	2050.	0.	0.	3044.	0.	0.	3217.	4100.	0.	** 2050.	-173.	.78	18.	87.3	F	17.0	4.9
12	3	2560.	1008.	0.	4052.	1008.	0.	4225.	5501.	99.	** 2560.	-173.	.77	17.	80.6	F	13.6	5.2
13	3	1400.	0.	416.	4052.	0.	416.	4225.	5501.	99.	** 1400.	-173.	.77	17.	80.6	F	27.6	5.2
14	2	1320.	0.	0.	3636.	0.	0.	3809.	4400.	0.	** 1320.	-173.	.87	24.	79.1	F	13.6	3.9
15	3	540.	812.	1304.	4448.	812.	1304.	4621.	5028.	572.	** 540.	-173.	.92	29.	53.0	F	13.0	3.3
16	2	1230.	0.	0.	3144.	0.	0.	3317.	4400.	0.	** 1230.	-173.	.75	17.	99.2	F	16.3	5.3
17	2	890.	676.	0.	3820.	676.	0.	3993.	4399.	1.	** 890.	-173.	.91	28.	71.6	F	20.0	3.5
18	3	4840.	292.	696.	4112.	292.	696.	4285.	5546.	54.	** 4840.	-173.	.77	18.	80.5	F	13.7	5.1
19	2	530.	0.	0.	3416.	0.	0.	3589.	3800.	0.	** 530.	-173.	.94	32.	56.1	F	21.0	3.1
20	2	1040.	532.	0.	3948.	532.	0.	4121.	4378.	22.	** 1040.	-173.	.94	32.	65.2	F	20.9	3.1
21	3	2810.	948.	952.	4896.	948.	986.	5069.	5069.	531.	0.	0.	1.00	52.	32.8	E	30.3	2.3
22	2	1850.	0.	0.	3944.	0.	0.	4084.	4400.	0.	0.	0.	.93	56.	36.2	E	18.9	2.7
23	3	2390.	292.	152.	4236.	292.	157.	4376.	5535.	65.	0.	0.	.79	62.	23.5	C	24.1	4.8
24	3	960.	0.	1396.	4084.	0.	1500.	4219.	5577.	23.	0.	0.	.76	62.	22.7	C	17.2	4.8
25	2	1400.	0.	2688.	2688.	0.	2777.	2777.	3600.	0.	0.	0.	.77	62.	22.4	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 15. 93.7 13.1 5.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	627. VEH-HRS	710. PASS-HRS	10422. VEH-HRS	11798. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	701. VEH-HRS	794. PASS-HRS
OFF-RAMP DELAY =	195. VEH-HRS	221. PASS-HRS	2635. VEH-HRS	2983. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	823. VEH-HRS	931. PASS-HRS	13795. VEH-HRS	15616. PASS-HRS
TOTAL TRAV DISTANCE =	9603. VEH-MI.	10871. PASS-MI.	198906. VEH-MI.	225161. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		19. MPH.	
AVERAGE DENSITY =	94. VPMPL		77. VPMPL	
TOTAL FUEL =	809. GALLONS		15546. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		1163. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	774.	195.41	74.01	1.14	6.99	1.22	9.35

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2856.	72.	2856.	2856.	72.	2014.	4400.	0.	**12900.	842.	.46	7.	148.6	F	7.4	8.6
2	2	1970.	0.	0.	2784.	0.	0.	1942.	4100.	0.	** 1970.	842.	.47	7.	139.4	F	7.5	8.5
3	2	1830.	392.	140.	3176.	392.	140.	2334.	4100.	0.	** 1830.	842.	.57	9.	123.4	F	9.2	7.2
4	2	2010.	0.	0.	3036.	0.	0.	2194.	4100.	0.	** 2010.	842.	.54	8.	129.1	F	8.5	7.7
5	2	2445.	532.	448.	3568.	532.	448.	2726.	4024.	76.	** 2445.	842.	.68	13.	103.3	F	10.6	6.1
6	2	1890.	0.	0.	3120.	0.	0.	2278.	4100.	0.	** 1890.	842.	.56	9.	125.7	F	8.9	7.4
7	2	5320.	776.	580.	3896.	776.	580.	3054.	4100.	0.	** 5320.	842.	.74	16.	94.0	F	11.4	5.4
8	2	880.	0.	0.	3316.	0.	0.	2474.	3900.	0.	** 880.	842.	.63	12.	107.0	F	10.7	6.5
9	2	1125.	236.	0.	3552.	236.	0.	2710.	3900.	0.	** 1125.	842.	.69	14.	97.3	F	14.8	6.0
10	3	6320.	584.	292.	4136.	584.	292.	3294.	5594.	6.	** 6320.	842.	.59	10.	109.2	F	12.6	6.8
11	2	2050.	0.	0.	3844.	0.	0.	3002.	4100.	0.	** 2050.	842.	.73	16.	96.1	F	15.9	5.6
12	3	2560.	884.	0.	4728.	884.	0.	3886.	5516.	84.	** 2560.	842.	.70	14.	90.3	F	12.8	5.9
13	3	1400.	0.	456.	4728.	0.	456.	3886.	5516.	84.	** 1400.	842.	.70	14.	90.3	F	23.3	5.9
14	2	1320.	0.	0.	4272.	0.	0.	3430.	4400.	0.	** 1320.	842.	.78	18.	94.6	F	12.4	5.0
15	3	540.	900.	1308.	5172.	900.	1246.	4330.	4928.	672.	** 540.	598.	.88	25.	57.3	F	12.4	3.8
16	2	1230.	0.	0.	3864.	0.	0.	3084.	4400.	0.	** 1230.	598.	.70	14.	108.8	F	15.0	5.9
17	2	890.	756.	0.	4620.	756.	0.	3840.	4393.	7.	** 890.	553.	.87	25.	77.5	F	19.2	3.8
18	3	4840.	280.	780.	4900.	280.	744.	4120.	5519.	81.	** 4840.	553.	.75	16.	84.1	F	13.4	5.4
19	2	530.	0.	0.	4120.	0.	0.	3376.	3800.	0.	** 530.	424.	.89	26.	64.8	F	19.6	3.7
20	2	1040.	560.	0.	4680.	560.	0.	3936.	4371.	29.	** 1040.	424.	.90	27.	72.4	F	19.9	3.5
21	3	2810.	988.	1124.	5668.	988.	977.	4924.	4924.	676.	0.	0.	1.00	52.	31.8	E	30.3	2.3
22	2	1850.	0.	0.	4544.	0.	0.	3947.	4400.	0.	0.	0.	.90	58.	34.1	D	18.5	3.1
23	3	2390.	272.	128.	4816.	272.	112.	4219.	5537.	63.	0.	0.	.76	62.	22.7	C	24.1	4.8
24	3	960.	0.	1584.	4688.	0.	1500.	4107.	5576.	24.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	3104.	3104.	0.	2720.	2720.	3600.	0.	0.	0.	.76	62.	21.9	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 14.	100.0		12.4	5.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	671. VEH-HRS	760. PASS-HRS	11093. VEH-HRS	12558. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	26. VEH-HRS	30. PASS-HRS	727. VEH-HRS	823. PASS-HRS
OFF-RAMP DELAY =	190. VEH-HRS	215. PASS-HRS	2825. VEH-HRS	3198. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	888. VEH-HRS	1005. PASS-HRS	14683. VEH-HRS	16622. PASS-HRS
TOTAL TRAV DISTANCE =	9110. VEH-MI.	10313. PASS-MI.	208016. VEH-MI.	235474. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		19. MPH.	
AVERAGE DENSITY =	100. VPMPL		78. VPMPL	
TOTAL FUEL =	815. GALLONS		16361. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		1227. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	210.	26.30	9.96	0.15	0.94	0.16	1.26
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	210.	26.30	9.96	0.15	0.94	0.16	1.26
OFF-RAMP	11	OUTPUT POINT	746.	190.09	72.00	1.11	6.80	1.19	9.09

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2640.	52.	2640.	2640.	52.	1714.	4400.	0.	**12900.	926.	.39	5.	164.7	F	6.7	9.5
2	2	1970.	0.	0.	2588.	0.	0.	1662.	4100.	0.	** 1970.	926.	.41	6.	150.8	F	6.9	9.3
3	2	1830.	476.	96.	3064.	476.	96.	2138.	4100.	0.	** 1830.	926.	.52	8.	131.4	F	8.2	7.9
4	2	2010.	0.	0.	2968.	0.	0.	2042.	4100.	0.	** 2010.	926.	.50	8.	135.3	F	7.9	8.2
5	2	2445.	608.	412.	3576.	608.	412.	2650.	4015.	85.	** 2445.	926.	.66	13.	105.9	F	10.4	6.3
6	2	1890.	0.	0.	3164.	0.	0.	2238.	4100.	0.	** 1890.	926.	.55	9.	127.3	F	8.7	7.5
7	2	5320.	728.	496.	3892.	728.	496.	2966.	4100.	0.	** 5320.	926.	.72	15.	97.6	F	11.2	5.7
8	2	880.	0.	0.	3396.	0.	0.	2470.	3900.	0.	** 880.	926.	.63	12.	107.1	F	10.7	6.5
9	2	1125.	220.	0.	3616.	220.	0.	2690.	3900.	0.	** 1125.	926.	.69	14.	98.2	F	14.7	6.0
10	3	6320.	536.	312.	4152.	536.	312.	3226.	5594.	6.	** 6320.	926.	.58	10.	111.1	F	12.1	7.0
11	2	2050.	0.	0.	3840.	0.	0.	2914.	4100.	0.	** 2050.	926.	.71	15.	99.7	F	15.3	5.8
12	3	2560.	684.	0.	4524.	684.	0.	3598.	5536.	64.	** 2560.	926.	.65	12.	98.9	F	11.9	6.4
13	3	1400.	0.	432.	4524.	0.	432.	3598.	5536.	64.	** 1400.	926.	.65	12.	98.9	F	20.1	6.4
14	2	1320.	0.	0.	4092.	0.	0.	3166.	4400.	0.	** 1320.	926.	.72	15.	105.4	F	11.9	5.7
15	3	540.	932.	1244.	5024.	932.	1213.	4098.	4900.	700.	** 540.	802.	.84	22.	62.7	F	11.7	4.3
16	2	1230.	0.	0.	3780.	0.	0.	2885.	4400.	0.	** 1230.	802.	.66	12.	116.9	F	13.8	6.3
17	2	890.	740.	0.	4520.	740.	0.	3625.	4394.	6.	** 890.	768.	.83	21.	86.3	F	18.1	4.4
18	3	4840.	296.	608.	4816.	296.	592.	3921.	5538.	62.	** 4840.	768.	.71	14.	90.2	F	12.9	5.8
19	2	530.	0.	0.	4208.	0.	0.	3329.	3800.	0.	** 530.	471.	.88	25.	66.7	F	19.3	3.8
20	2	1040.	556.	0.	4764.	556.	0.	3885.	4372.	28.	** 1040.	471.	.89	26.	74.6	F	19.6	3.7
21	3	2810.	996.	1132.	5760.	996.	959.	4881.	4881.	719.	0.	0.	1.00	52.	31.6	E	30.3	2.3
22	2	1850.	0.	0.	4628.	0.	0.	3922.	4400.	0.	0.	0.	.89	58.	33.7	D	18.4	3.2
23	3	2390.	296.	132.	4924.	296.	113.	4218.	5540.	60.	0.	0.	.76	62.	22.7	C	24.1	4.8
24	3	960.	0.	1404.	4792.	0.	1500.	4105.	5576.	24.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	3388.	3388.	0.	2903.	2903.	3600.	0.	0.	0.	.81	62.	23.4	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 12. 106.5 12.0 6.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	712. VEH-HRS	806. PASS-HRS	11806. VEH-HRS	13364. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	55. VEH-HRS	63. PASS-HRS	783. VEH-HRS	886. PASS-HRS
OFF-RAMP DELAY =	177. VEH-HRS	201. PASS-HRS	3002. VEH-HRS	3399. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	945. VEH-HRS	1070. PASS-HRS	15628. VEH-HRS	17691. PASS-HRS
TOTAL TRAV DISTANCE =	8652. VEH-MI.	9794. PASS-MI.	216667. VEH-MI.	245268. PASS-MI.
AVERAGE SYSTEM SPEED =	9. MPH.		18. MPH.	
AVERAGE DENSITY =	107. VPMPL		80. VPMPL	
TOTAL FUEL =	809. GALLONS		17169. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		1291. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	231.	55.23	20.92	0.32	1.98	0.34	2.64
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	231.	55.23	20.92	0.32	1.98	0.34	2.64
OFF-RAMP	11	OUTPUT POINT	672.	177.29	67.15	1.03	6.34	1.11	8.48

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2656.	68.	2656.	2656.	68.	1958.	4400.	0.	**12900.	698.	.44	6.	154.8	F	7.2	8.9
2	2	1970.	0.	0.	2588.	0.	0.	1890.	4100.	0.	** 1970.	698.	.46	7.	141.5	F	7.4	8.7
3	2	1830.	584.	196.	3172.	584.	196.	2474.	4060.	40.	** 1830.	698.	.61	11.	115.5	F	9.9	6.7
4	2	2010.	0.	0.	2976.	0.	0.	2278.	4100.	0.	** 2010.	698.	.56	9.	125.7	F	8.9	7.4
5	2	2445.	612.	472.	3588.	612.	472.	2890.	3963.	137.	** 2445.	698.	.73	15.	93.4	F	11.3	5.6
6	2	1890.	0.	0.	3116.	0.	0.	2418.	4100.	0.	** 1890.	698.	.59	10.	120.0	F	9.7	6.8
7	2	5320.	796.	548.	3912.	796.	548.	3214.	4100.	0.	** 5320.	698.	.78	18.	87.5	F	11.7	5.0
8	2	880.	0.	0.	3364.	0.	0.	2666.	3900.	0.	** 880.	698.	.68	13.	99.2	F	11.3	6.1
9	2	1125.	208.	0.	3572.	208.	0.	2874.	3900.	0.	** 1125.	698.	.74	16.	90.7	F	15.9	5.5
10	3	6320.	600.	352.	4172.	600.	352.	3474.	5594.	6.	** 6320.	698.	.62	11.	104.4	F	13.1	6.6
11	2	2050.	0.	0.	3820.	0.	0.	3122.	4100.	0.	** 2050.	698.	.76	17.	91.2	F	16.5	5.2
12	3	2560.	676.	0.	4496.	676.	0.	3798.	5528.	72.	** 2560.	698.	.69	14.	93.2	F	12.5	6.0
13	3	1400.	0.	484.	4496.	0.	484.	3798.	5528.	72.	** 1400.	698.	.69	14.	93.2	F	22.2	6.0
14	2	1320.	0.	0.	4012.	0.	0.	3314.	4400.	0.	** 1320.	698.	.75	17.	99.4	F	12.2	5.3
15	3	540.	900.	1300.	4912.	900.	1300.	4214.	4940.	660.	** 540.	698.	.85	23.	60.9	F	12.0	4.1
16	2	1230.	0.	0.	3612.	0.	0.	2914.	4400.	0.	** 1230.	698.	.66	13.	115.7	F	14.0	6.3
17	2	890.	740.	0.	4352.	740.	0.	3654.	4395.	5.	** 890.	698.	.83	21.	85.2	F	18.2	4.3
18	3	4840.	296.	708.	4648.	296.	708.	3950.	5529.	71.	** 4840.	698.	.71	15.	89.1	F	13.1	5.8
19	2	530.	0.	0.	3940.	0.	0.	3242.	3800.	0.	** 530.	558.	.85	23.	70.3	F	18.7	4.1
20	2	1040.	580.	0.	4520.	580.	0.	3822.	4367.	33.	** 1040.	545.	.88	25.	76.9	F	19.3	3.8
21	3	2810.	1016.	1280.	5536.	1016.	1119.	4838.	4838.	762.	0.	0.	1.00	52.	31.3	E	30.3	2.3
22	2	1850.	0.	0.	4256.	0.	0.	3719.	4400.	0.	0.	0.	.85	60.	31.0	D	18.0	3.6
23	3	2390.	248.	176.	4504.	248.	154.	3967.	5540.	60.	0.	0.	.72	62.	21.3	C	24.1	4.8
24	3	960.	0.	1496.	4328.	0.	1500.	3813.	5578.	22.	0.	0.	.68	62.	20.5	C	17.2	4.8
25	2	1400.	0.	2832.	2832.	0.	2495.	2495.	3600.	0.	0.	0.	.69	62.	20.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 14.	99.8		12.4	5.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	669. VEH-HRS	757. PASS-HRS	12475. VEH-HRS	14121. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	37. VEH-HRS	42. PASS-HRS
ON-RAMP MRG/CAP DELAY =	51. VEH-HRS	57. PASS-HRS	833. VEH-HRS	943. PASS-HRS
OFF-RAMP DELAY =	162. VEH-HRS	184. PASS-HRS	3165. VEH-HRS	3582. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	882. VEH-HRS	998. PASS-HRS	16510. VEH-HRS	18690. PASS-HRS
TOTAL TRAV DISTANCE =	9052. VEH-MI.	10247. PASS-MI.	225720. VEH-MI.	255515. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		18. MPH.	
AVERAGE DENSITY =	100. VPMPL		80. VPMPL	
TOTAL FUEL =	809. GALLONS		17979. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		1354. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	175.	50.74	19.22	0.30	1.82	0.32	2.43
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	175.	50.74	19.22	0.30	1.82	0.32	2.43
OFF-RAMP	11	OUTPUT POINT	626.	162.31	61.47	0.94	5.81	1.01	7.77

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	152.	172.	15.	17.	167.	189.	9360.	10596.	56.1	567.	2.	30.	12.	6:00
2	194.	220.	43.	49.	238.	269.	11359.	12858.	47.8	681.	2.	31.	14.	6:15
3	245.	278.	69.	78.	314.	356.	12061.	13653.	38.4	729.	2.	30.	13.	6:30
4	321.	364.	144.	163.	465.	527.	11283.	12772.	24.3	759.	4.	37.	13.	6:45
5	385.	436.	178.	202.	563.	637.	10639.	12043.	18.9	763.	4.	39.	13.	7:00
6	430.	487.	168.	191.	599.	678.	10622.	12024.	17.7	771.	4.	39.	13.	7:15
7	473.	536.	189.	214.	662.	750.	10278.	11635.	15.5	773.	5.	41.	12.	7:30
8	540.	611.	168.	190.	708.	802.	10035.	11360.	14.2	785.	5.	42.	12.	7:45
9	607.	687.	158.	179.	765.	866.	9771.	11061.	12.8	805.	6.	43.	11.	8:00
10	735.	832.	202.	229.	937.	1061.	8368.	9473.	8.9	804.	6.	46.	10.	8:15
11	711.	805.	231.	262.	943.	1067.	8565.	9696.	9.1	819.	7.	47.	11.	8:30
12	611.	691.	212.	239.	822.	931.	9780.	11071.	11.9	810.	6.	45.	11.	8:45
13	617.	698.	213.	241.	829.	939.	9723.	11007.	11.7	815.	6.	45.	11.	9:00
14	664.	752.	226.	256.	890.	1007.	9143.	10350.	10.3	822.	6.	47.	11.	9:15
15	630.	713.	216.	244.	846.	958.	9479.	10731.	11.2	814.	6.	46.	11.	9:30
16	600.	679.	182.	206.	782.	885.	9882.	11187.	12.6	803.	6.	45.	11.	9:45
17	638.	722.	173.	196.	811.	918.	9480.	10732.	11.7	798.	6.	45.	11.	10:00
18	649.	735.	193.	218.	842.	953.	9355.	10590.	11.1	810.	6.	45.	11.	10:15
19	590.	668.	199.	225.	789.	893.	10117.	11453.	12.8	810.	6.	44.	11.	10:30
20	627.	710.	195.	221.	823.	931.	9603.	10871.	11.7	809.	6.	45.	11.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	671.	760.	216.	245.	888.	1005.	9110.	10313.	10.3	815.	6.	46.	11.	11:00
22	712.	806.	233.	263.	945.	1070.	8652.	9794.	9.2	809.	6.	47.	11.	11:15
23	669.	757.	213.	241.	882.	998.	9052.	10247.	10.3	809.	6.	46.	11.	11:30
TOTAL	12475.	14121.	4035.	4568.	16510.	18690.	225720.	255515.	18.1	17979.	119.	969.	266.	

Existing (2019) plus Final Build
(Aux Lanes and BOS)
Northbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2844.	84.	2844.	2844.	84.	2844.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
2	2	1970.	0.	0.	2760.	0.	0.	2760.	4100.	0.	0.	0.	.67	62.	22.3	C	13.6	4.8
3	2	1830.	244.	116.	3004.	244.	116.	3004.	4100.	0.	0.	0.	.73	62.	24.2	C	13.6	4.8
4	2	2010.	0.	0.	2888.	0.	0.	2888.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
5	2	2445.	740.	400.	3628.	740.	400.	3628.	3956.	144.	0.	0.	.92	57.	31.8	D	14.7	2.9
6	2	1890.	0.	0.	3228.	0.	0.	3228.	4400.	0.	0.	0.	.73	62.	26.1	D	13.6	4.7
7	2	5320.	516.	696.	3744.	516.	696.	3744.	4100.	0.	0.	0.	.91	57.	32.7	D	14.7	2.9
8	2	880.	0.	0.	3048.	0.	0.	3048.	4400.	0.	0.	0.	.69	62.	24.6	C	14.9	4.8
9	2	1125.	220.	0.	3268.	220.	0.	3268.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
10	3	6320.	572.	368.	3840.	572.	368.	3840.	5595.	5.	0.	0.	.69	62.	20.6	C	19.9	4.8
11	2	2050.	0.	0.	3472.	0.	0.	3472.	4100.	0.	0.	0.	.85	60.	29.0	D	21.0	3.6
12	3	2560.	1256.	0.	4728.	1256.	0.	4728.	5496.	104.	0.	0.	.86	59.	26.5	D	18.1	3.5
13	3	1400.	0.	392.	4728.	0.	392.	4728.	5496.	104.	0.	0.	.86	59.	26.5	D	34.5	3.5
14	2	1320.	0.	0.	4336.	0.	0.	4336.	4400.	0.	0.	0.	.99	53.	41.1	E	17.0	2.4
15	3	540.	724.	1372.	5060.	724.	1372.	5060.	5072.	528.	0.	0.	.99	52.	32.6	D	14.5	2.3
16	2	1230.	0.	0.	3688.	0.	0.	3688.	4400.	0.	0.	0.	.84	60.	30.7	D	20.9	3.7
17	2	890.	692.	0.	4380.	692.	0.	4380.	4394.	6.	0.	0.	.99	52.	42.3	E	22.9	2.3
18	3	4840.	284.	804.	4664.	284.	804.	4604.	5524.	76. *	585.	60.	.83	54.	28.3	F	17.8	3.6
19	2	530.	0.	0.	3860.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	368.	0.	4228.	368.	0.	4168.	4384.	16.	0.	0.	.95	55.	37.8	E	22.3	2.4
21	3	2810.	504.	824.	4732.	504.	814.	4672.	5491.	109.	0.	0.	.85	60.	26.1	D	25.5	3.6
22	2	1850.	0.	0.	3908.	0.	0.	3858.	4400.	0.	0.	0.	.88	59.	32.8	D	18.3	3.3
23	3	2390.	308.	108.	4216.	308.	107.	4166.	5527.	73.	0.	0.	.75	62.	22.4	C	24.1	4.8
24	3	960.	0.	1460.	4108.	0.	1443.	4060.	5575.	25.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2648.	2648.	0.	2617.	2617.	3600.	0.	0.	0.	.73	62.	21.1	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 59.	27.2		17.8	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	162. VEH-HRS	202. PASS-HRS	162. VEH-HRS	202. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	162. VEH-HRS	202. PASS-HRS	162. VEH-HRS	202. PASS-HRS
TOTAL TRAV DISTANCE =	9533. VEH-MI.	11860. PASS-MI.	9533. VEH-MI.	11860. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	27. VPMPL		27. VPMPL	
TOTAL FUEL =	536. GALLONS		536. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		37. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2964.	72.	2964.	2964.	72.	2964.	4100.	0.	0.	0.	.72	62.	23.9	C	13.6	4.8
2	2	1970.	0.	0.	2892.	0.	0.	2892.	4100.	0.	0.	0.	.71	62.	23.3	C	13.6	4.8
3	2	1830.	388.	108.	3280.	388.	108.	3280.	4100.	0.	0.	0.	.80	61.	26.9	D	13.8	4.2
4	2	2010.	0.	0.	3172.	0.	0.	3172.	4400.	0.	0.	0.	.72	62.	25.6	C	13.6	4.7
5	2	2445.	440.	420.	3612.	440.	420.	3612.	4100.	0.	0.	0.	.88	59.	30.8	D	14.4	3.3
6	2	1890.	0.	0.	3192.	0.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	13.6	4.7
7	2	5320.	608.	680.	3800.	608.	680.	3800.	4100.	0.	0.	0.	.93	56.	33.6	D	14.8	2.8
8	2	880.	0.	0.	3120.	0.	0.	3120.	4400.	0.	0.	0.	.71	62.	25.2	C	14.9	4.8
9	2	1125.	168.	0.	3288.	168.	0.	3288.	4400.	0.	0.	0.	.75	62.	26.6	D	20.1	4.6
10	3	6320.	616.	324.	3904.	616.	324.	3904.	5596.	4.	0.	0.	.70	62.	21.0	C	19.9	4.8
11	2	2050.	0.	0.	3580.	0.	0.	3580.	4100.	0.	0.	0.	.87	59.	30.4	D	21.2	3.4
12	3	2560.	1148.	0.	4728.	1148.	0.	4512.	5480.	120.	* 80.	216.	.82	59.	25.4	F	18.2	3.5
13	3	1400.	0.	492.	4728.	0.	492.	4512.	5480.	120.	** 1400.	216.	.82	36.	42.3	F	33.7	3.8
14	2	1320.	0.	0.	4236.	0.	0.	4020.	4400.	0.	** 1320.	216.	.91	31.	65.4	F	14.7	3.2
15	3	540.	908.	1332.	5144.	908.	1276.	4928.	4928.	672.	0.	0.	1.00	52.	31.9	E	14.5	2.3
16	2	1230.	0.	0.	3812.	0.	0.	3645.	4400.	0.	* 84.	7.	.83	57.	32.1	F	20.7	3.8
17	2	890.	748.	0.	4560.	748.	0.	4393.	4393.	7.	0.	0.	1.00	52.	42.6	E	23.0	2.3
18	3	4840.	332.	748.	4892.	332.	723.	4523.	5522.	78.	* 2486.	202.	.82	38.	40.1	F	16.8	3.8
19	2	530.	0.	0.	4144.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	356.	0.	4500.	356.	0.	4156.	4384.	16.	0.	0.	.95	55.	37.6	E	22.3	2.5
21	3	2810.	536.	912.	5036.	536.	850.	4692.	5421.	179.	0.	0.	.87	59.	26.4	D	25.7	3.4
22	2	1850.	0.	0.	4124.	0.	0.	3842.	4400.	0.	0.	0.	.87	59.	32.6	D	18.3	3.4
23	3	2390.	320.	236.	4444.	320.	221.	4162.	5527.	73.	0.	0.	.75	62.	22.4	C	24.1	4.8
24	3	960.	0.	1488.	4208.	0.	1394.	3941.	5574.	26.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2720.	2720.	0.	2548.	2548.	3600.	0.	0.	0.	.71	62.	20.5	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 54.	29.7		17.6	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	180. VEH-HRS	224. PASS-HRS	342. VEH-HRS	425. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	180. VEH-HRS	224. PASS-HRS	342. VEH-HRS	425. PASS-HRS
TOTAL TRAV DISTANCE =	9621. VEH-MI.	11968. PASS-MI.	19154. VEH-MI.	23828. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		56. MPH.	
AVERAGE DENSITY =	30. VPMPL		28. VPMPL	
TOTAL FUEL =	548. GALLONS		1084. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		74. KILOGRAMS	

QUEUE CLEAR SECTION 16 T2 =0.235

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3216.	120.	3216.	3216.	120.	3216.	4100.	0.	0.	0.	.78	61.	26.2	D	13.8	4.4
2	2	1970.	0.	0.	3096.	0.	0.	3096.	4100.	0.	0.	0.	.76	62.	25.1	C	13.7	4.6
3	2	1830.	360.	132.	3456.	360.	132.	3456.	4100.	0.	0.	0.	.84	60.	28.8	D	14.1	3.6
4	2	2010.	0.	0.	3324.	0.	0.	3324.	4400.	0.	0.	0.	.76	62.	27.0	D	13.7	4.6
5	2	2445.	388.	396.	3712.	388.	396.	3712.	4100.	0.	0.	0.	.91	58.	32.2	D	14.6	3.0
6	2	1890.	0.	0.	3316.	0.	0.	3316.	4400.	0.	0.	0.	.75	62.	26.9	D	13.7	4.6
7	2	5320.	624.	532.	3940.	624.	532.	3940.	4100.	0.	0.	0.	.96	54.	36.2	E	15.2	2.4
8	2	880.	0.	0.	3408.	0.	0.	3408.	4400.	0.	0.	0.	.77	61.	27.7	D	15.1	4.4
9	2	1125.	200.	0.	3608.	200.	0.	3608.	4400.	0.	0.	0.	.82	61.	29.8	D	20.6	4.0
10	3	6320.	596.	308.	4204.	596.	308.	4204.	5594.	6.	0.	0.	.75	62.	22.6	C	19.9	4.8
11	2	2050.	0.	0.	3896.	0.	0.	3896.	4100.	0.	0.	0.	.95	55.	35.3	E	22.3	2.4
12	3	2560.	880.	0.	4776.	880.	0.	4636.	5508.	92.	* 1521.	140.	.84	39.	39.5	F	17.0	3.7
13	3	1400.	0.	492.	4776.	0.	492.	4636.	5508.	92.	** 1400.	140.	.84	22.	69.6	F	33.4	4.2
14	2	1320.	0.	0.	4284.	0.	0.	4144.	4400.	0.	** 1320.	140.	.94	32.	65.5	F	14.8	3.1
15	3	540.	848.	1456.	5132.	848.	1416.	4992.	4992.	608.	0.	0.	1.00	52.	32.3	E	14.5	2.3
16	2	1230.	0.	0.	3676.	0.	0.	3584.	4400.	0.	0.	-8.	.81	57.	31.4	D	20.4	4.1
17	2	890.	700.	0.	4376.	700.	0.	4284.	4394.	6.	0.	0.	.97	53.	40.1	E	22.6	2.4
18	3	4840.	252.	820.	4628.	252.	804.	4604.	5521.	79.	* 1845.	-68.	.83	34.	45.6	F	15.9	4.6
19	2	530.	0.	0.	3808.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	384.	0.	4192.	384.	0.	4184.	4384.	16.	0.	0.	.95	55.	38.1	E	22.4	2.4
21	3	2810.	664.	820.	4856.	664.	819.	4848.	5388.	212.	0.	0.	.90	58.	27.9	D	26.5	3.1
22	2	1850.	0.	0.	4036.	0.	0.	4029.	4400.	0.	0.	0.	.92	57.	35.3	E	18.7	2.9
23	3	2390.	348.	116.	4384.	348.	116.	4377.	5513.	87.	0.	0.	.79	62.	23.5	C	24.1	4.8
24	3	960.	0.	1596.	4268.	0.	1500.	4262.	5569.	31.	0.	0.	.77	62.	22.9	C	17.2	4.8
25	2	1400.	0.	2672.	2672.	0.	2668.	2668.	3600.	0.	0.	0.	.74	62.	21.5	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 50.	33.0		17.6	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	201. VEH-HRS	250. PASS-HRS	543. VEH-HRS	675. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	3. VEH-HRS	4. PASS-HRS	3. VEH-HRS	4. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	204. VEH-HRS	253. PASS-HRS	545. VEH-HRS	679. PASS-HRS
TOTAL TRAV DISTANCE =	9980. VEH-MI.	12415. PASS-MI.	29134. VEH-MI.	36243. PASS-MI.
AVERAGE SYSTEM SPEED =	49. MPH.		54. MPH.	
AVERAGE DENSITY =	33. VPMPL		30. VPMPL	
TOTAL FUEL =	570. GALLONS		1654. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		112. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	23.	2.93	1.11	0.02	0.10	0.02	0.14

QUEUE CLEAR SECTION 18 FT= 35

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2980.	124.	2980.	2980.	124.	2980.	4100.	0.	0.	0.	.73	62.	24.0	C	13.6	4.8
2	2	1970.	0.	0.	2856.	0.	0.	2856.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
3	2	1830.	284.	156.	3140.	284.	156.	3140.	4100.	0.	0.	0.	.77	62.	25.5	C	13.7	4.5
4	2	2010.	0.	0.	2984.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	13.6	4.8
5	2	2445.	516.	460.	3500.	516.	460.	3500.	4041.	59.	0.	0.	.87	59.	29.6	D	14.3	3.4
6	2	1890.	0.	0.	3040.	0.	0.	3040.	4400.	0.	0.	0.	.69	62.	24.5	C	13.6	4.8
7	2	5320.	608.	524.	3648.	608.	524.	3648.	4100.	0.	0.	0.	.89	58.	31.3	D	14.5	3.2
8	2	880.	0.	0.	3124.	0.	0.	3124.	4400.	0.	0.	0.	.71	62.	25.2	C	14.9	4.7
9	2	1125.	180.	0.	3304.	180.	0.	3304.	4400.	0.	0.	0.	.75	62.	26.8	D	20.1	4.6
10	3	6320.	524.	356.	3828.	524.	356.	3828.	5596.	4.	0.	0.	.68	62.	20.6	C	19.9	4.8
11	2	2050.	0.	0.	3472.	0.	0.	3472.	4100.	0.	0.	0.	.85	60.	29.0	D	21.0	3.6
12	3	2560.	844.	0.	4316.	844.	0.	4368.	5508.	92.	* 1096.	-52.	.79	29.	51.0	F	15.4	4.8
13	3	1400.	0.	476.	4316.	0.	476.	4368.	5508.	92.	** 1400.	-52.	.79	19.	76.9	F	29.8	4.8
14	2	1320.	0.	0.	3840.	0.	0.	3892.	4400.	0.	** 1320.	-52.	.88	26.	75.8	F	13.9	3.7
15	3	540.	1020.	1576.	4860.	1020.	1593.	4912.	4912.	688.	0.	0.	1.00	52.	31.8	E	14.5	2.3
16	2	1230.	0.	0.	3284.	0.	0.	3319.	4400.	0.	0.	0.	.75	62.	26.9	D	20.1	4.6
17	2	890.	628.	0.	3912.	628.	0.	3947.	4399.	1.	0.	0.	.90	58.	34.1	D	21.5	3.1
18	3	4840.	256.	908.	4168.	256.	916.	4425.	5537.	63.	0.	-221.	.80	43.	34.4	D	16.4	4.8
19	2	530.	0.	0.	3260.	0.	0.	3509.	3800.	0.	0.	0.	.92	57.	31.0	D	21.8	2.8
20	2	1040.	452.	0.	3712.	452.	0.	3961.	4381.	19.	0.	0.	.90	58.	34.4	D	21.6	3.0
21	3	2810.	580.	936.	4292.	580.	990.	4541.	5399.	201.	0.	0.	.84	62.	24.4	C	24.1	4.8
22	2	1850.	0.	0.	3356.	0.	0.	3551.	4400.	0.	0.	0.	.81	61.	29.2	D	17.6	4.1
23	3	2390.	588.	240.	3944.	588.	252.	4139.	5480.	120.	0.	0.	.76	62.	22.3	C	24.1	4.8
24	3	960.	0.	1612.	3704.	0.	1500.	3887.	5566.	34.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	2092.	2092.	0.	2195.	2195.	3600.	0.	0.	0.	.61	62.	17.7	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 50.	30.3		17.1	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	184. VEH-HRS	229. PASS-HRS	727. VEH-HRS	904. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	12. VEH-HRS	15. PASS-HRS	15. VEH-HRS	18. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	196. VEH-HRS	244. PASS-HRS	741. VEH-HRS	922. PASS-HRS
TOTAL TRAV DISTANCE =	9193. VEH-MI.	11437. PASS-MI.	38327. VEH-MI.	47679. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		53. MPH.	
AVERAGE DENSITY =	30. VPMPL		30. VPMPL	
TOTAL FUEL =	543. GALLONS		2197. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		152. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	71.	11.85	4.49	0.07	0.42	0.07	0.57

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3128.	120.	3128.	3128.	120.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	13.7	4.5
2	2	1970.	0.	0.	3008.	0.	0.	3008.	4100.	0.	0.	0.	.73	62.	24.3	C	13.6	4.8
3	2	1830.	256.	204.	3264.	256.	204.	3264.	4100.	0.	0.	0.	.80	61.	26.7	D	13.8	4.2
4	2	2010.	0.	0.	3060.	0.	0.	3060.	4400.	0.	0.	0.	.70	62.	24.7	C	13.6	4.8
5	2	2445.	720.	340.	3780.	720.	340.	3780.	4003.	97.	0.	0.	.94	55.	34.1	D	15.1	2.5
6	2	1890.	0.	0.	3440.	0.	0.	3440.	4400.	0.	0.	0.	.78	61.	28.1	D	13.8	4.4
7	2	5320.	652.	736.	4092.	652.	736.	4092.	4100.	0.	0.	0.	.99	52.	39.6	E	15.7	2.3
8	2	880.	0.	0.	3356.	0.	0.	3356.	4400.	0.	0.	0.	.76	62.	27.3	D	15.0	4.5
9	2	1125.	232.	0.	3588.	232.	0.	3588.	4400.	0.	0.	0.	.82	61.	29.6	D	20.6	4.0
10	3	6320.	496.	368.	4084.	496.	368.	4084.	5592.	8.	0.	0.	.73	62.	22.0	C	19.9	4.8
11	2	2050.	0.	0.	3716.	0.	0.	3404.	4100.	0.	* 1544.	312.	.83	48.	35.8	F	21.1	3.2
12	3	2560.	716.	0.	4432.	716.	0.	4120.	5524.	76.	** 2560.	312.	.75	19.	72.1	F	14.0	5.3
13	3	1400.	0.	468.	4432.	0.	468.	4120.	5524.	76.	** 1400.	312.	.75	16.	84.3	F	26.0	5.4
14	2	1320.	0.	0.	3964.	0.	0.	3652.	4400.	0.	** 1320.	312.	.83	21.	85.6	F	13.0	4.4
15	3	540.	1116.	1296.	5080.	1116.	1216.	4768.	4768.	832.	0.	0.	1.00	52.	30.8	E	14.5	2.3
16	2	1230.	0.	0.	3784.	0.	0.	3552.	4400.	0.	0.	0.	.81	61.	29.2	D	20.5	4.1
17	2	890.	580.	0.	4364.	580.	0.	4132.	4395.	5.	0.	0.	.94	56.	37.1	E	22.1	2.6
18	3	4840.	204.	792.	4568.	204.	752.	4336.	5537.	63.	0.	0.	.78	62.	23.3	C	17.2	4.8
19	2	530.	0.	0.	3776.	0.	0.	3584.	3800.	0.	0.	0.	.94	56.	32.3	D	22.2	2.5
20	2	1040.	368.	0.	4144.	368.	0.	3952.	4385.	15.	0.	0.	.90	58.	34.2	D	21.5	3.1
21	3	2810.	660.	796.	4804.	660.	764.	4612.	5418.	182.	0.	0.	.85	62.	24.8	C	24.1	4.8
22	2	1850.	0.	0.	4008.	0.	0.	3848.	4400.	0.	0.	0.	.87	59.	32.7	D	18.3	3.3
23	3	2390.	376.	176.	4384.	376.	170.	4224.	5513.	87.	0.	0.	.77	62.	22.7	C	24.1	4.8
24	3	960.	0.	1480.	4208.	0.	1500.	4054.	5569.	31.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2728.	2728.	0.	2628.	2628.	3600.	0.	0.	0.	.73	62.	21.2	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 48. 33.0 17.2 4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	201. VEH-HRS	249. PASS-HRS	927. VEH-HRS	1153. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	16. VEH-HRS	19. PASS-HRS	30. VEH-HRS	38. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	216. VEH-HRS	269. PASS-HRS	957. VEH-HRS	1191. PASS-HRS
TOTAL TRAV DISTANCE =	9620. VEH-MI.	11967. PASS-MI.	47947. VEH-MI.	59646. PASS-MI.
AVERAGE SYSTEM SPEED =	45. MPH.		52. MPH.	
AVERAGE DENSITY =	33. VPMPL		31. VPMPL	
TOTAL FUEL =	564. GALLONS		2761. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		193. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	53.	15.52	5.88	0.09	0.56	0.10	0.74

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2936.	124.	2936.	2936.	124.	2936.	4100.	0.	0.	0.	.72	62.	23.7	C	13.6	4.8
2	2	1970.	0.	0.	2812.	0.	0.	2812.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
3	2	1830.	260.	160.	3072.	260.	160.	3072.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
4	2	2010.	0.	0.	2912.	0.	0.	2912.	4400.	0.	0.	0.	.66	62.	23.5	C	13.6	4.8
5	2	2445.	612.	320.	3524.	612.	320.	3524.	4060.	40.	0.	0.	.87	59.	29.8	D	14.3	3.4
6	2	1890.	0.	0.	3204.	0.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	13.6	4.7
7	2	5320.	476.	592.	3680.	476.	592.	3680.	4100.	0.	0.	0.	.90	58.	31.8	D	14.5	3.1
8	2	880.	0.	0.	3088.	0.	0.	3088.	4400.	0.	0.	0.	.70	62.	24.9	C	14.9	4.8
9	2	1125.	188.	0.	3276.	188.	0.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
10	3	6320.	440.	296.	3716.	440.	296.	3716.	5595.	5.	0.	0.	.66	62.	20.0	C	19.9	4.8
11	2	2050.	0.	0.	3420.	0.	0.	3476.	4100.	0.	* 779.	-56.	.85	31.	56.2	F	19.5	4.0
12	3	2560.	924.	0.	4344.	924.	0.	4400.	5508.	92.	** 2560.	-56.	.80	19.	76.1	F	14.1	4.7
13	3	1400.	0.	432.	4344.	0.	432.	4400.	5508.	92.	** 1400.	-56.	.80	19.	76.1	F	30.4	4.7
14	2	1320.	0.	0.	3912.	0.	0.	3968.	4400.	0.	** 1320.	-56.	.90	27.	72.6	F	14.2	3.5
15	3	540.	952.	1384.	4864.	952.	1400.	4920.	4920.	680.	0.	0.	1.00	52.	31.8	E	14.5	2.3
16	2	1230.	0.	0.	3480.	0.	0.	3520.	4400.	0.	0.	0.	.80	61.	28.9	D	20.4	4.2
17	2	890.	708.	0.	4188.	708.	0.	4228.	4397.	3.	0.	0.	.96	54.	38.9	E	22.4	2.4
18	3	4840.	228.	676.	4416.	228.	682.	4456.	5536.	64.	0.	0.	.80	62.	24.0	C	17.2	4.8
19	2	530.	0.	0.	3740.	0.	0.	3774.	3800.	0.	0.	0.	.99	52.	36.2	E	22.9	2.3
20	2	1040.	380.	0.	4120.	380.	0.	4154.	4384.	16.	0.	0.	.95	55.	37.6	E	22.2	2.5
21	3	2810.	652.	820.	4772.	652.	826.	4806.	5418.	182.	0.	0.	.89	58.	27.4	D	26.2	3.2
22	2	1850.	0.	0.	3952.	0.	0.	3980.	4400.	0.	0.	0.	.90	58.	34.5	D	18.6	3.0
23	3	2390.	324.	152.	4276.	324.	153.	4304.	5523.	77.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1576.	4124.	0.	1500.	4151.	5572.	28.	0.	0.	.74	62.	22.3	C	17.2	4.8
25	2	1400.	0.	2548.	2548.	0.	2565.	2565.	3600.	0.	0.	0.	.71	62.	20.7	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 48.	32.2		17.2	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	195. VEH-HRS	243. PASS-HRS	1123. VEH-HRS	1396. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	16. VEH-HRS	20. PASS-HRS	46. VEH-HRS	57. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	211. VEH-HRS	263. PASS-HRS	1169. VEH-HRS	1454. PASS-HRS
TOTAL TRAV DISTANCE =	9386. VEH-MI.	11677. PASS-MI.	57334. VEH-MI.	71323. PASS-MI.
AVERAGE SYSTEM SPEED =	44. MPH.		51. MPH.	
AVERAGE DENSITY =	32. VPMPL		31. VPMPL	
TOTAL FUEL =	551. GALLONS		3312. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		233. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	74.	15.90	6.02	0.09	0.57	0.10	0.76

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3012.	176.	3012.	3012.	176.	3012.	4100.	0.	0.	0.	.73	62.	24.3	C	13.6	4.8
2	2	1970.	0.	0.	2836.	0.	0.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
3	2	1830.	244.	140.	3080.	244.	140.	3080.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
4	2	2010.	0.	0.	2940.	0.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	13.6	4.8
5	2	2445.	712.	368.	3652.	712.	368.	3652.	3996.	104.	0.	0.	.91	57.	31.9	D	14.7	2.9
6	2	1890.	0.	0.	3284.	0.	0.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	13.6	4.6
7	2	5320.	540.	520.	3824.	540.	520.	3824.	4100.	0.	0.	0.	.93	56.	34.0	D	14.9	2.7
8	2	880.	0.	0.	3304.	0.	0.	3304.	4400.	0.	0.	0.	.75	62.	26.8	D	15.0	4.6
9	2	1125.	168.	0.	3472.	168.	0.	3472.	4400.	0.	0.	0.	.79	61.	28.4	D	20.3	4.3
10	3	6320.	552.	284.	4024.	552.	284.	4024.	5595.	5.	0.	0.	.72	62.	21.6	C	19.9	4.8
11	2	2050.	0.	0.	3740.	0.	0.	3740.	4100.	0.	0.	0.	.91	51.	36.8	E	21.5	3.0
12	3	2560.	852.	0.	4592.	852.	0.	4644.	5516.	84.	* 2411.	-52.	.84	22.	69.3	F	14.8	4.2
13	3	1400.	0.	460.	4592.	0.	460.	4644.	5516.	84.	** 1400.	-52.	.84	22.	69.7	F	33.4	4.2
14	2	1320.	0.	0.	4132.	0.	0.	4184.	4400.	0.	** 1320.	-52.	.95	33.	63.8	F	14.9	3.0
15	3	540.	812.	1280.	4944.	812.	1293.	4996.	4996.	604.	0.	0.	1.00	52.	32.3	E	14.5	2.3
16	2	1230.	0.	0.	3664.	0.	0.	3703.	4400.	0.	0.	0.	.84	60.	30.8	D	20.9	3.6
17	2	890.	680.	0.	4344.	680.	0.	4383.	4395.	5.	0.	0.	.99	52.	42.3	E	23.0	2.3
18	3	4840.	252.	544.	4596.	252.	549.	4349.	5546.	54.	* 2367.	286.	.78	39.	36.8	F	16.8	4.0
19	2	530.	0.	0.	4052.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	380.	0.	4432.	380.	0.	4180.	4384.	16.	0.	0.	.95	55.	38.1	E	22.3	2.4
21	3	2810.	672.	884.	5104.	672.	840.	4852.	5359.	241.	0.	0.	.91	58.	28.1	D	26.7	3.0
22	2	1850.	0.	0.	4220.	0.	0.	4012.	4400.	0.	0.	0.	.91	57.	35.0	E	18.7	2.9
23	3	2390.	332.	156.	4552.	332.	149.	4344.	5520.	80.	0.	0.	.79	62.	23.4	C	24.1	4.8
24	3	960.	0.	1540.	4396.	0.	1500.	4195.	5571.	29.	0.	0.	.75	62.	22.6	C	17.2	4.8
25	2	1400.	0.	2856.	2856.	0.	2725.	2725.	3600.	0.	0.	0.	.76	62.	22.0	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 48.	32.8		17.5	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	202. VEH-HRS	252. PASS-HRS	1325. VEH-HRS	1648. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	18. VEH-HRS	22. PASS-HRS	64. VEH-HRS	79. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	220. VEH-HRS	273. PASS-HRS	1389. VEH-HRS	1727. PASS-HRS
TOTAL TRAV DISTANCE =	9734. VEH-MI.	12109. PASS-MI.	67067. VEH-MI.	83432. PASS-MI.
AVERAGE SYSTEM SPEED =	44. MPH.		51. MPH.	
AVERAGE DENSITY =	33. VPMPL		31. VPMPL	
TOTAL FUEL =	564. GALLONS		3876. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		271. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	67.	17.65	6.68	0.10	0.63	0.11	0.84

QUEUE CLEAR SECTION 18 T2 =0.232

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2980.	124.	2980.	2980.	124.	2980.	4100.	0.	0.	0.	.73	62.	24.0	C	13.6	4.8
2	2	1970.	0.	0.	2856.	0.	0.	2856.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
3	2	1830.	312.	156.	3168.	312.	156.	3168.	4100.	0.	0.	0.	.77	61.	25.8	C	13.7	4.5
4	2	2010.	0.	0.	3012.	0.	0.	3012.	4400.	0.	0.	0.	.68	62.	24.3	C	13.6	4.8
5	2	2445.	604.	372.	3616.	604.	372.	3616.	4038.	62.	0.	0.	.90	58.	31.2	D	14.5	3.1
6	2	1890.	0.	0.	3244.	0.	0.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	13.6	4.7
7	2	5320.	548.	616.	3792.	548.	616.	3792.	4100.	0.	0.	0.	.92	57.	33.5	D	14.8	2.8
8	2	880.	0.	0.	3176.	0.	0.	3176.	4400.	0.	0.	0.	.72	62.	25.7	C	14.9	4.7
9	2	1125.	168.	0.	3344.	168.	0.	3344.	4400.	0.	0.	0.	.76	62.	27.1	D	20.1	4.5
10	3	6320.	472.	328.	3816.	472.	328.	3816.	5595.	5.	0.	0.	.68	62.	20.5	C	19.9	4.8
11	2	2050.	0.	0.	3488.	0.	0.	3488.	4100.	0.	0.	0.	.85	60.	29.2	D	21.0	3.6
12	3	2560.	776.	0.	4264.	776.	0.	4264.	5508.	92.	0.	0.	.77	42.	34.1	D	16.5	4.6
13	3	1400.	0.	504.	4264.	0.	504.	4264.	5508.	92.	0.	0.	.77	27.	52.3	F	33.6	4.3
14	2	1320.	0.	0.	3760.	0.	0.	4192.	4400.	0. *	465.	-432.	.95	33.	62.7	F	14.9	3.0
15	3	540.	836.	1456.	4596.	836.	1593.	5028.	5028.	572.	0.	0.	1.00	52.	32.5	E	14.5	2.3
16	2	1230.	0.	0.	3140.	0.	0.	3435.	4400.	0.	0.	0.	.78	61.	28.0	D	20.3	4.4
17	2	890.	512.	0.	3652.	512.	0.	3947.	4400.	0.	0.	0.	.90	58.	34.0	D	21.5	3.1
18	3	4840.	204.	728.	3856.	204.	784.	4463.	5555.	45.	0.	-312.	.80	41.	36.5	E	16.3	4.8
19	2	530.	0.	0.	3128.	0.	0.	3679.	3800.	0.	0.	0.	.97	54.	34.1	D	22.5	2.4
20	2	1040.	384.	0.	3512.	384.	0.	4063.	4387.	13.	0.	0.	.93	57.	36.0	E	21.9	2.8
21	3	2810.	772.	736.	4284.	772.	830.	4835.	5404.	196.	0.	0.	.89	58.	27.8	D	26.4	3.1
22	2	1850.	0.	0.	3548.	0.	0.	4005.	4400.	0.	0.	0.	.91	57.	34.9	D	18.7	3.0
23	3	2390.	308.	244.	3856.	308.	273.	4313.	5538.	62.	0.	0.	.78	62.	23.2	C	24.1	4.8
24	3	960.	0.	1560.	3612.	0.	1500.	4040.	5584.	16.	0.	0.	.72	62.	21.7	C	17.2	4.8
25	2	1400.	0.	2052.	2052.	0.	2295.	2295.	3600.	0.	0.	0.	.64	62.	18.5	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 53.	29.7		17.4	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	179. VEH-HRS	222. PASS-HRS	1504. VEH-HRS	1870. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	24. VEH-HRS	30. PASS-HRS	88. VEH-HRS	110. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	203. VEH-HRS	253. PASS-HRS	1592. VEH-HRS	1980. PASS-HRS
TOTAL TRAV DISTANCE =	9431. VEH-MI.	11732. PASS-MI.	76499. VEH-MI.	95164. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		51. MPH.	
AVERAGE DENSITY =	30. VPMPL		31. VPMPL	
TOTAL FUEL =	550. GALLONS		4426. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		310. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	128.	24.34	9.22	0.14	0.87	0.15	1.16

QUEUE CLEAR SECTION 14 FT= 215

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3208.	152.	3208.	3208.	152.	3208.	4100.	0.	0.	0.	.78	61.	26.2	D	13.8	4.4
2	2	1970.	0.	0.	3056.	0.	0.	3056.	4100.	0.	0.	0.	.75	62.	24.6	C	13.6	4.8
3	2	1830.	280.	144.	3336.	280.	144.	3336.	4100.	0.	0.	0.	.81	61.	27.5	D	13.9	4.0
4	2	2010.	0.	0.	3192.	0.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	13.6	4.7
5	2	2445.	432.	536.	3624.	432.	536.	3624.	4045.	55.	0.	0.	.90	58.	31.2	D	14.5	3.1
6	2	1890.	0.	0.	3088.	0.	0.	3088.	4400.	0.	0.	0.	.70	62.	24.9	C	13.6	4.8
7	2	5320.	444.	492.	3532.	444.	492.	3532.	4100.	0.	0.	0.	.86	59.	29.7	D	14.2	3.5
8	2	880.	0.	0.	3040.	0.	0.	3040.	4400.	0.	0.	0.	.69	62.	24.5	C	14.9	4.8
9	2	1125.	156.	0.	3196.	156.	0.	3196.	4400.	0.	0.	0.	.73	62.	25.8	C	20.0	4.7
10	3	6320.	392.	372.	3588.	392.	372.	3588.	5597.	3.	0.	0.	.64	62.	19.3	C	19.9	4.8
11	2	2050.	0.	0.	3216.	0.	0.	3216.	4100.	0.	0.	0.	.78	61.	26.2	D	20.3	4.4
12	3	2560.	936.	0.	4152.	936.	0.	4152.	5505.	95.	0.	0.	.75	62.	22.3	C	17.2	4.8
13	3	1400.	0.	448.	4152.	0.	448.	4152.	5505.	95.	0.	0.	.75	62.	22.3	C	32.3	4.8
14	2	1320.	0.	0.	3704.	0.	0.	3724.	4400.	0.	0.	-20.	.85	42.	44.4	E	14.9	3.8
15	3	540.	608.	1216.	4312.	608.	1222.	4332.	5164.	436.	0.	0.	.84	62.	23.3	C	12.6	4.8
16	2	1230.	0.	0.	3096.	0.	0.	3110.	4400.	0.	0.	0.	.71	62.	25.1	C	20.0	4.8
17	2	890.	628.	0.	3724.	628.	0.	3738.	4399.	1.	0.	0.	.85	60.	31.3	D	21.0	3.6
18	3	4840.	192.	548.	3916.	192.	550.	3930.	5555.	45.	0.	0.	.71	62.	21.1	C	17.2	4.8
19	2	530.	0.	0.	3368.	0.	0.	3380.	3800.	0.	0.	0.	.89	58.	29.0	D	21.4	3.2
20	2	1040.	436.	0.	3804.	436.	0.	3816.	4382.	18.	0.	0.	.87	59.	32.3	D	21.2	3.4
21	3	2810.	596.	852.	4400.	596.	854.	4412.	5449.	151.	0.	0.	.81	62.	23.7	C	24.1	4.8
22	2	1850.	0.	0.	3548.	0.	0.	3558.	4400.	0.	0.	0.	.81	61.	29.2	D	17.6	4.1
23	3	2390.	340.	172.	3888.	340.	172.	3898.	5527.	73.	0.	0.	.71	62.	21.0	C	24.1	4.8
24	3	960.	0.	1464.	3716.	0.	1500.	3725.	5578.	22.	0.	0.	.67	62.	20.0	C	17.2	4.8
25	2	1400.	0.	2252.	2252.	0.	2258.	2258.	3600.	0.	0.	0.	.63	62.	18.2	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.90 LOWEST LOS = E AVG = 60. 25.1 17.2 4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	148. VEH-HRS	184. PASS-HRS	1652. VEH-HRS	2055. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	31. VEH-HRS	39. PASS-HRS	119. VEH-HRS	148. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	179. VEH-HRS	223. PASS-HRS	1771. VEH-HRS	2203. PASS-HRS
TOTAL TRAV DISTANCE =	8954. VEH-MI.	11139. PASS-MI.	85453. VEH-MI.	106304. PASS-MI.
AVERAGE SYSTEM SPEED =	50. MPH.		52. MPH.	
AVERAGE DENSITY =	25. VPMPL		30. VPMPL	
TOTAL FUEL =	533. GALLONS		4959. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		351. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	120.	30.97	11.73	0.18	1.11	0.19	1.48

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3052.	112.	3052.	3052.	112.	3052.	4100.	0.	0.	0.	.74	62.	24.6	C	13.6	4.8
2	2	1970.	0.	0.	2940.	0.	0.	2940.	4100.	0.	0.	0.	.72	62.	23.7	C	13.6	4.8
3	2	1830.	264.	156.	3204.	264.	156.	3204.	4100.	0.	0.	0.	.78	61.	26.1	D	13.8	4.4
4	2	2010.	0.	0.	3048.	0.	0.	3048.	4400.	0.	0.	0.	.69	62.	24.6	C	13.6	4.8
5	2	2445.	640.	532.	3688.	640.	532.	3688.	3902.	198.	0.	0.	.95	55.	33.3	D	15.1	2.5
6	2	1890.	0.	0.	3156.	0.	0.	3156.	4400.	0.	0.	0.	.72	62.	25.5	C	13.6	4.7
7	2	5320.	440.	564.	3596.	440.	564.	3596.	4100.	0.	0.	0.	.88	59.	30.6	D	14.4	3.3
8	2	880.	0.	0.	3032.	0.	0.	3032.	4400.	0.	0.	0.	.69	62.	24.5	C	14.9	4.8
9	2	1125.	180.	0.	3212.	180.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	20.0	4.7
10	3	6320.	472.	428.	3684.	472.	428.	3684.	5596.	4.	0.	0.	.66	62.	19.8	C	19.9	4.8
11	2	2050.	0.	0.	3256.	0.	0.	3256.	4100.	0.	0.	0.	.79	61.	26.6	D	20.4	4.3
12	3	2560.	716.	0.	3972.	716.	0.	3972.	5516.	84.	0.	0.	.72	62.	21.4	C	17.2	4.8
13	3	1400.	0.	496.	3972.	0.	496.	3972.	5516.	84.	0.	0.	.72	62.	21.4	C	32.3	4.8
14	2	1320.	0.	0.	3476.	0.	0.	3476.	4400.	0.	0.	0.	.79	61.	28.4	D	15.2	4.3
15	3	540.	652.	1420.	4128.	652.	1420.	4128.	5172.	428.	0.	0.	.80	62.	22.2	C	12.6	4.8
16	2	1230.	0.	0.	2708.	0.	0.	2708.	4400.	0.	0.	0.	.62	62.	21.8	C	19.9	4.8
17	2	890.	568.	0.	3276.	568.	0.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
18	3	4840.	248.	612.	3524.	248.	612.	3524.	5570.	30.	0.	0.	.63	62.	18.9	C	17.2	4.8
19	2	530.	0.	0.	2912.	0.	0.	2912.	3800.	0.	0.	0.	.77	62.	23.5	C	19.9	4.8
20	2	1040.	368.	0.	3280.	368.	0.	3280.	4389.	11.	0.	0.	.75	62.	26.6	D	20.1	4.6
21	3	2810.	652.	816.	3932.	652.	816.	3932.	5452.	148.	0.	0.	.72	62.	21.1	C	24.1	4.8
22	2	1850.	0.	0.	3116.	0.	0.	3116.	4400.	0.	0.	0.	.71	62.	25.2	C	17.2	4.8
23	3	2390.	252.	156.	3368.	252.	156.	3368.	5568.	32.	0.	0.	.60	62.	18.1	C	24.1	4.8
24	3	960.	0.	1516.	3212.	0.	1500.	3212.	5595.	5.	0.	0.	.57	62.	17.3	B	17.2	4.8
25	2	1400.	0.	1696.	1696.	0.	1696.	1696.	3600.	0.	0.	0.	.47	62.	13.7	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.95		LOWEST LOS = D	AVG = 61.	23.6		17.1	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	173. PASS-HRS	1791. VEH-HRS	2227. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	30. VEH-HRS	38. PASS-HRS	150. VEH-HRS	186. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	169. VEH-HRS	211. PASS-HRS	1940. VEH-HRS	2414. PASS-HRS
TOTAL TRAV DISTANCE =	8505. VEH-MI.	10581. PASS-MI.	93958. VEH-MI.	116884. PASS-MI.
AVERAGE SYSTEM SPEED =	50. MPH.		52. MPH.	
AVERAGE DENSITY =	24. VPMPL		30. VPMPL	
TOTAL FUEL =	510. GALLONS		5469. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		391. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	124.	30.46	11.54	0.18	1.09	0.19	1.46

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3288.	128.	3288.	3288.	128.	3288.	4100.	0.	0.	0.	.80	61.	27.0	D	13.8	4.2
2	2	1970.	0.	0.	3160.	0.	0.	3160.	4100.	0.	0.	0.	.77	61.	25.7	C	13.7	4.5
3	2	1830.	268.	144.	3428.	268.	144.	3428.	4100.	0.	0.	0.	.84	60.	28.5	D	14.1	3.7
4	2	2010.	0.	0.	3284.	0.	0.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	13.6	4.6
5	2	2445.	608.	496.	3892.	608.	496.	3892.	3932.	168.	0.	0.	.99	52.	37.2	E	15.6	2.3
6	2	1890.	0.	0.	3396.	0.	0.	3396.	4400.	0.	0.	0.	.77	61.	27.6	D	13.7	4.5
7	2	5320.	368.	540.	3764.	368.	540.	3764.	4100.	0.	0.	0.	.92	57.	33.0	D	14.7	2.9
8	2	880.	0.	0.	3224.	0.	0.	3224.	4400.	0.	0.	0.	.73	62.	26.1	D	15.0	4.7
9	2	1125.	128.	0.	3352.	128.	0.	3352.	4400.	0.	0.	0.	.76	62.	27.2	D	20.1	4.5
10	3	6320.	440.	388.	3792.	440.	388.	3792.	5596.	4.	0.	0.	.68	62.	20.4	C	19.9	4.8
11	2	2050.	0.	0.	3404.	0.	0.	3404.	4100.	0.	0.	0.	.83	60.	28.2	D	20.8	3.8
12	3	2560.	756.	0.	4160.	756.	0.	4160.	5520.	80.	0.	0.	.75	62.	22.4	C	17.2	4.8
13	3	1400.	0.	448.	4160.	0.	448.	4160.	5520.	80.	0.	0.	.75	62.	22.4	C	32.3	4.8
14	2	1320.	0.	0.	3712.	0.	0.	3712.	4400.	0.	0.	0.	.84	60.	31.0	D	15.6	3.6
15	3	540.	548.	1264.	4260.	548.	1264.	4260.	5216.	384.	0.	0.	.82	62.	22.9	C	12.6	4.8
16	2	1230.	0.	0.	2996.	0.	0.	2996.	4400.	0.	0.	0.	.68	62.	24.2	C	19.9	4.8
17	2	890.	604.	0.	3600.	604.	0.	3600.	4400.	0.	0.	0.	.82	61.	29.7	D	20.6	4.0
18	3	4840.	244.	612.	3844.	244.	612.	3844.	5559.	41.	0.	0.	.69	62.	20.7	C	17.2	4.8
19	2	530.	0.	0.	3232.	0.	0.	3232.	3800.	0.	0.	0.	.85	60.	27.1	D	21.0	3.6
20	2	1040.	440.	0.	3672.	440.	0.	3672.	4382.	18.	0.	0.	.84	60.	30.5	D	20.9	3.7
21	3	2810.	624.	944.	4296.	624.	944.	4296.	5370.	230.	0.	0.	.80	62.	23.1	C	24.1	4.8
22	2	1850.	0.	0.	3352.	0.	0.	3352.	4400.	0.	0.	0.	.76	62.	27.2	D	17.3	4.5
23	3	2390.	308.	180.	3660.	308.	180.	3660.	5543.	57.	0.	0.	.66	62.	19.7	C	24.1	4.8
24	3	960.	0.	1564.	3480.	0.	1500.	3480.	5587.	13.	0.	0.	.62	62.	18.7	C	17.2	4.8
25	2	1400.	0.	1916.	1916.	0.	1916.	1916.	3600.	0.	0.	0.	.53	62.	15.5	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.99		LOWEST LOS = E	AVG = 61.	25.5		17.3	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	150. VEH-HRS	186. PASS-HRS	1940. VEH-HRS	2414. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	33. VEH-HRS	41. PASS-HRS	183. VEH-HRS	227. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	183. VEH-HRS	227. PASS-HRS	2123. VEH-HRS	2641. PASS-HRS
TOTAL TRAV DISTANCE =	9069. VEH-MI.	11282. PASS-MI.	103027. VEH-MI.	128166. PASS-MI.
AVERAGE SYSTEM SPEED =	50. MPH.		53. MPH.	
AVERAGE DENSITY =	26. VPMPL		29. VPMPL	
TOTAL FUEL =	537. GALLONS		6006. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		431. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	140.	32.96	12.48	0.19	1.18	0.21	1.58

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3060.	120.	3060.	3060.	120.	3060.	4100.	0.	0.	0.	.75	62.	24.7	C	13.6	4.8
2	2	1970.	0.	0.	2940.	0.	0.	2940.	4100.	0.	0.	0.	.72	62.	23.7	C	13.6	4.8
3	2	1830.	264.	196.	3204.	264.	196.	3204.	4100.	0.	0.	0.	.78	61.	26.1	D	13.8	4.4
4	2	2010.	0.	0.	3008.	0.	0.	3008.	4400.	0.	0.	0.	.68	62.	24.3	C	13.6	4.8
5	2	2445.	556.	536.	3564.	556.	536.	3564.	3942.	158.	0.	0.	.90	58.	30.9	D	14.6	3.0
6	2	1890.	0.	0.	3028.	0.	0.	3028.	4400.	0.	0.	0.	.69	62.	24.4	C	13.6	4.8
7	2	5320.	452.	612.	3480.	452.	612.	3480.	4100.	0.	0.	0.	.85	60.	29.1	D	14.2	3.6
8	2	880.	0.	0.	2868.	0.	0.	2868.	4400.	0.	0.	0.	.65	62.	23.1	C	14.9	4.8
9	2	1125.	148.	0.	3016.	148.	0.	3016.	4400.	0.	0.	0.	.69	62.	24.3	C	19.9	4.8
10	3	6320.	508.	340.	3524.	508.	340.	3524.	5597.	3.	0.	0.	.63	62.	18.9	C	19.9	4.8
11	2	2050.	0.	0.	3184.	0.	0.	3184.	4100.	0.	0.	0.	.78	61.	25.9	C	20.2	4.4
12	3	2560.	848.	0.	4032.	848.	0.	4032.	5494.	106.	0.	0.	.73	62.	21.7	C	17.2	4.8
13	3	1400.	0.	532.	4032.	0.	532.	4032.	5494.	106.	0.	0.	.73	62.	21.7	C	32.3	4.8
14	2	1320.	0.	0.	3500.	0.	0.	3500.	4400.	0.	0.	0.	.80	61.	28.6	D	15.2	4.3
15	3	540.	576.	1292.	4076.	576.	1292.	4076.	5208.	392.	0.	0.	.78	62.	21.9	C	12.6	4.8
16	2	1230.	0.	0.	2784.	0.	0.	2784.	4400.	0.	0.	0.	.63	62.	22.5	C	19.9	4.8
17	2	890.	604.	0.	3388.	604.	0.	3388.	4400.	0.	0.	0.	.77	61.	27.6	D	20.2	4.5
18	3	4840.	132.	504.	3520.	132.	504.	3520.	5567.	33.	0.	0.	.63	62.	18.9	C	17.2	4.8
19	2	530.	0.	0.	3016.	0.	0.	3016.	3800.	0.	0.	0.	.79	62.	24.3	C	19.9	4.8
20	2	1040.	424.	0.	3440.	424.	0.	3440.	4384.	16.	0.	0.	.78	61.	28.1	D	20.3	4.4
21	3	2810.	728.	940.	4168.	728.	940.	4168.	5318.	282.	0.	0.	.78	62.	22.4	C	24.1	4.8
22	2	1850.	0.	0.	3228.	0.	0.	3228.	4400.	0.	0.	0.	.73	62.	26.1	D	17.2	4.7
23	3	2390.	340.	176.	3568.	340.	176.	3568.	5552.	48.	0.	0.	.64	62.	19.2	C	24.1	4.8
24	3	960.	0.	1748.	3392.	0.	1500.	3392.	5595.	5.	0.	0.	.61	62.	18.2	C	17.2	4.8
25	2	1400.	0.	1644.	1644.	0.	1644.	1644.	3600.	0.	0.	0.	.46	62.	13.3	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.90 LOWEST LOS = D AVG = 61. 23.4 17.1 4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	138. VEH-HRS	172. PASS-HRS	2078. VEH-HRS	2586. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	43. VEH-HRS	53. PASS-HRS	225. VEH-HRS	280. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	181. VEH-HRS	225. PASS-HRS	2304. VEH-HRS	2866. PASS-HRS
TOTAL TRAV DISTANCE =	8474. VEH-MI.	10542. PASS-MI.	111502. VEH-MI.	138708. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		54. MPH.	
AVERAGE DENSITY =	23. VPMPL		29. VPMPL	
TOTAL FUEL =	513. GALLONS		6519. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		471. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	202.	42.71	16.18	0.25	1.53	0.27	2.04

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3240.	188.	3240.	3240.	188.	3240.	4100.	0.	0.	0.	.79	61.	26.5	D	13.8	4.3
2	2	1970.	0.	0.	3052.	0.	0.	3052.	4100.	0.	0.	0.	.74	62.	24.6	C	13.6	4.8
3	2	1830.	320.	160.	3372.	320.	160.	3372.	4100.	0.	0.	0.	.82	61.	27.9	D	14.0	3.9
4	2	2010.	0.	0.	3212.	0.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	13.6	4.7
5	2	2445.	456.	580.	3668.	456.	580.	3668.	3985.	115.	0.	0.	.92	57.	32.3	D	14.8	2.8
6	2	1890.	0.	0.	3088.	0.	0.	3088.	4400.	0.	0.	0.	.70	62.	24.9	C	13.6	4.8
7	2	5320.	620.	580.	3708.	620.	580.	3708.	4100.	0.	0.	0.	.90	58.	32.2	D	14.6	3.0
8	2	880.	0.	0.	3128.	0.	0.	3128.	4400.	0.	0.	0.	.71	62.	25.3	C	14.9	4.7
9	2	1125.	240.	0.	3368.	240.	0.	3368.	4400.	0.	0.	0.	.77	62.	27.4	D	20.2	4.5
10	3	6320.	560.	480.	3928.	560.	480.	3928.	5593.	7.	0.	0.	.70	62.	21.1	C	19.9	4.8
11	2	2050.	0.	0.	3448.	0.	0.	3448.	4100.	0.	0.	0.	.84	60.	28.7	D	20.9	3.6
12	3	2560.	828.	0.	4276.	828.	0.	4276.	5508.	92.	0.	0.	.78	62.	23.0	C	17.2	4.8
13	3	1400.	0.	468.	4276.	0.	468.	4276.	5508.	92.	0.	0.	.78	62.	23.0	C	32.3	4.8
14	2	1320.	0.	0.	3808.	0.	0.	3808.	4400.	0.	0.	0.	.87	59.	32.1	D	15.7	3.4
15	3	540.	804.	1348.	4612.	804.	1348.	4612.	5032.	568.	0.	0.	.92	62.	24.8	C	12.6	4.8
16	2	1230.	0.	0.	3264.	0.	0.	3264.	4400.	0.	0.	0.	.74	62.	26.4	D	20.1	4.6
17	2	890.	724.	0.	3988.	724.	0.	3988.	4398.	2.	0.	0.	.91	58.	34.7	D	21.6	3.0
18	3	4840.	188.	528.	4176.	188.	528.	4176.	5549.	51.	0.	0.	.75	62.	22.5	C	17.2	4.8
19	2	530.	0.	0.	3648.	0.	0.	3648.	3800.	0.	0.	0.	.96	54.	33.5	D	22.4	2.4
20	2	1040.	500.	0.	4148.	500.	0.	4148.	4377.	23.	0.	0.	.95	55.	37.5	E	22.2	2.5
21	3	2810.	792.	996.	4940.	792.	996.	4940.	5183.	417.	0.	0.	.95	55.	30.0	D	28.4	2.4
22	2	1850.	0.	0.	3944.	0.	0.	3944.	4400.	0.	0.	0.	.90	58.	34.0	D	18.5	3.1
23	3	2390.	400.	140.	4344.	400.	140.	4344.	5497.	103.	0.	0.	.79	62.	23.4	C	24.1	4.8
24	3	960.	0.	1720.	4204.	0.	1500.	4204.	5566.	34.	0.	0.	.76	62.	22.6	C	17.2	4.8
25	2	1400.	0.	2484.	2484.	0.	2484.	2484.	3600.	0.	0.	0.	.69	62.	20.0	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.96		LOWEST LOS = E	AVG = 60.	26.7		17.6	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	158. VEH-HRS	196. PASS-HRS	2236. VEH-HRS	2782. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	57. VEH-HRS	71. PASS-HRS	283. VEH-HRS	352. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	215. VEH-HRS	268. PASS-HRS	2519. VEH-HRS	3133. PASS-HRS
TOTAL TRAV DISTANCE =	9478. VEH-MI.	11790. PASS-MI.	120979. VEH-MI.	150498. PASS-MI.
AVERAGE SYSTEM SPEED =	44. MPH.		54. MPH.	
AVERAGE DENSITY =	27. VPMPL		29. VPMPL	
TOTAL FUEL =	561. GALLONS		7080. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		512. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	257.	57.33	21.71	0.33	2.05	0.36	2.74

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3444.	168.	3444.	3444.	168.	3444.	4100.	0.	0.	0.	.84	60.	28.7	D	14.1	3.6
2	2	1970.	0.	0.	3276.	0.	0.	3276.	4100.	0.	0.	0.	.80	61.	26.8	D	13.8	4.2
3	2	1830.	364.	240.	3640.	364.	240.	3640.	4100.	0.	0.	0.	.89	58.	31.2	D	14.4	3.2
4	2	2010.	0.	0.	3400.	0.	0.	3320.	4400.	0. *	741.	80.	.75	41.	40.0	F	13.2	4.6
5	2	2445.	536.	680.	3936.	536.	666.	3856.	3856.	244.	0.	0.	1.00	52.	37.4	E	15.7	2.3
6	2	1890.	0.	0.	3256.	0.	0.	3190.	4400.	0.	0.	0.	.72	62.	25.8	C	13.6	4.7
7	2	5320.	560.	860.	3816.	560.	845.	3750.	4100.	0.	0.	0.	.91	57.	32.8	D	14.7	2.9
8	2	880.	0.	0.	2956.	0.	0.	2905.	4400.	0.	0.	0.	.66	62.	23.4	C	14.9	4.8
9	2	1125.	132.	0.	3088.	132.	0.	3037.	4400.	0.	0.	0.	.69	62.	24.5	C	19.9	4.8
10	3	6320.	456.	500.	3544.	456.	493.	3493.	5597.	3.	0.	0.	.62	62.	18.8	C	19.9	4.8
11	2	2050.	0.	0.	3044.	0.	0.	3000.	4100.	0.	0.	0.	.73	62.	24.2	C	19.9	4.8
12	3	2560.	772.	0.	3816.	772.	0.	3772.	5481.	119.	0.	0.	.69	62.	20.3	C	17.2	4.8
13	3	1400.	0.	656.	3816.	0.	648.	3772.	5481.	119.	0.	0.	.69	62.	20.3	C	32.3	4.8
14	2	1320.	0.	0.	3160.	0.	0.	3123.	4400.	0.	0.	0.	.71	62.	25.2	C	14.9	4.7
15	3	540.	828.	1376.	3988.	828.	1363.	3951.	5056.	544.	0.	0.	.78	62.	21.2	C	12.6	4.8
16	2	1230.	0.	0.	2612.	0.	0.	2588.	4400.	0.	0.	0.	.59	62.	20.9	C	19.9	4.8
17	2	890.	640.	0.	3252.	640.	0.	3228.	4400.	0.	0.	0.	.73	62.	26.1	D	20.0	4.7
18	3	4840.	184.	504.	3436.	184.	500.	3412.	5573.	27.	0.	0.	.61	62.	18.3	C	17.2	4.8
19	2	530.	0.	0.	2932.	0.	0.	2912.	3800.	0.	0.	0.	.77	62.	23.5	C	19.9	4.8
20	2	1040.	424.	0.	3356.	424.	0.	3336.	4385.	15.	0.	0.	.76	62.	27.1	D	20.1	4.5
21	3	2810.	700.	1016.	4056.	700.	1011.	4036.	5305.	295.	0.	0.	.76	62.	21.7	C	24.1	4.8
22	2	1850.	0.	0.	3040.	0.	0.	3025.	4400.	0.	0.	0.	.69	62.	24.4	C	17.2	4.8
23	3	2390.	364.	192.	3404.	364.	191.	3389.	5567.	33.	0.	0.	.61	62.	18.2	C	24.1	4.8
24	3	960.	0.	1716.	3212.	0.	1500.	3198.	5600.	0.	0.	0.	.57	62.	17.2	B	17.2	4.8
25	2	1400.	0.	1496.	1496.	0.	1489.	1489.	3600.	0.	0.	0.	.41	62.	12.0	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 59.	24.6		17.1	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	144. VEH-HRS	179. PASS-HRS	2380. VEH-HRS	2961. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	71. VEH-HRS	88. PASS-HRS	353. VEH-HRS	440. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	214. VEH-HRS	267. PASS-HRS	2733. VEH-HRS	3400. PASS-HRS
TOTAL TRAV DISTANCE =	8532. VEH-MI.	10614. PASS-MI.	129511. VEH-MI.	161112. PASS-MI.
AVERAGE SYSTEM SPEED =	40. MPH.		54. MPH.	
AVERAGE DENSITY =	25. VPMPL		28. VPMPL	
TOTAL FUEL =	526. GALLONS		7605. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		552. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	309.	70.72	26.78	0.41	2.53	0.44	3.38

QUEUE CLEAR SECTION 4 T2 =0.235

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2976.	156.	2976.	2976.	156.	2976.	4100.	0.	0.	0.	.73	62.	24.0	C	13.6	4.8
2	2	1970.	0.	0.	2820.	0.	0.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
3	2	1830.	324.	232.	3144.	324.	232.	3144.	4100.	0.	0.	0.	.77	62.	25.6	C	13.7	4.5
4	2	2010.	0.	0.	2912.	0.	0.	3017.	4400.	0.	0.	-105.	.69	38.	39.9	E	13.0	5.0
5	2	2445.	728.	476.	3640.	728.	490.	3745.	3910.	190.	0.	0.	.96	55.	34.3	D	15.2	2.4
6	2	1890.	0.	0.	3164.	0.	0.	3255.	4400.	0.	0.	0.	.74	62.	26.3	D	13.6	4.7
7	2	5320.	540.	816.	3704.	540.	836.	3795.	4100.	0.	0.	0.	.93	57.	33.6	D	14.8	2.8
8	2	880.	0.	0.	2888.	0.	0.	2959.	4400.	0.	0.	0.	.67	62.	23.9	C	14.9	4.8
9	2	1125.	156.	0.	3044.	156.	0.	3115.	4400.	0.	0.	0.	.71	62.	25.1	C	20.0	4.8
10	3	6320.	436.	392.	3480.	436.	400.	3551.	5597.	3.	0.	0.	.63	62.	19.1	C	19.9	4.8
11	2	2050.	0.	0.	3088.	0.	0.	3151.	4100.	0.	0.	0.	.77	61.	25.6	C	20.2	4.5
12	3	2560.	748.	0.	3836.	748.	0.	3899.	5524.	76.	0.	0.	.71	62.	21.0	C	17.2	4.8
13	3	1400.	0.	420.	3836.	0.	427.	3899.	5524.	76.	0.	0.	.71	62.	21.0	C	32.3	4.8
14	2	1320.	0.	0.	3416.	0.	0.	3472.	4400.	0.	0.	0.	.79	61.	28.4	D	15.2	4.3
15	3	540.	760.	1408.	4176.	760.	1427.	4232.	5096.	504.	0.	0.	.83	62.	22.8	C	12.6	4.8
16	2	1230.	0.	0.	2768.	0.	0.	2805.	4400.	0.	0.	0.	.64	62.	22.6	C	19.9	4.8
17	2	890.	488.	0.	3256.	488.	0.	3293.	4400.	0.	0.	0.	.75	62.	26.7	D	20.1	4.6
18	3	4840.	192.	440.	3448.	192.	445.	3485.	5576.	24.	0.	0.	.63	62.	18.7	C	17.2	4.8
19	2	530.	0.	0.	3008.	0.	0.	3040.	3800.	0.	0.	0.	.80	62.	24.5	C	19.9	4.8
20	2	1040.	504.	0.	3512.	504.	0.	3544.	4382.	18.	0.	0.	.81	61.	29.1	D	20.5	4.1
21	3	2810.	544.	884.	4056.	544.	891.	4088.	5452.	148.	0.	0.	.75	62.	22.0	C	24.1	4.8
22	2	1850.	0.	0.	3172.	0.	0.	3197.	4400.	0.	0.	0.	.73	62.	25.8	C	17.2	4.7
23	3	2390.	360.	176.	3532.	360.	177.	3557.	5546.	54.	0.	0.	.64	62.	19.1	C	24.1	4.8
24	3	960.	0.	1628.	3356.	0.	1500.	3380.	5593.	7.	0.	0.	.60	62.	18.2	C	17.2	4.8
25	2	1400.	0.	1728.	1728.	0.	1740.	1740.	3600.	0.	0.	0.	.48	62.	14.0	B	19.9	4.8
TOTAL		53000. =	10.0 MILES									MAX(V/C) = 0.96	LOWEST LOS = E	AVG = 60.	24.5		17.1	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	2523. VEH-HRS	3139. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	82. VEH-HRS	101. PASS-HRS	435. VEH-HRS	541. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	225. VEH-HRS	280. PASS-HRS	2958. VEH-HRS	3680. PASS-HRS
TOTAL TRAV DISTANCE =	8536. VEH-MI.	10618. PASS-MI.	138047. VEH-MI.	171730. PASS-MI.
AVERAGE SYSTEM SPEED =	38. MPH.		55. MPH.	
AVERAGE DENSITY =	25. VPMPL		28. VPMPL	
TOTAL FUEL =	529. GALLONS		8134. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		593. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	344.	81.59	30.90	0.47	2.92	0.51	3.90

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2680.	152.	2680.	2680.	152.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
2	2	1970.	0.	0.	2528.	0.	0.	2528.	4100.	0.	0.	0.	.62	62.	20.4	C	13.6	4.8
3	2	1830.	268.	164.	2796.	268.	164.	2796.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
4	2	2010.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
5	2	2445.	672.	492.	3304.	672.	492.	3304.	3943.	157.	0.	0.	.84	60.	27.5	D	14.1	3.7
6	2	1890.	0.	0.	2812.	0.	0.	2812.	4400.	0.	0.	0.	.64	62.	22.7	C	13.6	4.8
7	2	5320.	432.	776.	3244.	432.	776.	3244.	4100.	0.	0.	0.	.79	61.	26.5	D	13.8	4.3
8	2	880.	0.	0.	2468.	0.	0.	2468.	4400.	0.	0.	0.	.56	62.	19.9	C	14.9	4.8
9	2	1125.	124.	0.	2592.	124.	0.	2592.	4400.	0.	0.	0.	.59	62.	20.9	C	19.9	4.8
10	3	6320.	436.	472.	3028.	436.	472.	3028.	5600.	0.	0.	0.	.54	62.	16.3	B	19.9	4.8
11	2	2050.	0.	0.	2556.	0.	0.	2556.	4100.	0.	0.	0.	.62	62.	20.6	C	19.9	4.8
12	3	2560.	776.	0.	3332.	776.	0.	3332.	5523.	77.	0.	0.	.60	62.	17.9	B	17.2	4.8
13	3	1400.	0.	404.	3332.	0.	404.	3332.	5523.	77.	0.	0.	.60	62.	17.9	B	32.3	4.8
14	2	1320.	0.	0.	2928.	0.	0.	2928.	4400.	0.	0.	0.	.67	62.	23.6	C	14.9	4.8
15	3	540.	768.	1372.	3696.	768.	1372.	3696.	5116.	484.	0.	0.	.72	62.	19.9	C	12.6	4.8
16	2	1230.	0.	0.	2324.	0.	0.	2324.	4400.	0.	0.	0.	.53	62.	18.7	C	19.9	4.8
17	2	890.	668.	0.	2992.	668.	0.	2992.	4400.	0.	0.	0.	.68	62.	24.1	C	19.9	4.8
18	3	4840.	136.	608.	3128.	136.	608.	3128.	5589.	11.	0.	0.	.56	62.	16.8	B	17.2	4.8
19	2	530.	0.	0.	2520.	0.	0.	2520.	3800.	0.	0.	0.	.66	62.	20.3	C	19.9	4.8
20	2	1040.	416.	0.	2936.	416.	0.	2936.	4394.	6.	0.	0.	.67	62.	23.7	C	19.9	4.8
21	3	2810.	572.	888.	3508.	572.	888.	3508.	5494.	106.	0.	0.	.64	62.	18.9	C	24.1	4.8
22	2	1850.	0.	0.	2620.	0.	0.	2620.	4400.	0.	0.	0.	.60	62.	21.1	C	17.2	4.8
23	3	2390.	324.	148.	2944.	324.	148.	2944.	5584.	16.	0.	0.	.53	62.	15.8	B	24.1	4.8
24	3	960.	0.	1344.	2796.	0.	1500.	2796.	5600.	0.	0.	0.	.50	62.	15.0	B	17.2	4.8
25	2	1400.	0.	1452.	1452.	0.	1452.	1452.	3600.	0.	0.	0.	.40	62.	11.7	B	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.84	LOWEST LOS = D		AVG = 62.	20.2	16.8	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	119. VEH-HRS	148. PASS-HRS	2642. VEH-HRS	3287. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	81. VEH-HRS	101. PASS-HRS	516. VEH-HRS	642. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	200. VEH-HRS	249. PASS-HRS	3158. VEH-HRS	3928. PASS-HRS
TOTAL TRAV DISTANCE =	7347. VEH-MI.	9140. PASS-MI.	145394. VEH-MI.	180870. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		55. MPH.	
AVERAGE DENSITY =	20. VPMPL		28. VPMPL	
TOTAL FUEL =	467. GALLONS		8601. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		632. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	305.	81.08	30.71	0.47	2.90	0.51	3.88

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2152.	156.	2152.	2152.	156.	2152.	4100.	0.	0.	0.	.52	62.	17.4	B	13.6	4.8
2	2	1970.	0.	0.	1996.	0.	0.	1996.	4100.	0.	0.	0.	.49	62.	16.1	B	13.6	4.8
3	2	1830.	248.	188.	2244.	248.	188.	2244.	4100.	0.	0.	0.	.55	62.	18.1	C	13.6	4.8
4	2	2010.	0.	0.	2056.	0.	0.	2056.	4400.	0.	0.	0.	.47	62.	16.6	B	13.6	4.8
5	2	2445.	520.	416.	2576.	520.	416.	2576.	4083.	17.	0.	0.	.63	62.	20.8	C	13.6	4.8
6	2	1890.	0.	0.	2160.	0.	0.	2160.	4400.	0.	0.	0.	.49	62.	17.4	B	13.6	4.8
7	2	5320.	428.	500.	2588.	428.	500.	2588.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
8	2	880.	0.	0.	2088.	0.	0.	2088.	4400.	0.	0.	0.	.47	62.	16.8	B	14.9	4.8
9	2	1125.	112.	0.	2200.	112.	0.	2200.	4400.	0.	0.	0.	.50	62.	17.7	B	19.9	4.8
10	3	6320.	380.	268.	2580.	380.	268.	2580.	5600.	0.	0.	0.	.46	62.	13.9	B	19.9	4.8
11	2	2050.	0.	0.	2312.	0.	0.	2312.	4100.	0.	0.	0.	.56	62.	18.6	C	19.9	4.8
12	3	2560.	640.	0.	2952.	640.	0.	2952.	5548.	52.	0.	0.	.53	62.	15.9	B	17.2	4.8
13	3	1400.	0.	372.	2952.	0.	372.	2952.	5548.	52.	0.	0.	.53	62.	15.9	B	32.3	4.8
14	2	1320.	0.	0.	2580.	0.	0.	2580.	4400.	0.	0.	0.	.59	62.	20.8	C	14.9	4.8
15	3	540.	696.	1100.	3276.	696.	1100.	3276.	5136.	464.	0.	0.	.64	62.	17.6	B	12.6	4.8
16	2	1230.	0.	0.	2176.	0.	0.	2176.	4400.	0.	0.	0.	.49	62.	17.5	B	19.9	4.8
17	2	890.	644.	0.	2820.	644.	0.	2820.	4400.	0.	0.	0.	.64	62.	22.7	C	19.9	4.8
18	3	4840.	132.	472.	2952.	132.	472.	2952.	5596.	4.	0.	0.	.53	62.	15.9	B	17.2	4.8
19	2	530.	0.	0.	2480.	0.	0.	2480.	3800.	0.	0.	0.	.65	62.	20.0	C	19.9	4.8
20	2	1040.	392.	0.	2872.	392.	0.	2872.	4395.	5.	0.	0.	.65	62.	23.2	C	19.9	4.8
21	3	2810.	436.	812.	3308.	436.	812.	3308.	5565.	35.	0.	0.	.59	62.	17.8	B	24.1	4.8
22	2	1850.	0.	0.	2496.	0.	0.	2496.	4400.	0.	0.	0.	.57	62.	20.1	C	17.2	4.8
23	3	2390.	276.	108.	2772.	276.	108.	2772.	5600.	0.	0.	0.	.49	62.	14.9	B	24.1	4.8
24	3	960.	0.	1416.	2664.	0.	1500.	2664.	5600.	0.	0.	0.	.48	62.	14.3	B	17.2	4.8
25	2	1400.	0.	1248.	1248.	0.	1248.	1248.	3600.	0.	0.	0.	.35	62.	10.1	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.65 LOWEST LOS = C AVG = 62. 17.3 17.0 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	103. VEH-HRS	128. PASS-HRS	2745. VEH-HRS	3414. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	74. VEH-HRS	92. PASS-HRS	590. VEH-HRS	733. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	176. VEH-HRS	219. PASS-HRS	3334. VEH-HRS	4148. PASS-HRS
TOTAL TRAV DISTANCE =	6367. VEH-MI.	7921. PASS-MI.	151762. VEH-MI.	188791. PASS-MI.
AVERAGE SYSTEM SPEED =	36. MPH.		55. MPH.	
AVERAGE DENSITY =	17. VPMPL		27. VPMPL	
TOTAL FUEL =	403. GALLONS		9005. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		666. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	284.	73.58	27.87	0.43	2.63	0.46	3.52

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2260.	108.	2260.	2260.	108.	2260.	4100.	0.	0.	0.	.55	62.	18.2	C	13.6	4.8
2	2	1970.	0.	0.	2152.	0.	0.	2152.	4100.	0.	0.	0.	.52	62.	17.4	B	13.6	4.8
3	2	1830.	240.	128.	2392.	240.	128.	2392.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
4	2	2010.	0.	0.	2264.	0.	0.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	13.6	4.8
5	2	2445.	432.	428.	2696.	432.	428.	2696.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
6	2	1890.	0.	0.	2268.	0.	0.	2268.	4400.	0.	0.	0.	.52	62.	18.3	C	13.6	4.8
7	2	5320.	340.	648.	2608.	340.	648.	2608.	4100.	0.	0.	0.	.64	62.	21.0	C	13.6	4.8
8	2	880.	0.	0.	1960.	0.	0.	1960.	4400.	0.	0.	0.	.45	62.	15.8	B	14.9	4.8
9	2	1125.	144.	0.	2104.	144.	0.	2104.	4400.	0.	0.	0.	.48	62.	17.0	B	19.9	4.8
10	3	6320.	404.	356.	2508.	404.	356.	2508.	5600.	0.	0.	0.	.45	62.	13.5	B	19.9	4.8
11	2	2050.	0.	0.	2152.	0.	0.	2152.	4100.	0.	0.	0.	.52	62.	17.4	B	19.9	4.8
12	3	2560.	568.	0.	2720.	568.	0.	2720.	5564.	36.	0.	0.	.49	62.	14.6	B	17.2	4.8
13	3	1400.	0.	284.	2720.	0.	284.	2720.	5564.	36.	0.	0.	.49	62.	14.6	B	32.3	4.8
14	2	1320.	0.	0.	2436.	0.	0.	2436.	4400.	0.	0.	0.	.55	62.	19.6	C	14.9	4.8
15	3	540.	692.	1084.	3128.	692.	1084.	3128.	5148.	452.	0.	0.	.61	62.	16.8	B	12.6	4.8
16	2	1230.	0.	0.	2044.	0.	0.	2044.	4400.	0.	0.	0.	.46	62.	16.5	B	19.9	4.8
17	2	890.	604.	0.	2648.	604.	0.	2648.	4400.	0.	0.	0.	.60	62.	21.4	C	19.9	4.8
18	3	4840.	204.	452.	2852.	204.	452.	2852.	5600.	0.	0.	0.	.51	62.	15.3	B	17.2	4.8
19	2	530.	0.	0.	2400.	0.	0.	2400.	3800.	0.	0.	0.	.63	62.	19.4	C	19.9	4.8
20	2	1040.	412.	0.	2812.	412.	0.	2812.	4397.	3.	0.	0.	.64	62.	22.7	C	19.9	4.8
21	3	2810.	460.	828.	3272.	460.	828.	3272.	5566.	34.	0.	0.	.59	62.	17.6	B	24.1	4.8
22	2	1850.	0.	0.	2444.	0.	0.	2444.	4400.	0.	0.	0.	.56	62.	19.7	C	17.2	4.8
23	3	2390.	232.	104.	2676.	232.	104.	2676.	5600.	0.	0.	0.	.48	62.	14.4	B	24.1	4.8
24	3	960.	0.	1244.	2572.	0.	1500.	2572.	5600.	0.	0.	0.	.46	62.	13.8	B	17.2	4.8
25	2	1400.	0.	1328.	1328.	0.	1328.	1328.	3600.	0.	0.	0.	.37	62.	10.7	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.66		LOWEST LOS = C	AVG = 62.	17.2		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	102. VEH-HRS	126. PASS-HRS	2846. VEH-HRS	3541. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	63. VEH-HRS	78. PASS-HRS	653. VEH-HRS	812. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	164. VEH-HRS	205. PASS-HRS	3499. VEH-HRS	4352. PASS-HRS
TOTAL TRAV DISTANCE =	6295. VEH-MI.	7831. PASS-MI.	158056. VEH-MI.	196622. PASS-MI.
AVERAGE SYSTEM SPEED =	38. MPH.		56. MPH.	
AVERAGE DENSITY =	17. VPMPL		26. VPMPL	
TOTAL FUEL =	397. GALLONS		9402. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		699. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	220.	62.95	23.84	0.37	2.25	0.39	3.01

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2068.	120.	2068.	2068.	120.	2068.	4100.	0.	0.	0.	.50	62.	16.7	B	13.6	4.8
2	2	1970.	0.	0.	1948.	0.	0.	1948.	4100.	0.	0.	0.	.48	62.	15.7	B	13.6	4.8
3	2	1830.	280.	128.	2228.	280.	128.	2228.	4100.	0.	0.	0.	.54	62.	18.0	B	13.6	4.8
4	2	2010.	0.	0.	2100.	0.	0.	2100.	4400.	0.	0.	0.	.48	62.	16.9	B	13.6	4.8
5	2	2445.	488.	424.	2588.	488.	424.	2588.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
6	2	1890.	0.	0.	2164.	0.	0.	2164.	4400.	0.	0.	0.	.49	62.	17.5	B	13.6	4.8
7	2	5320.	384.	516.	2548.	384.	516.	2548.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
8	2	880.	0.	0.	2032.	0.	0.	2032.	4400.	0.	0.	0.	.46	62.	16.4	B	14.9	4.8
9	2	1125.	208.	0.	2240.	208.	0.	2240.	4400.	0.	0.	0.	.51	62.	18.1	C	19.9	4.8
10	3	6320.	304.	292.	2544.	304.	292.	2544.	5600.	0.	0.	0.	.45	62.	13.7	B	19.9	4.8
11	2	2050.	0.	0.	2252.	0.	0.	2252.	4100.	0.	0.	0.	.55	62.	18.2	C	19.9	4.8
12	3	2560.	508.	0.	2760.	508.	0.	2760.	5561.	39.	0.	0.	.50	62.	14.8	B	17.2	4.8
13	3	1400.	0.	332.	2760.	0.	332.	2760.	5561.	39.	0.	0.	.50	62.	14.8	B	32.3	4.8
14	2	1320.	0.	0.	2428.	0.	0.	2428.	4400.	0.	0.	0.	.55	62.	19.6	C	14.9	4.8
15	3	540.	596.	1076.	3024.	596.	1076.	3024.	5216.	384.	0.	0.	.58	62.	16.3	B	12.6	4.8
16	2	1230.	0.	0.	1948.	0.	0.	1948.	4400.	0.	0.	0.	.44	62.	15.7	B	19.9	4.8
17	2	890.	580.	0.	2528.	580.	0.	2528.	4400.	0.	0.	0.	.57	62.	20.4	C	19.9	4.8
18	3	4840.	216.	420.	2744.	216.	420.	2744.	5600.	0.	0.	0.	.49	62.	14.8	B	17.2	4.8
19	2	530.	0.	0.	2324.	0.	0.	2324.	3800.	0.	0.	0.	.61	62.	18.7	C	19.9	4.8
20	2	1040.	300.	0.	2624.	300.	0.	2624.	4398.	2.	0.	0.	.60	62.	21.2	C	19.9	4.8
21	3	2810.	372.	640.	2996.	372.	640.	2996.	5579.	21.	0.	0.	.54	62.	16.1	B	24.1	4.8
22	2	1850.	0.	0.	2356.	0.	0.	2356.	4400.	0.	0.	0.	.54	62.	19.0	C	17.2	4.8
23	3	2390.	248.	124.	2604.	248.	124.	2604.	5593.	7.	0.	0.	.47	62.	14.0	B	24.1	4.8
24	3	960.	0.	1024.	2480.	0.	1500.	2480.	5600.	0.	0.	0.	.44	62.	13.3	B	17.2	4.8
25	2	1400.	0.	1456.	1456.	0.	1456.	1456.	3600.	0.	0.	0.	.40	62.	11.7	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.63 LOWEST LOS = C AVG = 62. 16.7 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	99. VEH-HRS	123. PASS-HRS	2945. VEH-HRS	3663. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	40. VEH-HRS	50. PASS-HRS	693. VEH-HRS	862. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	173. PASS-HRS	3637. VEH-HRS	4525. PASS-HRS
TOTAL TRAV DISTANCE =	6118. VEH-MI.	7611. PASS-MI.	164175. VEH-MI.	204233. PASS-MI.
AVERAGE SYSTEM SPEED =	44. MPH.		56. MPH.	
AVERAGE DENSITY =	17. VPMPL		26. VPMPL	
TOTAL FUEL =	377. GALLONS		9779. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		730. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	101.	40.08	15.18	0.23	1.43	0.25	1.92

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1900.	84.	1900.	1900.	84.	1900.	4100.	0.	0.	0.	.46	62.	15.3	B	13.6	4.8
2	2	1970.	0.	0.	1816.	0.	0.	1816.	4100.	0.	0.	0.	.44	62.	14.6	B	13.6	4.8
3	2	1830.	240.	156.	2056.	240.	156.	2056.	4100.	0.	0.	0.	.50	62.	16.6	B	13.6	4.8
4	2	2010.	0.	0.	1900.	0.	0.	1900.	4400.	0.	0.	0.	.43	62.	15.3	B	13.6	4.8
5	2	2445.	312.	348.	2212.	312.	348.	2212.	4100.	0.	0.	0.	.54	62.	17.8	B	13.6	4.8
6	2	1890.	0.	0.	1864.	0.	0.	1864.	4400.	0.	0.	0.	.42	62.	15.0	B	13.6	4.8
7	2	5320.	452.	536.	2316.	452.	536.	2316.	4100.	0.	0.	0.	.56	62.	18.7	C	13.6	4.8
8	2	880.	0.	0.	1780.	0.	0.	1780.	4400.	0.	0.	0.	.40	62.	14.4	B	14.9	4.8
9	2	1125.	140.	0.	1920.	140.	0.	1920.	4400.	0.	0.	0.	.44	62.	15.5	B	19.9	4.8
10	3	6320.	324.	388.	2244.	324.	388.	2244.	5600.	0.	0.	0.	.40	62.	12.1	B	19.9	4.8
11	2	2050.	0.	0.	1856.	0.	0.	1856.	4100.	0.	0.	0.	.45	62.	15.0	B	19.9	4.8
12	3	2560.	452.	0.	2308.	452.	0.	2308.	5577.	23.	0.	0.	.41	62.	12.4	B	17.2	4.8
13	3	1400.	0.	388.	2308.	0.	388.	2308.	5577.	23.	0.	0.	.41	62.	12.4	B	32.3	4.8
14	2	1320.	0.	0.	1920.	0.	0.	1920.	4400.	0.	0.	0.	.44	62.	15.5	B	14.9	4.8
15	3	540.	724.	936.	2644.	724.	936.	2644.	5132.	468.	0.	0.	.52	62.	14.2	B	12.6	4.8
16	2	1230.	0.	0.	1708.	0.	0.	1708.	4400.	0.	0.	0.	.39	62.	13.8	B	19.9	4.8
17	2	890.	532.	0.	2240.	532.	0.	2240.	4400.	0.	0.	0.	.51	62.	18.1	C	19.9	4.8
18	3	4840.	204.	364.	2444.	204.	364.	2444.	5600.	0.	0.	0.	.44	62.	13.1	B	17.2	4.8
19	2	530.	0.	0.	2080.	0.	0.	2080.	3800.	0.	0.	0.	.55	62.	16.8	B	19.9	4.8
20	2	1040.	296.	0.	2376.	296.	0.	2376.	4400.	0.	0.	0.	.54	62.	19.2	C	19.9	4.8
21	3	2810.	372.	808.	2748.	372.	808.	2748.	5594.	6.	0.	0.	.49	62.	14.8	B	24.1	4.8
22	2	1850.	0.	0.	1940.	0.	0.	1940.	4400.	0.	0.	0.	.44	62.	15.6	B	17.2	4.8
23	3	2390.	196.	92.	2136.	196.	92.	2136.	5600.	0.	0.	0.	.38	62.	11.5	B	24.1	4.8
24	3	960.	0.	1132.	2044.	0.	1500.	2044.	5600.	0.	0.	0.	.37	62.	11.0	A	17.2	4.8
25	2	1400.	0.	912.	912.	0.	912.	912.	3600.	0.	0.	0.	.25	62.	7.4	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.56		LOWEST LOS = C	AVG = 62.	14.6		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	86. VEH-HRS	107. PASS-HRS	3031. VEH-HRS	3771. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	14. VEH-HRS	17. PASS-HRS	706. VEH-HRS	879. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	100. VEH-HRS	124. PASS-HRS	3737. VEH-HRS	4649. PASS-HRS
TOTAL TRAV DISTANCE =	5343. VEH-MI.	6646. PASS-MI.	169517. VEH-MI.	210879. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		56. MPH.	
AVERAGE DENSITY =	15. VPMPL		25. VPMPL	
TOTAL FUEL =	322. GALLONS		10102. GALLONS	
TOTAL EMISSIONS =	26. KILOGRAMS		756. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	9.	13.70	5.19	0.08	0.49	0.09	0.66

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1404.	76.	1404.	1404.	76.	1404.	4100.	0.	0.	0.	.34	62.	11.3	B	13.6	4.8
2	2	1970.	0.	0.	1328.	0.	0.	1328.	4100.	0.	0.	0.	.32	62.	10.7	A	13.6	4.8
3	2	1830.	236.	108.	1564.	236.	108.	1564.	4100.	0.	0.	0.	.38	62.	12.6	B	13.6	4.8
4	2	2010.	0.	0.	1456.	0.	0.	1456.	4400.	0.	0.	0.	.33	62.	11.7	B	13.6	4.8
5	2	2445.	320.	408.	1776.	320.	408.	1776.	4100.	0.	0.	0.	.43	62.	14.3	B	13.6	4.8
6	2	1890.	0.	0.	1368.	0.	0.	1368.	4400.	0.	0.	0.	.31	62.	11.0	B	13.6	4.8
7	2	5320.	592.	408.	1960.	592.	408.	1960.	4100.	0.	0.	0.	.48	62.	15.8	B	13.6	4.8
8	2	880.	0.	0.	1552.	0.	0.	1552.	4400.	0.	0.	0.	.35	62.	12.5	B	14.9	4.8
9	2	1125.	128.	0.	1680.	128.	0.	1680.	4400.	0.	0.	0.	.38	62.	13.5	B	19.9	4.8
10	3	6320.	316.	304.	1996.	316.	304.	1996.	5600.	0.	0.	0.	.36	62.	10.7	A	19.9	4.8
11	2	2050.	0.	0.	1692.	0.	0.	1692.	4100.	0.	0.	0.	.41	62.	13.6	B	19.9	4.8
12	3	2560.	608.	0.	2300.	608.	0.	2300.	5584.	16.	0.	0.	.41	62.	12.4	B	17.2	4.8
13	3	1400.	0.	308.	2300.	0.	308.	2300.	5584.	16.	0.	0.	.41	62.	12.4	B	32.3	4.8
14	2	1320.	0.	0.	1992.	0.	0.	1992.	4400.	0.	0.	0.	.45	62.	16.1	B	14.9	4.8
15	3	540.	644.	1084.	2636.	644.	1084.	2636.	5220.	380.	0.	0.	.50	62.	14.2	B	12.6	4.8
16	2	1230.	0.	0.	1552.	0.	0.	1552.	4400.	0.	0.	0.	.35	62.	12.5	B	19.9	4.8
17	2	890.	684.	0.	2236.	684.	0.	2236.	4400.	0.	0.	0.	.51	62.	18.0	C	19.9	4.8
18	3	4840.	136.	424.	2372.	136.	424.	2372.	5600.	0.	0.	0.	.42	62.	12.8	B	17.2	4.8
19	2	530.	0.	0.	1948.	0.	0.	1948.	3800.	0.	0.	0.	.51	62.	15.7	B	19.9	4.8
20	2	1040.	260.	0.	2208.	260.	0.	2208.	4400.	0.	0.	0.	.50	62.	17.8	B	19.9	4.8
21	3	2810.	380.	628.	2588.	380.	628.	2588.	5595.	5.	0.	0.	.46	62.	13.9	B	24.1	4.8
22	2	1850.	0.	0.	1960.	0.	0.	1960.	4400.	0.	0.	0.	.45	62.	15.8	B	17.2	4.8
23	3	2390.	220.	120.	2180.	220.	120.	2180.	5600.	0.	0.	0.	.39	62.	11.7	B	24.1	4.8
24	3	960.	0.	1028.	2060.	0.	1028.	2060.	5600.	0.	0.	0.	.37	62.	11.1	B	17.2	4.8
25	2	1400.	0.	1032.	1032.	0.	1032.	1032.	3600.	0.	0.	0.	.29	62.	8.3	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.51		LOWEST LOS = C	AVG = 62.	12.9		17.1	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	77. VEH-HRS	96. PASS-HRS	3108. VEH-HRS	3867. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	1. VEH-HRS	1. PASS-HRS	707. VEH-HRS	880. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	78. VEH-HRS	98. PASS-HRS	3816. VEH-HRS	4747. PASS-HRS
TOTAL TRAV DISTANCE =	4795. VEH-MI.	5965. PASS-MI.	174312. VEH-MI.	216845. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		56. MPH.	
AVERAGE DENSITY =	13. VPMPL		25. VPMPL	
TOTAL FUEL =	281. GALLONS		10382. GALLONS	
TOTAL EMISSIONS =	23. KILOGRAMS		779. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	0.	1.10	0.42	0.01	0.04	0.01	0.05

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1388.	64.	1388.	1388.	64.	1388.	4100.	0.	0.	0.	.34	62.	11.2	B	13.6	4.8
2	2	1970.	0.	0.	1324.	0.	0.	1324.	4100.	0.	0.	0.	.32	62.	10.7	A	13.6	4.8
3	2	1830.	164.	96.	1488.	164.	96.	1488.	4100.	0.	0.	0.	.36	62.	12.0	B	13.6	4.8
4	2	2010.	0.	0.	1392.	0.	0.	1392.	4400.	0.	0.	0.	.32	62.	11.2	B	13.6	4.8
5	2	2445.	252.	256.	1644.	252.	256.	1644.	4100.	0.	0.	0.	.40	62.	13.3	B	13.6	4.8
6	2	1890.	0.	0.	1388.	0.	0.	1388.	4400.	0.	0.	0.	.32	62.	11.2	B	13.6	4.8
7	2	5320.	316.	356.	1704.	316.	356.	1704.	4100.	0.	0.	0.	.42	62.	13.7	B	13.6	4.8
8	2	880.	0.	0.	1348.	0.	0.	1348.	4400.	0.	0.	0.	.31	62.	10.9	A	14.9	4.8
9	2	1125.	200.	0.	1548.	200.	0.	1548.	4400.	0.	0.	0.	.35	62.	12.5	B	19.9	4.8
10	3	6320.	352.	236.	1900.	352.	236.	1900.	5600.	0.	0.	0.	.34	62.	10.2	A	19.9	4.8
11	2	2050.	0.	0.	1664.	0.	0.	1664.	4100.	0.	0.	0.	.41	62.	13.4	B	19.9	4.8
12	3	2560.	580.	0.	2244.	580.	0.	2244.	5588.	12.	0.	0.	.40	62.	12.1	B	17.2	4.8
13	3	1400.	0.	236.	2244.	0.	236.	2244.	5588.	12.	0.	0.	.40	62.	12.1	B	32.3	4.8
14	2	1320.	0.	0.	2008.	0.	0.	2008.	4400.	0.	0.	0.	.46	62.	16.2	B	14.9	4.8
15	3	540.	552.	852.	2560.	552.	852.	2560.	5232.	368.	0.	0.	.49	62.	13.8	B	12.6	4.8
16	2	1230.	0.	0.	1708.	0.	0.	1708.	4400.	0.	0.	0.	.39	62.	13.8	B	19.9	4.8
17	2	890.	632.	0.	2340.	632.	0.	2340.	4400.	0.	0.	0.	.53	62.	18.9	C	19.9	4.8
18	3	4840.	212.	448.	2552.	212.	448.	2552.	5600.	0.	0.	0.	.46	62.	13.7	B	17.2	4.8
19	2	530.	0.	0.	2104.	0.	0.	2104.	3800.	0.	0.	0.	.55	62.	17.0	B	19.9	4.8
20	2	1040.	268.	0.	2372.	268.	0.	2372.	4400.	0.	0.	0.	.54	62.	19.1	C	19.9	4.8
21	3	2810.	352.	720.	2724.	352.	720.	2724.	5592.	8.	0.	0.	.49	62.	14.6	B	24.1	4.8
22	2	1850.	0.	0.	2004.	0.	0.	2004.	4400.	0.	0.	0.	.46	62.	16.2	B	17.2	4.8
23	3	2390.	228.	68.	2232.	228.	68.	2232.	5600.	0.	0.	0.	.40	62.	12.0	B	24.1	4.8
24	3	960.	0.	900.	2164.	0.	900.	2164.	5600.	0.	0.	0.	.39	62.	11.6	B	17.2	4.8
25	2	1400.	0.	1264.	1264.	0.	1264.	1264.	3600.	0.	0.	0.	.35	62.	10.2	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.55		LOWEST LOS = C	AVG = 62.	12.8		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	77. VEH-HRS	95. PASS-HRS	3185. VEH-HRS	3962. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	707. VEH-HRS	880. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	77. VEH-HRS	95. PASS-HRS	3893. VEH-HRS	4842. PASS-HRS
TOTAL TRAV DISTANCE =	4758. VEH-MI.	5919. PASS-MI.	179070. VEH-MI.	222763. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		56. MPH.	
AVERAGE DENSITY =	13. VPMPL		24. VPMPL	
TOTAL FUEL =	276. GALLONS		10659. GALLONS	
TOTAL EMISSIONS =	23. KILOGRAMS		802. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1048.	84.	1048.	1048.	84.	1048.	4100.	0.	0.	0.	.26	62.	8.5	A	13.6	4.8
2	2	1970.	0.	0.	964.	0.	0.	964.	4100.	0.	0.	0.	.24	62.	7.8	A	13.6	4.8
3	2	1830.	168.	56.	1132.	168.	56.	1132.	4100.	0.	0.	0.	.28	62.	9.1	A	13.6	4.8
4	2	2010.	0.	0.	1076.	0.	0.	1076.	4400.	0.	0.	0.	.24	62.	8.7	A	13.6	4.8
5	2	2445.	308.	164.	1384.	308.	164.	1384.	4100.	0.	0.	0.	.34	62.	11.2	B	13.6	4.8
6	2	1890.	0.	0.	1220.	0.	0.	1220.	4400.	0.	0.	0.	.28	62.	9.8	A	13.6	4.8
7	2	5320.	388.	396.	1608.	388.	396.	1608.	4100.	0.	0.	0.	.39	62.	13.0	B	13.6	4.8
8	2	880.	0.	0.	1212.	0.	0.	1212.	4400.	0.	0.	0.	.28	62.	9.8	A	14.9	4.8
9	2	1125.	160.	0.	1372.	160.	0.	1372.	4400.	0.	0.	0.	.31	62.	11.1	B	19.9	4.8
10	3	6320.	292.	176.	1664.	292.	176.	1664.	5600.	0.	0.	0.	.30	62.	8.9	A	19.9	4.8
11	2	2050.	0.	0.	1488.	0.	0.	1488.	4100.	0.	0.	0.	.36	62.	12.0	B	19.9	4.8
12	3	2560.	444.	0.	1932.	444.	0.	1932.	5600.	0.	0.	0.	.34	62.	10.4	A	17.2	4.8
13	3	1400.	0.	244.	1932.	0.	244.	1932.	5600.	0.	0.	0.	.34	62.	10.4	A	32.3	4.8
14	2	1320.	0.	0.	1688.	0.	0.	1688.	4400.	0.	0.	0.	.38	62.	13.6	B	14.9	4.8
15	3	540.	588.	868.	2276.	588.	868.	2276.	5236.	364.	0.	0.	.43	62.	12.2	B	12.6	4.8
16	2	1230.	0.	0.	1408.	0.	0.	1408.	4400.	0.	0.	0.	.32	62.	11.4	B	19.9	4.8
17	2	890.	452.	0.	1860.	452.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
18	3	4840.	184.	308.	2044.	184.	308.	2044.	5600.	0.	0.	0.	.37	62.	11.0	A	17.2	4.8
19	2	530.	0.	0.	1736.	0.	0.	1736.	3800.	0.	0.	0.	.46	62.	14.0	B	19.9	4.8
20	2	1040.	304.	0.	2040.	304.	0.	2040.	4400.	0.	0.	0.	.46	62.	16.5	B	19.9	4.8
21	3	2810.	264.	696.	2304.	264.	696.	2304.	5600.	0.	0.	0.	.41	62.	12.4	B	24.1	4.8
22	2	1850.	0.	0.	1608.	0.	0.	1608.	4400.	0.	0.	0.	.37	62.	13.0	B	17.2	4.8
23	3	2390.	212.	72.	1820.	212.	72.	1820.	5600.	0.	0.	0.	.32	62.	9.8	A	24.1	4.8
24	3	960.	0.	868.	1748.	0.	868.	1748.	5600.	0.	0.	0.	.31	62.	9.4	A	17.2	4.8
25	2	1400.	0.	880.	880.	0.	880.	880.	3600.	0.	0.	0.	.24	62.	7.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.46		LOWEST LOS = B	AVG = 62.	10.7		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	3249. VEH-HRS	4042. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	707. VEH-HRS	880. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	3957. VEH-HRS	4922. PASS-HRS
TOTAL TRAV DISTANCE =	3989. VEH-MI.	4963. PASS-MI.	183060. VEH-MI.	227726. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		56. MPH.	
AVERAGE DENSITY =	11. VPMPL		24. VPMPL	
TOTAL FUEL =	232. GALLONS		10890. GALLONS	
TOTAL EMISSIONS =	19. KILOGRAMS		821. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1032.	64.	1032.	1032.	64.	1032.	4100.	0.	0.	0.	.25	62.	8.3	A	13.6	4.8
2	2	1970.	0.	0.	968.	0.	0.	968.	4100.	0.	0.	0.	.24	62.	7.8	A	13.6	4.8
3	2	1830.	108.	64.	1076.	108.	64.	1076.	4100.	0.	0.	0.	.26	62.	8.7	A	13.6	4.8
4	2	2010.	0.	0.	1012.	0.	0.	1012.	4400.	0.	0.	0.	.23	62.	8.2	A	13.6	4.8
5	2	2445.	132.	200.	1144.	132.	200.	1144.	4100.	0.	0.	0.	.28	62.	9.2	A	13.6	4.8
6	2	1890.	0.	0.	944.	0.	0.	944.	4400.	0.	0.	0.	.21	62.	7.6	A	13.6	4.8
7	2	5320.	308.	280.	1252.	308.	280.	1252.	4100.	0.	0.	0.	.31	62.	10.1	A	13.6	4.8
8	2	880.	0.	0.	972.	0.	0.	972.	4400.	0.	0.	0.	.22	62.	7.8	A	14.9	4.8
9	2	1125.	108.	0.	1080.	108.	0.	1080.	4400.	0.	0.	0.	.25	62.	8.7	A	19.9	4.8
10	3	6320.	156.	148.	1236.	156.	148.	1236.	5600.	0.	0.	0.	.22	62.	6.6	A	19.9	4.8
11	2	2050.	0.	0.	1088.	0.	0.	1088.	4100.	0.	0.	0.	.27	62.	8.8	A	19.9	4.8
12	3	2560.	444.	0.	1532.	444.	0.	1532.	5600.	0.	0.	0.	.27	62.	8.2	A	17.2	4.8
13	3	1400.	0.	224.	1532.	0.	224.	1532.	5600.	0.	0.	0.	.27	62.	8.2	A	32.3	4.8
14	2	1320.	0.	0.	1308.	0.	0.	1308.	4400.	0.	0.	0.	.30	62.	10.5	A	14.9	4.8
15	3	540.	484.	704.	1792.	484.	704.	1792.	5304.	296.	0.	0.	.34	62.	9.6	A	12.6	4.8
16	2	1230.	0.	0.	1088.	0.	0.	1088.	4400.	0.	0.	0.	.25	62.	8.8	A	19.9	4.8
17	2	890.	448.	0.	1536.	448.	0.	1536.	4400.	0.	0.	0.	.35	62.	12.4	B	19.9	4.8
18	3	4840.	120.	204.	1656.	120.	204.	1656.	5600.	0.	0.	0.	.30	62.	8.9	A	17.2	4.8
19	2	530.	0.	0.	1452.	0.	0.	1452.	3800.	0.	0.	0.	.38	62.	11.7	B	19.9	4.8
20	2	1040.	260.	0.	1712.	260.	0.	1712.	4400.	0.	0.	0.	.39	62.	13.8	B	19.9	4.8
21	3	2810.	224.	532.	1936.	224.	532.	1936.	5600.	0.	0.	0.	.35	62.	10.4	A	24.1	4.8
22	2	1850.	0.	0.	1404.	0.	0.	1404.	4400.	0.	0.	0.	.32	62.	11.3	B	17.2	4.8
23	3	2390.	172.	28.	1576.	172.	28.	1576.	5600.	0.	0.	0.	.28	62.	8.5	A	24.1	4.8
24	3	960.	0.	812.	1548.	0.	812.	1548.	5600.	0.	0.	0.	.28	62.	8.3	A	17.2	4.8
25	2	1400.	0.	736.	736.	0.	736.	736.	3600.	0.	0.	0.	.20	62.	5.9	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.39 LOWEST LOS = B AVG = 62. 8.8 17.1 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	53. VEH-HRS	66. PASS-HRS	3302. VEH-HRS	4108. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	707. VEH-HRS	880. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	53. VEH-HRS	66. PASS-HRS	4010. VEH-HRS	4988. PASS-HRS
TOTAL TRAV DISTANCE =	3273. VEH-MI.	4072. PASS-MI.	186332. VEH-MI.	231798. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		56. MPH.	
AVERAGE DENSITY =	9. VPMPL		23. VPMPL	
TOTAL FUEL =	191. GALLONS		11081. GALLONS	
TOTAL EMISSIONS =	16. KILOGRAMS		837. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	162.	202.	0.	0.	162.	202.	9533.	11860.	58.8	536.	2.	24.	11.	6:00
2	180.	224.	0.	0.	180.	224.	9621.	11968.	53.5	548.	2.	24.	11.	6:15
3	201.	250.	3.	4.	204.	253.	9980.	12415.	49.0	570.	2.	25.	11.	6:30
4	184.	229.	12.	15.	196.	244.	9193.	11437.	46.9	543.	2.	27.	11.	6:45
5	201.	249.	16.	19.	216.	269.	9620.	11967.	44.5	564.	2.	27.	11.	7:00
6	195.	243.	16.	20.	211.	263.	9386.	11677.	44.4	551.	2.	27.	11.	7:15
7	202.	252.	18.	22.	220.	273.	9734.	12109.	44.3	564.	2.	25.	11.	7:30
8	179.	222.	24.	30.	203.	253.	9431.	11732.	46.4	550.	2.	26.	11.	7:45
9	148.	184.	31.	39.	179.	223.	8954.	11139.	50.0	533.	2.	28.	11.	8:00
10	139.	173.	30.	38.	169.	211.	8505.	10581.	50.2	510.	2.	27.	11.	8:15
11	150.	186.	33.	41.	183.	227.	9069.	11282.	49.6	537.	2.	27.	11.	8:30
12	138.	172.	43.	53.	181.	225.	8474.	10542.	46.9	513.	2.	28.	11.	8:45
13	158.	196.	57.	71.	215.	268.	9478.	11790.	44.0	561.	2.	27.	12.	9:00
14	144.	179.	71.	88.	214.	267.	8532.	10614.	39.8	526.	2.	27.	11.	9:15
15	143.	178.	82.	101.	225.	280.	8536.	10618.	38.0	529.	2.	28.	11.	9:30
16	119.	148.	81.	101.	200.	249.	7347.	9140.	36.7	467.	2.	26.	10.	9:45
17	103.	128.	74.	92.	176.	219.	6367.	7921.	36.1	403.	2.	24.	9.	10:00
18	102.	126.	63.	78.	164.	205.	6295.	7831.	38.3	397.	1.	23.	9.	10:15
19	99.	123.	40.	50.	139.	173.	6118.	7611.	44.1	377.	1.	22.	8.	10:30
20	86.	107.	14.	17.	100.	124.	5343.	6646.	53.5	322.	1.	18.	7.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	77.	96.	1.	1.	78.	98.	4795.	5965.	61.1	281.	1.	16.	6.	11:00
22	77.	95.	0.	0.	77.	95.	4758.	5919.	62.0	276.	1.	16.	6.	11:15
23	64.	80.	0.	0.	64.	80.	3989.	4963.	62.0	232.	1.	13.	5.	11:30
24	53.	66.	0.	0.	53.	66.	3273.	4072.	62.0	191.	1.	11.	4.	11:45
TOTAL	3302.	4108.	707.	880.	4010.	4988.	186332.	231798.	56.4	11081.	37.	567.	233.	

Existing (2019) plus Final Build
(Aux Lanes and BOS)
Southbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	876.	0.	876.	876.	0.	876.	3850.	0.	0.	0.	.23	50.	8.8	A	17.4	2.3
2	2	2070.	260.	0.	1136.	260.	0.	1136.	3850.	0.	0.	0.	.30	50.	11.4	B	15.9	2.3
3	3	2300.	360.	52.	1496.	360.	52.	1496.	5700.	0.	0.	0.	.26	55.	9.1	A	14.0	2.4
4	3	1020.	0.	0.	1444.	0.	0.	1444.	5700.	0.	0.	0.	.25	62.	7.8	A	19.9	4.8
5	3	710.	108.	0.	1552.	108.	0.	1552.	5700.	0.	0.	0.	.27	62.	8.3	A	16.1	4.4
6	3	3820.	72.	200.	1624.	72.	200.	1624.	6150.	0.	0.	0.	.26	62.	8.7	A	17.1	4.8
7	2	1220.	0.	0.	1424.	0.	0.	1424.	4400.	0.	0.	0.	.32	62.	11.5	B	18.2	4.4
8	3	4810.	204.	132.	1628.	204.	132.	1628.	6100.	0.	0.	0.	.27	62.	8.8	A	20.6	4.4
9	2	1370.	0.	0.	1496.	0.	0.	1496.	4000.	0.	0.	0.	.37	62.	12.1	B	23.6	4.4
10	2	660.	96.	0.	1592.	96.	0.	1592.	4398.	2.	0.	0.	.36	62.	12.8	B	23.6	4.4
11	3	790.	212.	104.	1804.	212.	104.	1804.	6098.	2.	0.	0.	.30	62.	9.7	A	30.0	4.4
12	2	1460.	0.	0.	1700.	0.	0.	1700.	4100.	0.	0.	0.	.41	62.	13.7	B	20.6	4.4
13	3	1400.	112.	0.	1812.	112.	0.	1812.	6097.	3.	0.	0.	.30	62.	9.7	A	13.6	4.4
14	3	2600.	0.	44.	1812.	0.	44.	1812.	6097.	3.	0.	0.	.30	62.	9.7	A	20.6	4.4
15	2	2010.	0.	0.	1768.	0.	0.	1768.	3900.	0.	0.	0.	.45	62.	14.3	B	14.7	4.4
16	3	6120.	136.	88.	1904.	136.	88.	1904.	6100.	0.	0.	0.	.31	62.	10.2	A	18.2	4.4
17	2	1240.	0.	0.	1816.	0.	0.	1816.	4300.	0.	0.	0.	.42	62.	14.6	B	18.2	4.4
18	2	930.	56.	0.	1872.	56.	0.	1872.	4100.	0.	0.	0.	.46	62.	15.1	B	20.6	4.4
19	2	5330.	64.	64.	1936.	64.	64.	1936.	3950.	0.	0.	0.	.49	62.	15.6	B	20.6	4.4
20	2	2830.	0.	0.	1872.	0.	0.	1872.	3800.	0.	0.	0.	.49	61.	15.3	B	21.1	3.8
21	2	1660.	160.	140.	2032.	160.	140.	2032.	4300.	0.	0.	0.	.47	61.	16.7	B	21.1	3.8
22	2	2270.	0.	0.	1892.	0.	0.	1892.	4400.	0.	0.	0.	.43	62.	15.3	B	20.6	4.4
23	2	3040.	20.	56.	1912.	20.	56.	1912.	4100.	0.	0.	0.	.47	62.	15.4	B	20.6	4.4
24	2	2190.	0.	0.	1856.	0.	0.	1856.	4200.	0.	0.	0.	.44	65.	14.3	B	19.2	6.1
25	3	2400.	56.	1912.	1912.	56.	1912.	1912.	6150.	0.	0.	0.	.31	65.	9.8	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.49		LOWEST LOS = B	AVG = 61.	12.0		18.9	4.4

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 1 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	74. VEH-HRS	86. PASS-HRS	74. VEH-HRS	86. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	74. VEH-HRS	86. PASS-HRS	74. VEH-HRS	86. PASS-HRS
TOTAL TRAV DISTANCE =	4535. VEH-MI.	5261. PASS-MI.	4535. VEH-MI.	5261. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	12. VPMPL		12. VPMPL	
TOTAL FUEL =	240. GALLONS		240. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		20. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1256.	0.	1256.	1256.	0.	1256.	3850.	0.	0.	0.	.33	50.	12.6	B	17.4	2.3
2	2	2070.	268.	0.	1524.	268.	0.	1524.	3850.	0.	0.	0.	.40	50.	15.2	B	15.9	2.3
3	3	2300.	536.	52.	2060.	536.	52.	2060.	5700.	0.	0.	0.	.36	55.	12.5	B	14.0	2.4
4	3	1020.	0.	0.	2008.	0.	0.	2008.	5700.	0.	0.	0.	.35	62.	10.8	A	19.9	4.8
5	3	710.	64.	0.	2072.	64.	0.	2072.	5700.	0.	0.	0.	.36	62.	11.1	B	16.1	4.4
6	3	3820.	92.	220.	2164.	92.	220.	2164.	6150.	0.	0.	0.	.35	62.	11.6	B	17.1	4.8
7	2	1220.	0.	0.	1944.	0.	0.	1944.	4400.	0.	0.	0.	.44	62.	15.7	B	18.2	4.4
8	3	4810.	188.	148.	2132.	188.	148.	2132.	6100.	0.	0.	0.	.35	62.	11.5	B	20.6	4.4
9	2	1370.	0.	0.	1984.	0.	0.	1984.	4000.	0.	0.	0.	.50	62.	16.0	B	23.6	4.4
10	2	660.	52.	0.	2036.	52.	0.	2036.	4398.	2.	0.	0.	.46	62.	16.4	B	23.6	4.4
11	3	790.	160.	116.	2196.	160.	116.	2196.	6098.	2.	0.	0.	.36	62.	11.8	B	30.0	4.4
12	2	1460.	0.	0.	2080.	0.	0.	2080.	4100.	0.	0.	0.	.51	62.	16.8	B	20.6	4.4
13	3	1400.	124.	0.	2204.	124.	0.	2204.	6096.	4.	0.	0.	.36	62.	11.8	B	13.6	4.4
14	3	2600.	0.	52.	2204.	0.	52.	2204.	6096.	4.	0.	0.	.36	62.	11.8	B	20.6	4.4
15	2	2010.	0.	0.	2152.	0.	0.	2152.	3900.	0.	0.	0.	.55	62.	17.4	B	14.7	4.4
16	3	6120.	120.	132.	2272.	120.	132.	2272.	6100.	0.	0.	0.	.37	62.	12.2	B	18.2	4.4
17	2	1240.	0.	0.	2140.	0.	0.	2140.	4300.	0.	0.	0.	.50	62.	17.3	B	18.2	4.4
18	2	930.	88.	0.	2228.	88.	0.	2228.	4100.	0.	0.	0.	.54	62.	18.0	B	20.6	4.4
19	2	5330.	84.	80.	2312.	84.	80.	2312.	3950.	0.	0.	0.	.59	62.	18.6	C	20.6	4.4
20	2	2830.	0.	0.	2232.	0.	0.	2232.	3800.	0.	0.	0.	.59	61.	18.3	C	21.1	3.8
21	2	1660.	148.	116.	2380.	148.	116.	2380.	4300.	0.	0.	0.	.55	61.	19.5	C	21.1	3.8
22	2	2270.	0.	0.	2264.	0.	0.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	20.6	4.4
23	2	3040.	64.	88.	2328.	64.	88.	2328.	4100.	0.	0.	0.	.57	62.	18.8	C	20.6	4.4
24	2	2190.	0.	0.	2240.	0.	0.	2240.	4200.	0.	0.	0.	.53	65.	17.2	B	19.2	6.1
25	3	2400.	76.	2316.	2316.	76.	2316.	2316.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.59		LOWEST LOS = C	AVG = 61.	14.9		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	92. VEH-HRS	106. PASS-HRS	165. VEH-HRS	192. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	92. VEH-HRS	106. PASS-HRS	165. VEH-HRS	192. PASS-HRS
TOTAL TRAV DISTANCE =	5625. VEH-MI.	6525. PASS-MI.	10161. VEH-MI.	11786. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	15. VPMPL		13. VPMPL	
TOTAL FUEL =	299. GALLONS		539. GALLONS	
TOTAL EMISSIONS =	25. KILOGRAMS		45. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1780.	0.	1780.	1780.	0.	1780.	3850.	0.	0.	0.	.46	50.	17.8	B	17.4	2.3
2	2	2070.	372.	0.	2152.	372.	0.	2152.	3848.	2.	0.	0.	.56	50.	21.5	C	15.9	2.3
3	3	2300.	744.	80.	2896.	744.	80.	2896.	5688.	12.	0.	0.	.51	55.	17.6	B	14.0	2.4
4	3	1020.	0.	0.	2816.	0.	0.	2816.	5700.	0.	0.	0.	.49	62.	15.1	B	19.9	4.8
5	3	710.	120.	0.	2936.	120.	0.	2936.	5700.	0.	0.	0.	.52	62.	15.8	B	16.1	4.4
6	3	3820.	144.	412.	3080.	144.	412.	3080.	6150.	0.	0.	0.	.50	62.	16.6	B	17.1	4.8
7	2	1220.	0.	0.	2668.	0.	0.	2668.	4400.	0.	0.	0.	.61	62.	21.5	C	18.2	4.4
8	3	4810.	292.	220.	2960.	292.	220.	2960.	6100.	0.	0.	0.	.49	62.	15.9	B	20.6	4.4
9	2	1370.	0.	0.	2740.	0.	0.	2740.	4000.	0.	0.	0.	.68	62.	22.1	C	23.6	4.4
10	2	660.	112.	0.	2852.	112.	0.	2852.	4398.	2.	0.	0.	.65	62.	23.0	C	23.6	4.4
11	3	790.	344.	152.	3196.	344.	152.	3196.	6043.	57.	0.	0.	.53	62.	17.2	B	30.0	4.4
12	2	1460.	0.	0.	3044.	0.	0.	3044.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
13	3	1400.	240.	0.	3284.	240.	0.	3284.	6092.	8.	0.	0.	.54	62.	17.7	B	13.6	4.4
14	3	2600.	0.	92.	3284.	0.	92.	3284.	6092.	8.	0.	0.	.54	62.	17.7	B	20.6	4.4
15	2	2010.	0.	0.	3192.	0.	0.	3192.	3900.	0.	0.	0.	.82	61.	26.3	D	15.1	3.5
16	3	6120.	132.	120.	3324.	132.	120.	3324.	6100.	0.	0.	0.	.54	62.	17.9	B	18.2	4.4
17	2	1240.	0.	0.	3204.	0.	0.	3204.	4300.	0.	0.	0.	.75	62.	25.9	C	18.3	4.2
18	2	930.	140.	0.	3344.	140.	0.	3344.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
19	2	5330.	92.	116.	3436.	92.	116.	3436.	3950.	0.	0.	0.	.87	59.	29.1	D	21.9	3.0
20	2	2830.	0.	0.	3320.	0.	0.	3320.	3800.	0.	0.	0.	.87	58.	28.4	D	22.1	2.8
21	2	1660.	160.	192.	3480.	160.	192.	3480.	4300.	0.	0.	0.	.81	60.	29.0	D	21.6	3.2
22	2	2270.	0.	0.	3288.	0.	0.	3288.	4400.	0.	0.	0.	.75	62.	26.6	D	20.7	4.2
23	2	3040.	96.	56.	3384.	96.	56.	3384.	4100.	0.	0.	0.	.83	60.	28.0	D	21.4	3.4
24	2	2190.	0.	0.	3328.	0.	0.	3328.	4200.	0.	0.	0.	.79	63.	26.3	D	19.9	5.1
25	3	2400.	84.	3412.	3412.	84.	3412.	3412.	6150.	0.	0.	0.	.55	65.	17.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.87		LOWEST LOS = D	AVG = 61.	21.9		19.1	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	300. VEH-HRS	348. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	300. VEH-HRS	348. PASS-HRS
TOTAL TRAV DISTANCE =	8168. VEH-MI.	9475. PASS-MI.	18329. VEH-MI.	21262. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		16. VPMPL	
TOTAL FUEL =	427. GALLONS		966. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		77. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2356.	0.	2356.	2356.	0.	2356.	3850.	0.	0.	0.	.61	50.	23.6	C	17.4	2.3
2	2	2070.	496.	0.	2852.	496.	0.	2852.	3844.	6.	0.	0.	.74	50.	28.5	D	15.9	2.3
3	3	2300.	880.	108.	3732.	880.	108.	3732.	5655.	45.	0.	0.	.66	55.	22.6	C	14.0	2.4
4	3	1020.	0.	0.	3624.	0.	0.	3624.	5700.	0.	0.	0.	.64	62.	19.5	C	19.9	4.8
5	3	710.	168.	0.	3792.	168.	0.	3792.	5700.	0.	0.	0.	.67	62.	20.4	C	16.1	4.4
6	3	3820.	284.	688.	4076.	284.	688.	4076.	6150.	0.	0.	0.	.66	62.	21.9	C	17.1	4.8
7	2	1220.	0.	0.	3388.	0.	0.	3388.	4400.	0.	0.	0.	.77	61.	27.6	D	18.4	4.1
8	3	4810.	348.	340.	3736.	348.	340.	3736.	6100.	0.	0.	0.	.61	62.	20.1	C	20.6	4.4
9	2	1370.	0.	0.	3396.	0.	0.	3396.	4000.	0.	0.	0.	.85	60.	28.4	D	24.9	3.1
10	2	660.	128.	0.	3524.	128.	0.	3524.	4395.	5.	0.	0.	.80	61.	28.9	D	24.2	3.8
11	3	790.	364.	356.	3888.	364.	356.	3888.	5818.	282.	0.	0.	.67	62.	20.9	C	30.0	4.4
12	2	1460.	0.	0.	3532.	0.	0.	3532.	4100.	0.	0.	0.	.86	59.	29.7	D	21.8	3.0
13	3	1400.	244.	0.	3776.	244.	0.	3776.	6084.	16.	0.	0.	.62	62.	20.3	C	13.6	4.4
14	3	2600.	0.	228.	3776.	0.	228.	3776.	6084.	16.	0.	0.	.62	62.	20.3	C	20.6	4.4
15	2	2010.	0.	0.	3548.	0.	0.	3548.	3900.	0.	0.	0.	.91	57.	30.9	D	15.9	2.6
16	3	6120.	276.	232.	3824.	276.	232.	3824.	6100.	0.	0.	0.	.63	62.	20.6	C	18.2	4.4
17	2	1240.	0.	0.	3592.	0.	0.	3592.	4300.	0.	0.	0.	.84	60.	29.8	D	19.0	3.3
18	2	930.	176.	0.	3768.	176.	0.	3768.	4100.	0.	0.	0.	.92	57.	33.1	D	22.5	2.4
19	2	5330.	152.	148.	3920.	152.	148.	3920.	3950.	0.	0.	0.	.99	52.	37.6	E	23.8	2.0
20	2	2830.	0.	0.	3772.	0.	0.	3772.	3800.	0.	0.	0.	.99	52.	36.3	E	23.9	2.0
21	2	1660.	356.	400.	4128.	356.	400.	4128.	4300.	0.	0.	0.	.96	54.	38.1	E	23.3	2.0
22	2	2270.	0.	0.	3728.	0.	0.	3728.	4400.	0.	0.	0.	.85	60.	31.2	D	21.7	3.1
23	2	3040.	112.	100.	3840.	112.	100.	3840.	4100.	0.	0.	0.	.94	56.	34.3	D	22.8	2.2
24	2	2190.	0.	0.	3740.	0.	0.	3740.	4200.	0.	0.	0.	.89	60.	31.3	D	21.7	3.1
25	3	2400.	92.	3832.	3832.	92.	3832.	3832.	6150.	0.	0.	0.	.62	65.	19.7	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.99		LOWEST LOS = E	AVG = 58.	27.1		19.6	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	166. VEH-HRS	192. PASS-HRS	466. VEH-HRS	541. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	166. VEH-HRS	192. PASS-HRS	466. VEH-HRS	541. PASS-HRS
TOTAL TRAV DISTANCE =	9682. VEH-MI.	11231. PASS-MI.	28011. VEH-MI.	32492. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		60. MPH.	
AVERAGE DENSITY =	27. VPMPL		19. VPMPL	
TOTAL FUEL =	494. GALLONS		1459. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		111. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1096.	0.	1096.	1096.	0.	1096.	3850.	0.	0.	0.	.28	50.	11.0	A	17.4	2.3
2	2	2070.	632.	0.	1728.	632.	0.	1728.	3850.	0.	0.	0.	.45	50.	17.3	B	15.9	2.3
3	3	2300.	1088.	164.	2816.	1088.	164.	2816.	5625.	75.	0.	0.	.50	55.	17.1	B	14.0	2.4
4	3	1020.	0.	0.	2652.	0.	0.	2652.	5700.	0.	0.	0.	.47	62.	14.3	B	19.9	4.8
5	3	710.	176.	0.	2828.	176.	0.	2828.	5700.	0.	0.	0.	.50	62.	15.2	B	16.1	4.4
6	3	3820.	388.	596.	3216.	388.	596.	3216.	6150.	0.	0.	0.	.52	62.	17.3	B	17.1	4.8
7	2	1220.	0.	0.	2620.	0.	0.	2620.	4400.	0.	0.	0.	.60	62.	21.1	C	18.2	4.4
8	3	4810.	440.	356.	3060.	440.	356.	3060.	6100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
9	2	1370.	0.	0.	2704.	0.	0.	2704.	4000.	0.	0.	0.	.68	62.	21.8	C	23.6	4.4
10	2	660.	140.	0.	2844.	140.	0.	2844.	4391.	9.	0.	0.	.65	62.	22.9	C	23.6	4.4
11	3	790.	564.	464.	3408.	564.	464.	3408.	5701.	399.	0.	0.	.60	62.	18.3	C	30.0	4.4
12	2	1460.	0.	0.	2944.	0.	0.	2944.	4100.	0.	0.	0.	.72	62.	23.7	C	20.6	4.4
13	3	1400.	352.	0.	3296.	352.	0.	3296.	6076.	24.	0.	0.	.54	62.	17.7	B	13.6	4.4
14	3	2600.	0.	224.	3296.	0.	224.	3296.	6076.	24.	0.	0.	.54	62.	17.7	B	20.6	4.4
15	2	2010.	0.	0.	3072.	0.	0.	3072.	3900.	0.	0.	0.	.79	62.	24.8	C	14.7	4.4
16	3	6120.	300.	316.	3372.	300.	316.	3372.	6100.	0.	0.	0.	.55	62.	18.1	C	18.2	4.4
17	2	1240.	0.	0.	3056.	0.	0.	3056.	4300.	0.	0.	0.	.71	62.	24.6	C	18.2	4.4
18	2	930.	244.	0.	3300.	244.	0.	3300.	4100.	0.	0.	0.	.80	61.	27.1	D	21.1	3.7
19	2	5330.	216.	244.	3516.	216.	244.	3516.	3950.	0.	0.	0.	.89	58.	30.2	D	22.1	2.8
20	2	2830.	0.	0.	3272.	0.	0.	3272.	3800.	0.	0.	0.	.86	59.	27.8	D	22.0	2.9
21	2	1660.	584.	736.	3856.	584.	736.	3856.	3946.	354.	0.	0.	.98	53.	36.4	E	23.6	2.0
22	2	2270.	0.	0.	3120.	0.	0.	3120.	4400.	0.	0.	0.	.71	62.	25.2	C	20.6	4.3
23	2	3040.	144.	120.	3264.	144.	120.	3264.	4100.	0.	0.	0.	.80	61.	26.7	D	21.0	3.8
24	2	2190.	0.	0.	3144.	0.	0.	3144.	4200.	0.	0.	0.	.75	64.	24.5	C	19.5	5.6
25	3	2400.	120.	3264.	3264.	120.	3264.	3264.	6150.	0.	0.	0.	.53	65.	16.7	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.98		LOWEST LOS = E	AVG = 61.	21.7		19.2	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	600. VEH-HRS	696. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	600. VEH-HRS	696. PASS-HRS
TOTAL TRAV DISTANCE =	8100. VEH-MI.	9396. PASS-MI.	36110. VEH-MI.	41888. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		20. VPMPL	
TOTAL FUEL =	422. GALLONS		1882. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		144. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1352.	0.	1352.	1352.	0.	1352.	3850.	0.	0.	0.	.35	50.	13.5	B	17.4	2.3
2	2	2070.	780.	0.	2132.	780.	0.	2132.	3850.	0.	0.	0.	.55	50.	21.3	C	15.9	2.3
3	3	2300.	1460.	244.	3592.	1460.	244.	3592.	5556.	144.	0.	0.	.65	55.	21.8	C	14.0	2.4
4	3	1020.	0.	0.	3348.	0.	0.	3348.	5700.	0.	0.	0.	.59	62.	18.0	B	19.9	4.8
5	3	710.	248.	0.	3596.	248.	0.	3596.	5700.	0.	0.	0.	.63	62.	19.3	C	16.1	4.4
6	3	3820.	384.	876.	3980.	384.	876.	3980.	6150.	0.	0.	0.	.65	62.	21.4	C	17.1	4.8
7	2	1220.	0.	0.	3104.	0.	0.	3104.	4400.	0.	0.	0.	.71	62.	25.1	C	18.2	4.3
8	3	4810.	496.	396.	3600.	496.	396.	3600.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
9	2	1370.	0.	0.	3204.	0.	0.	3204.	4000.	0.	0.	0.	.80	61.	26.3	D	24.2	3.8
10	2	660.	184.	0.	3388.	184.	0.	3388.	4387.	13.	0.	0.	.77	61.	27.6	D	23.9	4.0
11	3	790.	520.	568.	3908.	520.	568.	3908.	5641.	459.	0.	0.	.69	62.	21.0	C	30.0	4.4
12	2	1460.	0.	0.	3340.	0.	0.	3340.	4100.	0.	0.	0.	.81	61.	27.5	D	21.2	3.6
13	3	1400.	448.	0.	3788.	448.	0.	3788.	6040.	60.	0.	0.	.63	62.	20.4	C	13.6	4.4
14	3	2600.	0.	512.	3788.	0.	512.	3788.	6040.	60.	0.	0.	.63	62.	20.4	C	20.6	4.4
15	2	2010.	0.	0.	3276.	0.	0.	3276.	3900.	0.	0.	0.	.84	60.	27.3	D	15.3	3.2
16	3	6120.	420.	356.	3696.	420.	356.	3696.	6100.	0.	0.	0.	.61	62.	19.9	C	18.2	4.4
17	2	1240.	0.	0.	3340.	0.	0.	3340.	4300.	0.	0.	0.	.78	61.	27.2	D	18.4	4.0
18	2	930.	356.	0.	3696.	356.	0.	3696.	4100.	0.	0.	0.	.90	58.	32.0	D	22.3	2.6
19	2	5330.	184.	344.	3880.	184.	344.	3724.	3950.	0.	* 424.	156.	.94	53.	35.3	F	23.6	2.0
20	2	2830.	0.	0.	3536.	0.	0.	3380.	3800.	0.	** 2830.	156.	.89	35.	48.6	F	21.5	2.8
21	2	1660.	592.	612.	4128.	592.	589.	3972.	3972.	328.	0.	0.	1.00	51.	38.7	E	24.0	2.0
22	2	2270.	0.	0.	3516.	0.	0.	3383.	4400.	0.	0.	0.	.77	61.	27.5	D	20.8	4.1
23	2	3040.	328.	212.	3844.	328.	205.	3711.	4100.	0.	0.	0.	.91	58.	32.2	D	22.3	2.6
24	2	2190.	0.	0.	3632.	0.	0.	3507.	4200.	0.	0.	0.	.83	62.	28.3	D	20.5	4.4
25	3	2400.	152.	3784.	3784.	152.	3659.	3659.	6150.	0.	0.	0.	.59	65.	18.8	C	18.6	6.6
TOTAL		54750. =	10.4 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 57.	26.1	19.4	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	161. VEH-HRS	187. PASS-HRS	761. VEH-HRS	883. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	161. VEH-HRS	187. PASS-HRS	761. VEH-HRS	883. PASS-HRS
TOTAL TRAV DISTANCE =	9215. VEH-MI.	10689. PASS-MI.	45325. VEH-MI.	52577. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		60. MPH.	
AVERAGE DENSITY =	26. VPMPL		21. VPMPL	
TOTAL FUEL =	475. GALLONS		2357. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		178. KILOGRAMS	

QUEUE SPLIT SECTION 19

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1184.	0.	1184.	1184.	0.	1184.	3850.	0.	0.	0.	.31	50.	11.8	B	17.4	2.3
2	2	2070.	1048.	0.	2232.	1048.	0.	2232.	3850.	0.	0.	0.	.58	50.	22.3	C	15.9	2.3
3	3	2300.	1704.	304.	3936.	1704.	304.	3936.	5528.	172.	0.	0.	.71	55.	23.9	C	14.0	2.4
4	3	1020.	0.	0.	3632.	0.	0.	3632.	5700.	0.	0.	0.	.64	62.	19.5	C	19.9	4.8
5	3	710.	336.	0.	3968.	336.	0.	3968.	5700.	0.	0.	0.	.70	62.	21.3	C	16.1	4.4
6	3	3820.	420.	848.	4388.	420.	848.	4388.	6150.	0.	0.	0.	.71	62.	23.6	C	17.1	4.8
7	2	1220.	0.	0.	3540.	0.	0.	3540.	4400.	0.	0.	0.	.80	61.	29.1	D	18.6	3.7
8	3	4810.	720.	500.	4260.	720.	500.	4260.	6100.	0.	0.	0.	.70	62.	22.9	C	20.6	4.4
9	2	1370.	0.	0.	3760.	0.	0.	3760.	4000.	0.	0.	0.	.94	56.	33.7	D	26.7	2.2
10	2	660.	272.	0.	4032.	272.	0.	4032.	4384.	16.	0.	0.	.92	57.	35.5	E	26.2	2.4
11	3	790.	648.	608.	4680.	648.	608.	4680.	5556.	544.	0.	0.	.84	60.	26.0	D	31.7	3.2
12	2	1460.	0.	0.	4072.	0.	0.	4072.	4100.	0.	0.	0.	.99	52.	39.1	E	23.8	2.0
13	3	1400.	428.	0.	4500.	428.	0.	4500.	6000.	100.	0.	0.	.75	62.	24.2	C	13.6	4.4
14	3	2600.	0.	1044.	4500.	0.	1044.	4500.	6000.	100.	0.	0.	.75	62.	24.2	C	20.6	4.4
15	2	2010.	0.	0.	3456.	0.	0.	3456.	3900.	0.	0.	0.	.89	58.	29.6	D	15.7	2.8
16	3	6120.	504.	360.	3960.	504.	360.	3960.	6100.	0.	0.	0.	.65	62.	21.3	C	18.2	4.4
17	2	1240.	0.	0.	3600.	0.	0.	3526.	4300.	0. *	392.	74.	.82	53.	33.2	F	18.7	3.3
18	2	930.	264.	0.	3864.	264.	0.	3790.	4100.	0. **	930.	74.	.92	34.	55.5	F	21.9	2.7
19	2	5330.	160.	304.	4024.	160.	298.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3720.	0.	0.	3675.	3800.	0. *	1993.	-24.	.97	37.	49.8	F	22.7	2.5
21	2	1660.	512.	428.	4232.	512.	423.	4187.	4187.	113.	0.	0.	1.00	51.	40.8	E	24.0	2.0
22	2	2270.	0.	0.	3804.	0.	0.	3764.	4400.	0.	0.	0.	.86	60.	31.6	D	21.7	3.1
23	2	3040.	328.	220.	4132.	328.	218.	4092.	4100.	0.	0.	0.	.99	52.	39.6	E	23.9	2.0
24	2	2190.	0.	0.	3912.	0.	0.	3874.	4200.	0.	0.	0.	.92	58.	33.4	D	22.2	2.7
25	3	2400.	208.	4120.	4120.	208.	4082.	4082.	6150.	0.	0.	0.	.66	65.	20.9	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 56.	29.8		19.8	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	183. VEH-HRS	212. PASS-HRS	943. VEH-HRS	1094. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	183. VEH-HRS	212. PASS-HRS	943. VEH-HRS	1094. PASS-HRS
TOTAL TRAV DISTANCE =	10164. VEH-MI.	11790. PASS-MI.	55488. VEH-MI.	64367. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		59. MPH.	
AVERAGE DENSITY =	30. VPMPL		22. VPMPL	
TOTAL FUEL =	514. GALLONS		2871. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		213. KILOGRAMS	

QUEUE COLLISION IN SECTION 19 T2 =0.207

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1496.	0.	1496.	1496.	0.	1496.	3850.	0.	0.	0.	.39	50.	15.0	B	17.4	2.3
2	2	2070.	996.	0.	2492.	996.	0.	2492.	3848.	2.	0.	0.	.65	50.	24.9	C	15.9	2.3
3	3	2300.	1728.	352.	4220.	1728.	352.	4220.	5488.	212.	0.	0.	.77	55.	25.6	C	14.0	2.4
4	3	1020.	0.	0.	3868.	0.	0.	3868.	5700.	0.	0.	0.	.68	62.	20.8	C	19.9	4.8
5	3	710.	384.	0.	4252.	384.	0.	4252.	5700.	0.	0.	0.	.75	62.	22.9	C	16.1	4.4
6	3	3820.	460.	932.	4712.	460.	932.	4712.	6132.	18.	0.	0.	.77	61.	25.5	C	17.3	4.5
7	2	1220.	0.	0.	3780.	0.	0.	3780.	4400.	0.	0.	0.	.86	59.	31.8	D	19.2	3.1
8	3	4810.	720.	536.	4500.	720.	536.	4300.	6100.	0.	* 418.	200.	.70	59.	24.3	F	20.5	4.4
9	2	1370.	0.	0.	3964.	0.	0.	3764.	4000.	0.	** 1370.	200.	.94	40.	46.9	F	28.2	2.3
10	2	660.	348.	0.	4312.	348.	0.	4112.	4376.	24.	** 660.	200.	.94	37.	55.8	F	28.2	2.5
11	3	790.	724.	736.	5036.	724.	736.	4836.	5452.	648.	** 790.	200.	.89	28.	57.1	F	33.8	3.2
12	2	1460.	0.	0.	4300.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	456.	0.	4756.	456.	0.	4556.	5980.	120.	0.	0.	.76	62.	24.5	C	13.6	4.4
14	3	2600.	0.	1256.	4756.	0.	1203.	4556.	5980.	120.	0.	0.	.76	62.	24.5	C	20.6	4.4
15	2	2010.	0.	0.	3500.	0.	0.	3353.	3900.	0.	0.	0.	.86	59.	28.2	D	15.4	3.1
16	3	6120.	556.	436.	4056.	556.	420.	3909.	6100.	0.	0.	0.	.64	62.	21.0	C	18.2	4.4
17	2	1240.	0.	0.	3620.	0.	0.	3205.	4300.	0.	* 854.	284.	.75	50.	32.1	F	18.2	3.7
18	2	930.	320.	0.	3940.	320.	0.	3525.	4100.	0.	** 930.	284.	.86	29.	61.5	F	21.2	3.0
19	2	5330.	160.	364.	4100.	160.	351.	3685.	3950.	0.	** 5330.	265.	.93	39.	47.7	F	22.8	2.4
20	2	2830.	0.	0.	3736.	0.	0.	3334.	3800.	0.	B* 2830.	265.	.88	25.	65.6	F	20.2	3.4
21	2	1660.	696.	504.	4432.	696.	458.	4024.	4024.	276.	0.	0.	1.00	51.	39.2	E	24.0	2.0
22	2	2270.	0.	0.	3928.	0.	0.	3567.	4400.	0.	0.	0.	.81	61.	29.3	D	21.2	3.6
23	2	3040.	304.	352.	4232.	304.	322.	3871.	4100.	0.	0.	0.	.94	55.	34.9	D	23.0	2.1
24	2	2190.	0.	0.	3880.	0.	0.	3549.	4200.	0.	0.	0.	.84	62.	28.8	D	20.7	4.2
25	3	2400.	212.	4092.	4092.	212.	3761.	3761.	6150.	0.	0.	0.	.61	65.	19.3	C	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 51. 32.5 19.5 3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	201. VEH-HRS	233. PASS-HRS	1144. VEH-HRS	1327. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	201. VEH-HRS	233. PASS-HRS	1144. VEH-HRS	1327. PASS-HRS
TOTAL TRAV DISTANCE =	10157. VEH-MI.	11782. PASS-MI.	65645. VEH-MI.	76149. PASS-MI.
AVERAGE SYSTEM SPEED =	51. MPH.		57. MPH.	
AVERAGE DENSITY =	33. VPMPL		23. VPMPL	
TOTAL FUEL =	522. GALLONS		3393. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		250. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 13	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	1.	0.17	0.06	0.00	0.01	0.00	0.01
	TOTAL	1.	0.17	0.06	0.00	0.01	0.00	0.01

```
QUEUE SPLIT SECTION 10
QUEUE SPLIT SECTION  9
QUEUE SPLIT SECTION 19
QUEUE CLEAR SECTION  20 FT=    85
QUEUE CLEAR SECTION  11 T2 =0.248
QUEUE CLEAR SECTION  10 FT=   102
QUEUE CLEAR SECTION   9 T2 =0.227
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2544.	0.	2544.	2544.	0.	2544.	3850.	0.	0.	0.	.66	50.	25.4	C	17.4	2.3
2	2	2070.	848.	0.	3392.	848.	0.	3392.	3824.	26.	0.	0.	.89	50.	33.9	D	15.9	2.3
3	3	2300.	1556.	372.	4948.	1556.	372.	4948.	5415.	285.	0.	0.	.91	55.	30.0	D	14.0	2.4
4	3	1020.	0.	0.	4576.	0.	0.	4576.	5700.	0.	0.	0.	.80	62.	24.6	C	19.9	4.8
5	3	710.	296.	0.	4872.	296.	0.	4872.	5700.	0.	0.	0.	.85	60.	27.2	D	17.0	3.1
6	3	3820.	324.	1148.	5196.	324.	1148.	5196.	6087.	63.	0.	0.	.85	60.	29.0	D	18.0	3.6
7	2	1220.	0.	0.	4048.	0.	0.	4048.	4400.	0.	0.	0.	.92	57.	35.6	E	19.9	2.4
8	3	4810.	632.	816.	4680.	632.	816.	4680.	6100.	0.	0.	0.	.77	58.	26.9	D	20.7	4.1
9	2	1370.	0.	0.	3864.	0.	0.	3964.	4000.	0.	0.	-100.	.99	41.	47.8	F	27.6	2.2
10	2	660.	252.	0.	4116.	252.	0.	4234.	4376.	24.	0.	-18.	.97	41.	51.3	F	27.8	2.3
11	3	790.	672.	996.	4788.	672.	1021.	4966.	5540.	560.	0.	-60.	.90	37.	44.8	E	33.5	3.0
12	2	1460.	0.	0.	3792.	0.	0.	3946.	4100.	0.	0.	0.	.96	54.	36.3	E	23.3	2.0
13	3	1400.	524.	0.	4316.	524.	0.	4470.	5988.	112.	0.	0.	.75	62.	24.0	C	13.6	4.4
14	3	2600.	0.	916.	4316.	0.	949.	4470.	5988.	112.	0.	0.	.75	62.	24.0	C	20.6	4.4
15	2	2010.	0.	0.	3400.	0.	0.	3521.	3900.	0.	0.	0.	.90	58.	30.5	D	15.8	2.6
16	3	6120.	488.	524.	3888.	488.	540.	4009.	6100.	0.	0.	0.	.66	62.	21.6	C	18.2	4.4
17	2	1240.	0.	0.	3364.	0.	0.	3430.	4300.	0.	** 1240.	39.	.80	21.	80.5	F	15.5	4.3
18	2	930.	344.	0.	3708.	344.	0.	3774.	4100.	0.	** 930.	39.	.92	29.	64.6	F	21.3	3.0
19	2	5330.	176.	424.	3884.	176.	431.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3460.	0.	0.	3617.	3800.	0.	0.	-98.	.95	41.	44.1	E	22.5	2.5
21	2	1660.	496.	416.	3956.	496.	433.	4118.	4209.	91.	0.	0.	.98	53.	38.9	E	23.6	2.0
22	2	2270.	0.	0.	3540.	0.	0.	3685.	4400.	0.	0.	0.	.84	60.	30.6	D	21.6	3.3
23	2	3040.	104.	308.	3644.	104.	320.	3789.	4100.	0.	0.	0.	.92	57.	33.5	D	22.6	2.4
24	2	2190.	0.	0.	3336.	0.	0.	3469.	4200.	0.	0.	0.	.83	62.	27.8	D	20.4	4.6
25	3	2400.	216.	3552.	3552.	216.	3685.	3685.	6150.	0.	0.	0.	.60	65.	18.9	C	18.6	6.6
TOTAL		54750. =	10.4 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 53.	32.7		19.5	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	201. VEH-HRS	233. PASS-HRS	1345. VEH-HRS	1560. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	201. VEH-HRS	233. PASS-HRS	1345. VEH-HRS	1560. PASS-HRS
TOTAL TRAV DISTANCE =	10631. VEH-MI.	12332. PASS-MI.	76277. VEH-MI.	88481. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		57. MPH.	
AVERAGE DENSITY =	33. VPMPL		24. VPMPL	
TOTAL FUEL =	544. GALLONS		3937. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		285. KILOGRAMS	

QUEUE CLEAR SECTION 18 FT= 427

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1132.	0.	1132.	1132.	0.	1132.	3850.	0.	0.	0.	.29	50.	11.3	B	17.4	2.3
2	2	2070.	864.	0.	1996.	864.	0.	1996.	3850.	0.	0.	0.	.52	50.	20.0	C	15.9	2.3
3	3	2300.	1668.	388.	3664.	1668.	388.	3664.	5488.	212.	0.	0.	.67	55.	22.2	C	14.0	2.4
4	3	1020.	0.	0.	3276.	0.	0.	3276.	5700.	0.	0.	0.	.57	62.	17.6	B	19.9	4.8
5	3	710.	312.	0.	3588.	312.	0.	3588.	5700.	0.	0.	0.	.63	62.	19.3	C	16.1	4.4
6	3	3820.	480.	1092.	4068.	480.	1092.	4068.	6080.	70.	0.	0.	.67	62.	21.9	C	17.1	4.8
7	2	1220.	0.	0.	2976.	0.	0.	2976.	4400.	0.	0.	0.	.68	62.	24.0	C	18.2	4.4
8	3	4810.	640.	696.	3616.	640.	696.	3616.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
9	2	1370.	0.	0.	2920.	0.	0.	2920.	4000.	0.	0.	0.	.73	62.	23.5	C	23.6	4.4
10	2	660.	284.	0.	3204.	284.	0.	3204.	4375.	25.	0.	0.	.73	62.	25.9	C	23.7	4.3
11	3	790.	576.	760.	3780.	576.	760.	3780.	5609.	491.	0.	0.	.67	62.	20.3	C	30.0	4.4
12	2	1460.	0.	0.	3020.	0.	0.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
13	3	1400.	500.	0.	3520.	500.	0.	3520.	6000.	100.	0.	0.	.59	62.	18.9	C	13.6	4.4
14	3	2600.	0.	708.	3520.	0.	708.	3520.	6000.	100.	0.	0.	.59	62.	18.9	C	20.6	4.4
15	2	2010.	0.	0.	2812.	0.	0.	2812.	3900.	0.	0.	0.	.72	62.	22.7	C	14.7	4.4
16	3	6120.	580.	508.	3392.	580.	508.	3392.	6100.	0.	0.	0.	.56	62.	18.2	C	18.2	4.4
17	2	1240.	0.	0.	2884.	0.	0.	2884.	4300.	0.	0.	0.	.67	27.	53.4	F	16.1	4.7
18	2	930.	296.	0.	3180.	296.	0.	3373.	4100.	0.	0.	-193.	.82	22.	78.0	F	18.9	4.1
19	2	5330.	124.	484.	3304.	124.	512.	3497.	3950.	0.	0.	0.	.89	58.	29.9	D	22.1	2.8
20	2	2830.	0.	0.	2820.	0.	0.	2985.	3800.	0.	0.	0.	.79	61.	24.5	C	21.1	3.8
21	2	1660.	548.	516.	3368.	548.	541.	3533.	4106.	194.	0.	0.	.86	59.	30.0	D	22.0	2.9
22	2	2270.	0.	0.	2852.	0.	0.	2992.	4400.	0.	0.	0.	.68	62.	24.1	C	20.6	4.4
23	2	3040.	204.	336.	3056.	204.	351.	3196.	4100.	0.	0.	0.	.78	61.	26.0	D	20.9	4.0
24	2	2190.	0.	0.	2720.	0.	0.	2844.	4200.	0.	0.	0.	.68	65.	21.9	C	19.2	6.1
25	3	2400.	160.	2880.	2880.	160.	3004.	3004.	6150.	0.	0.	0.	.49	65.	15.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.89	LOWEST LOS = F		AVG = 58.	23.9		18.9	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	147. VEH-HRS	171. PASS-HRS	1492. VEH-HRS	1731. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	147. VEH-HRS	171. PASS-HRS	1492. VEH-HRS	1731. PASS-HRS
TOTAL TRAV DISTANCE =	8488. VEH-MI.	9846. PASS-MI.	84765. VEH-MI.	98327. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		57. MPH.	
AVERAGE DENSITY =	24. VPMPL		24. VPMPL	
TOTAL FUEL =	450. GALLONS		4387. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		321. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1864.	0.	1864.	1864.	0.	1864.	3850.	0.	0.	0.	.48	50.	18.6	C	17.4	2.3
2	2	2070.	800.	0.	2664.	800.	0.	2664.	3839.	11.	0.	0.	.69	50.	26.6	D	15.9	2.3
3	3	2300.	1772.	324.	4436.	1772.	324.	4436.	5490.	210.	0.	0.	.81	55.	26.9	D	14.0	2.4
4	3	1020.	0.	0.	4112.	0.	0.	4112.	5700.	0.	0.	0.	.72	62.	22.1	C	19.9	4.8
5	3	710.	352.	0.	4464.	352.	0.	4464.	5700.	0.	0.	0.	.78	62.	24.0	C	16.1	4.4
6	3	3820.	400.	1056.	4864.	400.	1056.	4864.	6103.	47.	0.	0.	.80	61.	26.6	D	17.5	4.3
7	2	1220.	0.	0.	3808.	0.	0.	3808.	4400.	0.	0.	0.	.87	59.	32.1	D	19.3	3.0
8	3	4810.	724.	776.	4532.	724.	776.	4532.	6100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
9	2	1370.	0.	0.	3756.	0.	0.	3756.	4000.	0.	0.	0.	.94	56.	33.7	D	26.7	2.2
10	2	660.	268.	0.	4024.	268.	0.	4024.	4380.	20.	0.	0.	.92	57.	35.4	E	26.2	2.4
11	3	790.	524.	764.	4548.	524.	764.	4548.	5640.	460.	0.	0.	.81	62.	24.5	C	30.0	4.4
12	2	1460.	0.	0.	3784.	0.	0.	3784.	4100.	0.	0.	0.	.92	57.	33.4	D	22.6	2.4
13	3	1400.	460.	0.	4244.	460.	0.	4244.	6008.	92.	0.	0.	.71	62.	22.8	C	13.6	4.4
14	3	2600.	0.	832.	4244.	0.	832.	4244.	6008.	92.	0.	0.	.71	62.	22.8	C	20.6	4.4
15	2	2010.	0.	0.	3412.	0.	0.	3412.	3900.	0.	0.	0.	.87	59.	29.0	D	15.6	2.9
16	3	6120.	388.	596.	3800.	388.	596.	3800.	6100.	0.	0.	0.	.62	62.	20.4	C	18.2	4.4
17	2	1240.	0.	0.	3204.	0.	0.	3204.	4300.	0.	0.	0.	.75	62.	25.9	C	18.3	4.2
18	2	930.	228.	0.	3432.	228.	0.	3432.	4100.	0.	0.	0.	.84	60.	28.5	D	21.6	3.3
19	2	5330.	112.	488.	3544.	112.	488.	3544.	3950.	0.	0.	0.	.90	58.	30.6	D	22.2	2.7
20	2	2830.	0.	0.	3056.	0.	0.	3056.	3800.	0.	0.	0.	.80	61.	25.0	C	21.1	3.8
21	2	1660.	472.	456.	3528.	472.	456.	3528.	4201.	99.	0.	0.	.84	59.	29.7	D	21.8	3.0
22	2	2270.	0.	0.	3072.	0.	0.	3072.	4400.	0.	0.	0.	.70	62.	24.8	C	20.6	4.4
23	2	3040.	200.	284.	3272.	200.	284.	3272.	4100.	0.	0.	0.	.80	61.	26.8	D	21.1	3.8
24	2	2190.	0.	0.	2988.	0.	0.	2988.	4200.	0.	0.	0.	.71	65.	23.1	C	19.3	5.9
25	3	2400.	168.	3156.	3156.	168.	3156.	3156.	6150.	0.	0.	0.	.51	65.	16.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.94		LOWEST LOS = E	AVG = 60.	25.7		19.1	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	161. VEH-HRS	187. PASS-HRS	1653. VEH-HRS	1918. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	161. VEH-HRS	187. PASS-HRS	1654. VEH-HRS	1918. PASS-HRS
TOTAL TRAV DISTANCE =	9690. VEH-MI.	11240. PASS-MI.	94455. VEH-MI.	109567. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	26. VPMPL		24. VPMPL	
TOTAL FUEL =	507. GALLONS		4894. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		358. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1420.	0.	1420.	1420.	0.	1420.	3850.	0.	0.	0.	.37	50.	14.2	B	17.4	2.3
2	2	2070.	908.	0.	2328.	908.	0.	2328.	3850.	0.	0.	0.	.60	50.	23.3	C	15.9	2.3
3	3	2300.	1796.	344.	4124.	1796.	344.	4124.	5504.	196.	0.	0.	.75	55.	25.0	C	14.0	2.4
4	3	1020.	0.	0.	3780.	0.	0.	3780.	5700.	0.	0.	0.	.66	62.	20.3	C	19.9	4.8
5	3	710.	296.	0.	4076.	296.	0.	4076.	5700.	0.	0.	0.	.72	62.	21.9	C	16.1	4.4
6	3	3820.	380.	1036.	4456.	380.	1036.	4456.	6121.	29.	0.	0.	.73	62.	24.0	C	17.1	4.8
7	2	1220.	0.	0.	3420.	0.	0.	3420.	4400.	0.	0.	0.	.78	61.	27.9	D	18.4	4.0
8	3	4810.	644.	708.	4064.	644.	708.	4064.	6100.	0.	0.	0.	.67	62.	21.8	C	20.6	4.4
9	2	1370.	0.	0.	3356.	0.	0.	3356.	4000.	0.	0.	0.	.84	60.	27.9	D	24.7	3.2
10	2	660.	272.	0.	3628.	272.	0.	3628.	4375.	25.	0.	0.	.83	60.	30.1	D	24.6	3.4
11	3	790.	672.	872.	4300.	672.	872.	4300.	5533.	567.	0.	0.	.78	62.	23.1	C	30.0	4.4
12	2	1460.	0.	0.	3428.	0.	0.	3428.	4100.	0.	0.	0.	.84	60.	28.5	D	21.5	3.3
13	3	1400.	416.	0.	3844.	416.	0.	3844.	5972.	128.	0.	0.	.64	62.	20.7	C	13.6	4.4
14	3	2600.	0.	1192.	3844.	0.	1192.	3844.	5972.	128.	0.	0.	.64	62.	20.7	C	20.6	4.4
15	2	2010.	0.	0.	2652.	0.	0.	2652.	3900.	0.	0.	0.	.68	62.	21.4	C	14.7	4.4
16	3	6120.	460.	692.	3112.	460.	692.	3112.	6100.	0.	0.	0.	.51	62.	16.7	B	18.2	4.4
17	2	1240.	0.	0.	2420.	0.	0.	2420.	4300.	0.	0.	0.	.56	62.	19.5	C	18.2	4.4
18	2	930.	236.	0.	2656.	236.	0.	2656.	4100.	0.	0.	0.	.65	62.	21.4	C	20.6	4.4
19	2	5330.	116.	404.	2772.	116.	404.	2772.	3950.	0.	0.	0.	.70	62.	22.4	C	20.6	4.4
20	2	2830.	0.	0.	2368.	0.	0.	2368.	3800.	0.	0.	0.	.62	61.	19.4	C	21.1	3.8
21	2	1660.	416.	424.	2784.	416.	424.	2784.	4282.	18.	0.	0.	.65	61.	22.8	C	21.1	3.8
22	2	2270.	0.	0.	2360.	0.	0.	2360.	4400.	0.	0.	0.	.54	62.	19.0	C	20.6	4.4
23	2	3040.	148.	284.	2508.	148.	284.	2508.	4100.	0.	0.	0.	.61	62.	20.2	C	20.6	4.4
24	2	2190.	0.	0.	2224.	0.	0.	2224.	4200.	0.	0.	0.	.53	65.	17.1	B	19.2	6.1
25	3	2400.	108.	2332.	2332.	108.	2332.	2332.	6150.	0.	0.	0.	.38	65.	12.0	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.84 LOWEST LOS = D AVG = 61. 21.1 18.7 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	1787. VEH-HRS	2073. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	1787. VEH-HRS	2073. PASS-HRS
TOTAL TRAV DISTANCE =	8176. VEH-MI.	9484. PASS-MI.	102630. VEH-MI.	119051. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		57. MPH.	
AVERAGE DENSITY =	21. VPMPL		24. VPMPL	
TOTAL FUEL =	436. GALLONS		5331. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		393. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2184.	0.	2184.	2184.	0.	2184.	3850.	0.	0.	0.	.57	50.	21.8	C	17.4	2.3
2	2	2070.	832.	0.	3016.	832.	0.	3016.	3837.	13.	0.	0.	.79	50.	30.2	D	15.9	2.3
3	3	2300.	1392.	204.	4408.	1392.	204.	4408.	5552.	148.	0.	0.	.79	55.	26.7	D	14.0	2.4
4	3	1020.	0.	0.	4204.	0.	0.	4204.	5700.	0.	0.	0.	.74	62.	22.6	C	19.9	4.8
5	3	710.	288.	0.	4492.	288.	0.	4492.	5700.	0.	0.	0.	.79	62.	24.2	C	16.1	4.4
6	3	3820.	452.	876.	4944.	452.	876.	4944.	6150.	0.	0.	0.	.80	61.	27.0	D	17.6	4.2
7	2	1220.	0.	0.	4068.	0.	0.	4068.	4400.	0.	0.	0.	.92	57.	35.9	E	20.0	2.4
8	3	4810.	652.	668.	4720.	652.	668.	4668.	6100.	0. *	356.	52.	.77	56.	27.7	F	20.7	4.0
9	2	1370.	0.	0.	4052.	0.	0.	4000.	4000.	0.	0.	0.	1.00	52.	38.8	E	28.4	2.0
10	2	660.	184.	0.	4236.	184.	0.	4184.	4387.	13.	0.	0.	.95	55.	38.1	E	27.1	2.0
11	3	790.	636.	704.	4872.	636.	697.	4797.	5541.	559. *	263.	23.	.87	48.	33.6	F	32.3	3.1
12	2	1460.	0.	0.	4168.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	432.	0.	4600.	432.	0.	4532.	5960.	140.	0.	0.	.76	62.	24.4	C	13.6	4.4
14	3	2600.	0.	1492.	4600.	0.	1470.	4532.	5960.	140.	0.	0.	.76	62.	24.4	C	20.6	4.4
15	2	2010.	0.	0.	3108.	0.	0.	3062.	3900.	0.	0.	0.	.79	62.	24.7	C	14.7	4.4
16	3	6120.	352.	680.	3460.	352.	671.	3414.	6100.	0.	0.	0.	.56	62.	18.4	C	18.2	4.4
17	2	1240.	0.	0.	2780.	0.	0.	2743.	4300.	0.	0.	0.	.64	62.	22.1	C	18.2	4.4
18	2	930.	276.	0.	3056.	276.	0.	3019.	4100.	0.	0.	0.	.74	62.	24.3	C	20.6	4.4
19	2	5330.	100.	420.	3156.	100.	415.	3119.	3950.	0.	0.	0.	.79	61.	25.5	C	21.0	3.9
20	2	2830.	0.	0.	2736.	0.	0.	2704.	3800.	0.	0.	0.	.71	61.	22.2	C	21.1	3.8
21	2	1660.	368.	320.	3104.	368.	317.	3072.	4300.	0.	0.	0.	.71	61.	25.2	C	21.1	3.8
22	2	2270.	0.	0.	2784.	0.	0.	2755.	4400.	0.	0.	0.	.63	62.	22.2	C	20.6	4.4
23	2	3040.	104.	252.	2888.	104.	250.	2859.	4100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
24	2	2190.	0.	0.	2636.	0.	0.	2610.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	124.	2760.	2760.	124.	2734.	2734.	6150.	0.	0.	0.	.44	65.	14.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 59.	25.0		19.0	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	158. VEH-HRS	184. PASS-HRS	1946. VEH-HRS	2257. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	158. VEH-HRS	184. PASS-HRS	1946. VEH-HRS	2257. PASS-HRS
TOTAL TRAV DISTANCE =	9352. VEH-MI.	10848. PASS-MI.	111982. VEH-MI.	129899. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		58. MPH.	
AVERAGE DENSITY =	25. VPMPL		24. VPMPL	
TOTAL FUEL =	492. GALLONS		5822. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		430. KILOGRAMS	

```
QUEUE CLEAR SECTION  11 T2 =0.246
QUEUE CLEAR SECTION   8 FT=     0
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1948.	0.	1948.	1948.	0.	1948.	3850.	0.	0.	0.	.51	50.	19.5	C	17.4	2.3
2	2	2070.	792.	0.	2740.	792.	0.	2740.	3835.	15.	0.	0.	.71	50.	27.4	D	15.9	2.3
3	3	2300.	1452.	336.	4192.	1452.	336.	4192.	5461.	239.	0.	0.	.77	55.	25.4	C	14.0	2.4
4	3	1020.	0.	0.	3856.	0.	0.	3856.	5700.	0.	0.	0.	.68	62.	20.7	C	19.9	4.8
5	3	710.	220.	0.	4076.	220.	0.	4076.	5700.	0.	0.	0.	.72	62.	21.9	C	16.1	4.4
6	3	3820.	316.	776.	4392.	316.	776.	4392.	6150.	0.	0.	0.	.71	62.	23.6	C	17.1	4.8
7	2	1220.	0.	0.	3616.	0.	0.	3616.	4400.	0.	0.	0.	.82	61.	29.9	D	18.8	3.5
8	3	4810.	576.	668.	4192.	576.	668.	4255.	6100.	0.	0.	-63.	.70	55.	25.9	C	20.3	4.4
9	2	1370.	0.	0.	3524.	0.	0.	3587.	4000.	0.	0.	0.	.90	58.	30.9	D	25.7	2.7
10	2	660.	292.	0.	3816.	292.	0.	3879.	4382.	18.	0.	0.	.89	58.	33.2	D	25.4	2.8
11	3	790.	520.	564.	4336.	520.	572.	4433.	5626.	474.	0.	-34.	.79	45.	33.0	D	29.5	4.4
12	2	1460.	0.	0.	3772.	0.	0.	3860.	4100.	0.	0.	0.	.94	56.	34.7	D	22.9	2.1
13	3	1400.	312.	0.	4084.	312.	0.	4172.	5996.	104.	0.	0.	.70	62.	22.4	C	13.6	4.4
14	3	2600.	0.	1348.	4084.	0.	1377.	4172.	5996.	104.	0.	0.	.70	62.	22.4	C	20.6	4.4
15	2	2010.	0.	0.	2736.	0.	0.	2795.	3900.	0.	0.	0.	.72	62.	22.5	C	14.7	4.4
16	3	6120.	372.	652.	3108.	372.	664.	3167.	6100.	0.	0.	0.	.52	62.	17.0	B	18.2	4.4
17	2	1240.	0.	0.	2456.	0.	0.	2503.	4300.	0.	0.	0.	.58	62.	20.2	C	18.2	4.4
18	2	930.	300.	0.	2756.	300.	0.	2803.	4100.	0.	0.	0.	.68	62.	22.6	C	20.6	4.4
19	2	5330.	116.	376.	2872.	116.	382.	2919.	3950.	0.	0.	0.	.74	62.	23.5	C	20.6	4.4
20	2	2830.	0.	0.	2496.	0.	0.	2537.	3800.	0.	0.	0.	.67	61.	20.8	C	21.1	3.8
21	2	1660.	344.	428.	2840.	344.	434.	2881.	4300.	0.	0.	0.	.67	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	2412.	0.	0.	2447.	4400.	0.	0.	0.	.56	62.	19.7	C	20.6	4.4
23	2	3040.	124.	228.	2536.	124.	231.	2571.	4100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
24	2	2190.	0.	0.	2308.	0.	0.	2339.	4200.	0.	0.	0.	.56	65.	18.0	B	19.2	6.1
25	3	2400.	64.	2372.	2372.	64.	2403.	2403.	6150.	0.	0.	0.	.39	65.	12.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES									MAX(V/C) = 0.94	LOWEST LOS = D	AVG = 59.	22.6		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	144. VEH-HRS	167. PASS-HRS	2089. VEH-HRS	2423. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	144. VEH-HRS	167. PASS-HRS	2089. VEH-HRS	2424. PASS-HRS
TOTAL TRAV DISTANCE =	8534. VEH-MI.	9900. PASS-MI.	120517. VEH-MI.	139799. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		58. MPH.	
AVERAGE DENSITY =	23. VPMPL		24. VPMPL	
TOTAL FUEL =	455. GALLONS		6277. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		465. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1628.	0.	1628.	1628.	0.	1628.	3850.	0.	0.	0.	.42	50.	16.3	B	17.4	2.3
2	2	2070.	764.	0.	2392.	764.	0.	2392.	3845.	5.	0.	0.	.62	50.	23.9	C	15.9	2.3
3	3	2300.	1472.	264.	3864.	1472.	264.	3864.	5531.	169.	0.	0.	.70	55.	23.4	C	14.0	2.4
4	3	1020.	0.	0.	3600.	0.	0.	3600.	5700.	0.	0.	0.	.63	62.	19.4	C	19.9	4.8
5	3	710.	236.	0.	3836.	236.	0.	3836.	5700.	0.	0.	0.	.67	62.	20.6	C	16.1	4.4
6	3	3820.	332.	840.	4168.	332.	840.	4168.	6150.	0.	0.	0.	.68	62.	22.4	C	17.1	4.8
7	2	1220.	0.	0.	3328.	0.	0.	3328.	4400.	0.	0.	0.	.76	62.	27.0	D	18.3	4.1
8	3	4810.	452.	760.	3780.	452.	760.	3780.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	3020.	0.	0.	3020.	4000.	0.	0.	0.	.76	62.	24.4	C	23.6	4.4
10	2	660.	260.	0.	3280.	260.	0.	3280.	4380.	20.	0.	0.	.75	62.	26.6	D	23.7	4.2
11	3	790.	472.	632.	3752.	472.	632.	3752.	5684.	416.	0.	0.	.66	62.	20.2	C	30.0	4.4
12	2	1460.	0.	0.	3120.	0.	0.	3120.	4100.	0.	0.	0.	.76	62.	25.3	C	20.8	4.1
13	3	1400.	340.	0.	3460.	340.	0.	3460.	6036.	64.	0.	0.	.57	62.	18.6	C	13.6	4.4
14	3	2600.	0.	656.	3460.	0.	656.	3460.	6036.	64.	0.	0.	.57	62.	18.6	C	20.6	4.4
15	2	2010.	0.	0.	2804.	0.	0.	2804.	3900.	0.	0.	0.	.72	62.	22.6	C	14.7	4.4
16	3	6120.	428.	540.	3232.	428.	540.	3232.	6100.	0.	0.	0.	.53	62.	17.4	B	18.2	4.4
17	2	1240.	0.	0.	2692.	0.	0.	2692.	4300.	0.	0.	0.	.63	62.	21.7	C	18.2	4.4
18	2	930.	332.	0.	3024.	332.	0.	3024.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
19	2	5330.	120.	492.	3144.	120.	492.	3144.	3950.	0.	0.	0.	.80	61.	25.7	C	21.0	3.8
20	2	2830.	0.	0.	2652.	0.	0.	2652.	3800.	0.	0.	0.	.70	61.	21.7	C	21.1	3.8
21	2	1660.	276.	364.	2928.	276.	364.	2928.	4300.	0.	0.	0.	.68	61.	24.0	C	21.1	3.8
22	2	2270.	0.	0.	2564.	0.	0.	2564.	4400.	0.	0.	0.	.58	62.	20.7	C	20.6	4.4
23	2	3040.	76.	208.	2640.	76.	208.	2640.	4100.	0.	0.	0.	.64	62.	21.3	C	20.6	4.4
24	2	2190.	0.	0.	2432.	0.	0.	2432.	4200.	0.	0.	0.	.58	65.	18.7	C	19.2	6.1
25	3	2400.	104.	2536.	2536.	104.	2536.	2536.	6150.	0.	0.	0.	.41	65.	13.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 61.	21.3		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2223. VEH-HRS	2579. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2223. VEH-HRS	2579. PASS-HRS
TOTAL TRAV DISTANCE =	8183. VEH-MI.	9492. PASS-MI.	128699. VEH-MI.	149291. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		58. MPH.	
AVERAGE DENSITY =	21. VPMPL		24. VPMPL	
TOTAL FUEL =	436. GALLONS		6713. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		500. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1728.	0.	1728.	1728.	0.	1728.	3850.	0.	0.	0.	.45	50.	17.3	B	17.4	2.3
2	2	2070.	724.	0.	2452.	724.	0.	2452.	3842.	8.	0.	0.	.64	50.	24.5	C	15.9	2.3
3	3	2300.	1572.	308.	4024.	1572.	308.	4024.	5503.	197.	0.	0.	.73	55.	24.4	C	14.0	2.4
4	3	1020.	0.	0.	3716.	0.	0.	3716.	5700.	0.	0.	0.	.65	62.	20.0	C	19.9	4.8
5	3	710.	200.	0.	3916.	200.	0.	3916.	5700.	0.	0.	0.	.69	62.	21.1	C	16.1	4.4
6	3	3820.	456.	952.	4372.	456.	952.	4372.	6132.	18.	0.	0.	.71	62.	23.5	C	17.1	4.8
7	2	1220.	0.	0.	3420.	0.	0.	3420.	4400.	0.	0.	0.	.78	61.	27.9	D	18.4	4.0
8	3	4810.	580.	704.	4000.	580.	704.	4000.	6100.	0.	0.	0.	.66	62.	21.5	C	20.6	4.4
9	2	1370.	0.	0.	3296.	0.	0.	3296.	4000.	0.	0.	0.	.82	60.	27.2	D	24.5	3.5
10	2	660.	200.	0.	3496.	200.	0.	3496.	4382.	18.	0.	0.	.80	61.	28.6	D	24.1	3.8
11	3	790.	496.	768.	3992.	496.	768.	3992.	5678.	422.	0.	0.	.70	62.	21.5	C	30.0	4.4
12	2	1460.	0.	0.	3224.	0.	0.	3224.	4100.	0.	0.	0.	.79	61.	26.3	D	21.0	3.9
13	3	1400.	424.	0.	3648.	424.	0.	3648.	6032.	68.	0.	0.	.60	62.	19.6	C	13.6	4.4
14	3	2600.	0.	576.	3648.	0.	576.	3648.	6032.	68.	0.	0.	.60	62.	19.6	C	20.6	4.4
15	2	2010.	0.	0.	3072.	0.	0.	3072.	3900.	0.	0.	0.	.79	62.	24.8	C	14.7	4.4
16	3	6120.	396.	588.	3468.	396.	588.	3468.	6100.	0.	0.	0.	.57	62.	18.6	C	18.2	4.4
17	2	1240.	0.	0.	2880.	0.	0.	2880.	4300.	0.	0.	0.	.67	62.	23.2	C	18.2	4.4
18	2	930.	236.	0.	3116.	236.	0.	3116.	4100.	0.	0.	0.	.76	62.	25.3	C	20.8	4.1
19	2	5330.	140.	520.	3256.	140.	520.	3256.	3950.	0.	0.	0.	.82	60.	26.9	D	21.4	3.5
20	2	2830.	0.	0.	2736.	0.	0.	2736.	3800.	0.	0.	0.	.72	61.	22.4	C	21.1	3.8
21	2	1660.	336.	464.	3072.	336.	464.	3072.	4300.	0.	0.	0.	.71	61.	25.2	C	21.1	3.8
22	2	2270.	0.	0.	2608.	0.	0.	2608.	4400.	0.	0.	0.	.59	62.	21.0	C	20.6	4.4
23	2	3040.	100.	260.	2708.	100.	260.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	20.6	4.4
24	2	2190.	0.	0.	2448.	0.	0.	2448.	4200.	0.	0.	0.	.58	65.	18.8	C	19.2	6.1
25	3	2400.	80.	2528.	2528.	80.	2528.	2528.	6150.	0.	0.	0.	.41	65.	13.0	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.82 LOWEST LOS = D AVG = 61. 22.3 18.8 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	140. VEH-HRS	163. PASS-HRS	2363. VEH-HRS	2742. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	163. PASS-HRS	2364. VEH-HRS	2742. PASS-HRS
TOTAL TRAV DISTANCE =	8561. VEH-MI.	9930. PASS-MI.	137260. VEH-MI.	159222. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		58. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	455. GALLONS		7169. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		536. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2012.	0.	2012.	2012.	0.	2012.	3850.	0.	0.	0.	.52	50.	20.1	C	17.4	2.3
2	2	2070.	784.	0.	2796.	784.	0.	2796.	3837.	13.	0.	0.	.73	50.	28.0	D	15.9	2.3
3	3	2300.	1288.	252.	4084.	1288.	252.	4084.	5521.	179.	0.	0.	.74	55.	24.8	C	14.0	2.4
4	3	1020.	0.	0.	3832.	0.	0.	3832.	5700.	0.	0.	0.	.67	62.	20.6	C	19.9	4.8
5	3	710.	208.	0.	4040.	208.	0.	4040.	5700.	0.	0.	0.	.71	62.	21.7	C	16.1	4.4
6	3	3820.	360.	916.	4400.	360.	916.	4400.	6150.	0.	0.	0.	.72	62.	23.7	C	17.1	4.8
7	2	1220.	0.	0.	3484.	0.	0.	3484.	4400.	0.	0.	0.	.79	61.	28.5	D	18.5	3.9
8	3	4810.	520.	852.	4004.	520.	852.	4004.	6100.	0.	0.	0.	.66	62.	21.5	C	20.6	4.4
9	2	1370.	0.	0.	3152.	0.	0.	3152.	4000.	0.	0.	0.	.79	61.	25.7	C	24.0	3.9
10	2	660.	168.	0.	3320.	168.	0.	3320.	4387.	13.	0.	0.	.76	62.	26.9	D	23.8	4.1
11	3	790.	588.	684.	3908.	588.	684.	3908.	5601.	499.	0.	0.	.70	62.	21.0	C	30.0	4.4
12	2	1460.	0.	0.	3224.	0.	0.	3224.	4100.	0.	0.	0.	.79	61.	26.3	D	21.0	3.9
13	3	1400.	404.	0.	3628.	404.	0.	3628.	6036.	64.	0.	0.	.60	62.	19.5	C	13.6	4.4
14	3	2600.	0.	564.	3628.	0.	564.	3628.	6036.	64.	0.	0.	.60	62.	19.5	C	20.6	4.4
15	2	2010.	0.	0.	3064.	0.	0.	3064.	3900.	0.	0.	0.	.79	62.	24.7	C	14.7	4.4
16	3	6120.	340.	712.	3404.	340.	712.	3404.	6100.	0.	0.	0.	.56	62.	18.3	C	18.2	4.4
17	2	1240.	0.	0.	2692.	0.	0.	2692.	4300.	0.	0.	0.	.63	62.	21.7	C	18.2	4.4
18	2	930.	264.	0.	2956.	264.	0.	2956.	4100.	0.	0.	0.	.72	62.	23.8	C	20.6	4.4
19	2	5330.	128.	504.	3084.	128.	504.	3084.	3950.	0.	0.	0.	.78	61.	25.1	C	20.9	4.0
20	2	2830.	0.	0.	2580.	0.	0.	2580.	3800.	0.	0.	0.	.68	61.	21.1	C	21.1	3.8
21	2	1660.	252.	416.	2832.	252.	416.	2832.	4300.	0.	0.	0.	.66	61.	23.2	C	21.1	3.8
22	2	2270.	0.	0.	2416.	0.	0.	2416.	4400.	0.	0.	0.	.55	62.	19.5	C	20.6	4.4
23	2	3040.	92.	260.	2508.	92.	260.	2508.	4100.	0.	0.	0.	.61	62.	20.2	C	20.6	4.4
24	2	2190.	0.	0.	2248.	0.	0.	2248.	4200.	0.	0.	0.	.54	65.	17.3	B	19.2	6.1
25	3	2400.	72.	2320.	2320.	72.	2320.	2320.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.79		LOWEST LOS = D	AVG = 61.	21.8		18.7	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 17 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	138. VEH-HRS	160. PASS-HRS	2501. VEH-HRS	2901. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	138. VEH-HRS	160. PASS-HRS	2501. VEH-HRS	2901. PASS-HRS
TOTAL TRAV DISTANCE =	8391. VEH-MI.	9733. PASS-MI.	145651. VEH-MI.	168955. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		58. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	449. GALLONS		7618. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		571. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2052.	0.	2052.	2052.	0.	2052.	3850.	0.	0.	0.	.53	50.	20.5	C	17.4	2.3
2	2	2070.	800.	0.	2852.	800.	0.	2852.	3836.	14.	0.	0.	.74	50.	28.5	D	15.9	2.3
3	3	2300.	1372.	248.	4224.	1372.	248.	4224.	5524.	176.	0.	0.	.76	55.	25.6	C	14.0	2.4
4	3	1020.	0.	0.	3976.	0.	0.	3976.	5700.	0.	0.	0.	.70	62.	21.4	C	19.9	4.8
5	3	710.	272.	0.	4248.	272.	0.	4248.	5700.	0.	0.	0.	.75	62.	22.8	C	16.1	4.4
6	3	3820.	432.	944.	4680.	432.	944.	4680.	6133.	17.	0.	0.	.76	62.	25.3	C	17.3	4.6
7	2	1220.	0.	0.	3736.	0.	0.	3736.	4400.	0.	0.	0.	.85	60.	31.2	D	19.1	3.1
8	3	4810.	496.	788.	4232.	496.	788.	4232.	6100.	0.	0.	0.	.69	62.	22.8	C	20.6	4.4
9	2	1370.	0.	0.	3444.	0.	0.	3444.	4000.	0.	0.	0.	.86	59.	29.0	D	25.0	3.0
10	2	660.	228.	0.	3672.	228.	0.	3672.	4384.	16.	0.	0.	.84	60.	30.5	D	24.7	3.3
11	3	790.	612.	676.	4284.	612.	676.	4284.	5564.	536.	0.	0.	.77	62.	23.0	C	30.0	4.4
12	2	1460.	0.	0.	3608.	0.	0.	3608.	4100.	0.	0.	0.	.88	59.	30.7	D	22.0	2.9
13	3	1400.	432.	0.	4040.	432.	0.	4040.	6024.	76.	0.	0.	.67	62.	21.7	C	13.6	4.4
14	3	2600.	0.	720.	4040.	0.	720.	4040.	6024.	76.	0.	0.	.67	62.	21.7	C	20.6	4.4
15	2	2010.	0.	0.	3320.	0.	0.	3320.	3900.	0.	0.	0.	.85	60.	27.8	D	15.4	3.1
16	3	6120.	384.	632.	3704.	384.	632.	3704.	6100.	0.	0.	0.	.61	62.	19.9	C	18.2	4.4
17	2	1240.	0.	0.	3072.	0.	0.	3072.	4300.	0.	0.	0.	.71	62.	24.8	C	18.2	4.4
18	2	930.	308.	0.	3380.	308.	0.	3380.	4100.	0.	0.	0.	.82	60.	27.9	D	21.4	3.5
19	2	5330.	116.	464.	3496.	116.	464.	3496.	3950.	0.	0.	0.	.89	58.	29.9	D	22.1	2.8
20	2	2830.	0.	0.	3032.	0.	0.	3032.	3800.	0.	0.	0.	.80	61.	24.9	C	21.1	3.8
21	2	1660.	332.	404.	3364.	332.	404.	3364.	4300.	0.	0.	0.	.78	60.	27.8	D	21.4	3.5
22	2	2270.	0.	0.	2960.	0.	0.	2960.	4400.	0.	0.	0.	.67	62.	23.9	C	20.6	4.4
23	2	3040.	72.	288.	3032.	72.	288.	3032.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
24	2	2190.	0.	0.	2744.	0.	0.	2744.	4200.	0.	0.	0.	.65	65.	21.1	C	19.2	6.1
25	3	2400.	92.	2836.	2836.	92.	2836.	2836.	6150.	0.	0.	0.	.46	65.	14.5	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.89 LOWEST LOS = D AVG = 60. 24.5 19.0 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	154. VEH-HRS	178. PASS-HRS	2655. VEH-HRS	3079. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	178. PASS-HRS	2655. VEH-HRS	3080. PASS-HRS
TOTAL TRAV DISTANCE =	9295. VEH-MI.	10782. PASS-MI.	154946. VEH-MI.	179737. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	24. VPMPL		24. VPMPL	
TOTAL FUEL =	490. GALLONS		8108. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		608. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2016.	0.	2016.	2016.	0.	2016.	3850.	0.	0.	0.	.52	50.	20.2	C	17.4	2.3
2	2	2070.	772.	0.	2788.	772.	0.	2788.	3837.	13.	0.	0.	.73	50.	27.9	D	15.9	2.3
3	3	2300.	1336.	248.	4124.	1336.	248.	4124.	5525.	175.	0.	0.	.75	55.	25.0	C	14.0	2.4
4	3	1020.	0.	0.	3876.	0.	0.	3876.	5700.	0.	0.	0.	.68	62.	20.8	C	19.9	4.8
5	3	710.	272.	0.	4148.	272.	0.	4148.	5700.	0.	0.	0.	.73	62.	22.3	C	16.1	4.4
6	3	3820.	324.	936.	4472.	324.	936.	4472.	6150.	0.	0.	0.	.73	62.	24.0	C	17.1	4.8
7	2	1220.	0.	0.	3536.	0.	0.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	18.6	3.7
8	3	4810.	524.	756.	4060.	524.	756.	4060.	6100.	0.	0.	0.	.67	62.	21.8	C	20.6	4.4
9	2	1370.	0.	0.	3304.	0.	0.	3304.	4000.	0.	0.	0.	.83	60.	27.3	D	24.5	3.4
10	2	660.	256.	0.	3560.	256.	0.	3560.	4384.	16.	0.	0.	.81	61.	29.3	D	24.3	3.6
11	3	790.	648.	580.	4208.	648.	580.	4208.	5588.	512.	0.	0.	.75	62.	22.6	C	30.0	4.4
12	2	1460.	0.	0.	3628.	0.	0.	3628.	4100.	0.	0.	0.	.88	58.	31.0	D	22.1	2.8
13	3	1400.	412.	0.	4040.	412.	0.	4040.	6016.	84.	0.	0.	.67	62.	21.7	C	13.6	4.4
14	3	2600.	0.	820.	4040.	0.	820.	4040.	6016.	84.	0.	0.	.67	62.	21.7	C	20.6	4.4
15	2	2010.	0.	0.	3220.	0.	0.	3220.	3900.	0.	0.	0.	.83	60.	26.6	D	15.2	3.4
16	3	6120.	332.	636.	3552.	332.	636.	3552.	6100.	0.	0.	0.	.58	62.	19.1	C	18.2	4.4
17	2	1240.	0.	0.	2916.	0.	0.	2916.	4300.	0.	0.	0.	.68	62.	23.5	C	18.2	4.4
18	2	930.	304.	0.	3220.	304.	0.	3220.	4100.	0.	0.	0.	.79	61.	26.3	D	21.0	3.9
19	2	5330.	96.	552.	3316.	96.	552.	3316.	3950.	0.	0.	0.	.84	60.	27.6	D	21.6	3.2
20	2	2830.	0.	0.	2764.	0.	0.	2764.	3800.	0.	0.	0.	.73	61.	22.7	C	21.1	3.8
21	2	1660.	340.	452.	3104.	340.	452.	3104.	4300.	0.	0.	0.	.72	61.	25.4	C	21.1	3.8
22	2	2270.	0.	0.	2652.	0.	0.	2652.	4400.	0.	0.	0.	.60	62.	21.4	C	20.6	4.4
23	2	3040.	80.	272.	2732.	80.	272.	2732.	4100.	0.	0.	0.	.67	62.	22.0	C	20.6	4.4
24	2	2190.	0.	0.	2460.	0.	0.	2460.	4200.	0.	0.	0.	.59	65.	18.9	C	19.2	6.1
25	3	2400.	116.	2576.	2576.	116.	2576.	2576.	6150.	0.	0.	0.	.42	65.	13.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.88		LOWEST LOS = D	AVG = 61.	23.2		18.8	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	146. VEH-HRS	169. PASS-HRS	2801. VEH-HRS	3249. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	146. VEH-HRS	169. PASS-HRS	2801. VEH-HRS	3249. PASS-HRS
TOTAL TRAV DISTANCE =	8859. VEH-MI.	10277. PASS-MI.	163805. VEH-MI.	190014. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		58. MPH.	
AVERAGE DENSITY =	23. VPMPL		24. VPMPL	
TOTAL FUEL =	470. GALLONS		8578. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		645. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2332.	0.	2332.	2332.	0.	2332.	3850.	0.	0.	0.	.61	50.	23.3	C	17.4	2.3
2	2	2070.	912.	0.	3244.	912.	0.	3244.	3824.	26.	0.	0.	.85	50.	32.4	D	15.9	2.3
3	3	2300.	1580.	380.	4824.	1580.	380.	4824.	5414.	286.	0.	0.	.89	55.	29.2	D	14.0	2.4
4	3	1020.	0.	0.	4444.	0.	0.	4444.	5700.	0.	0.	0.	.78	62.	23.9	C	19.9	4.8
5	3	710.	240.	0.	4684.	240.	0.	4684.	5700.	0.	0.	0.	.82	61.	25.8	C	16.7	3.5
6	3	3820.	440.	956.	5124.	440.	956.	5124.	6114.	36.	0.	0.	.84	60.	28.4	D	17.9	3.7
7	2	1220.	0.	0.	4168.	0.	0.	4168.	4400.	0.	0.	0.	.95	55.	37.7	E	20.4	2.1
8	3	4810.	596.	860.	4764.	596.	860.	4764.	6100.	0.	0.	0.	.78	61.	25.9	C	20.9	4.0
9	2	1370.	0.	0.	3904.	0.	0.	3904.	4000.	0.	0.	0.	.98	53.	36.6	E	27.7	2.0
10	2	660.	308.	0.	4212.	308.	0.	4212.	4378.	22.	0.	0.	.96	54.	38.7	E	27.3	2.0
11	3	790.	676.	756.	4888.	676.	756.	4856.	5502.	598.	* 397.	32.	.88	44.	36.7	F	33.0	2.9
12	2	1460.	0.	0.	4132.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	444.	0.	4576.	444.	0.	4544.	5988.	112.	0.	0.	.76	62.	24.4	C	13.6	4.4
14	3	2600.	0.	1156.	4576.	0.	1148.	4544.	5988.	112.	0.	0.	.76	62.	24.4	C	20.6	4.4
15	2	2010.	0.	0.	3420.	0.	0.	3396.	3900.	0.	0.	0.	.87	59.	28.8	D	15.5	3.0
16	3	6120.	496.	760.	3916.	496.	755.	3892.	6100.	0.	0.	0.	.64	62.	20.9	C	18.2	4.4
17	2	1240.	0.	0.	3156.	0.	0.	3137.	4300.	0.	0.	0.	.73	62.	25.4	C	18.2	4.3
18	2	930.	444.	0.	3600.	444.	0.	3581.	4100.	0.	0.	0.	.87	59.	30.4	D	21.9	2.9
19	2	5330.	80.	520.	3680.	80.	517.	3661.	3950.	0.	0.	0.	.93	56.	32.4	D	22.7	2.3
20	2	2830.	0.	0.	3160.	0.	0.	3143.	3800.	0.	0.	0.	.83	60.	26.3	D	21.7	3.1
21	2	1660.	276.	408.	3436.	276.	406.	3419.	4300.	0.	0.	0.	.80	60.	28.3	D	21.5	3.4
22	2	2270.	0.	0.	3028.	0.	0.	3013.	4400.	0.	0.	0.	.68	62.	24.3	C	20.6	4.4
23	2	3040.	108.	268.	3136.	108.	267.	3121.	4100.	0.	0.	0.	.76	62.	25.3	C	20.8	4.1
24	2	2190.	0.	0.	2868.	0.	0.	2855.	4200.	0.	0.	0.	.68	65.	22.0	C	19.2	6.1
25	3	2400.	60.	2928.	2928.	60.	2915.	2915.	6150.	0.	0.	0.	.47	65.	14.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 59.	27.1		19.3	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	171. VEH-HRS	198. PASS-HRS	2971. VEH-HRS	3446. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	171. VEH-HRS	198. PASS-HRS	2971. VEH-HRS	3447. PASS-HRS
TOTAL TRAV DISTANCE =	10042. VEH-MI.	11648. PASS-MI.	173847. VEH-MI.	201662. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	27. VPMPL		24. VPMPL	
TOTAL FUEL =	521. GALLONS		9099. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		681. KILOGRAMS	

QUEUE CLEAR SECTION 11 FT= 0

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2268.	0.	2268.	2268.	0.	2268.	3850.	0.	0.	0.	.59	50.	22.7	C	17.4	2.3
2	2	2070.	540.	0.	2808.	540.	0.	2808.	3839.	11.	0.	0.	.73	50.	28.1	D	15.9	2.3
3	3	2300.	1452.	240.	4260.	1452.	240.	4260.	5527.	173.	0.	0.	.77	55.	25.8	C	14.0	2.4
4	3	1020.	0.	0.	4020.	0.	0.	4020.	5700.	0.	0.	0.	.71	62.	21.6	C	19.9	4.8
5	3	710.	244.	0.	4264.	244.	0.	4264.	5700.	0.	0.	0.	.75	62.	22.9	C	16.1	4.4
6	3	3820.	376.	868.	4640.	376.	868.	4640.	6150.	0.	0.	0.	.75	62.	25.1	C	17.3	4.6
7	2	1220.	0.	0.	3772.	0.	0.	3772.	4400.	0.	0.	0.	.86	60.	31.7	D	19.2	3.1
8	3	4810.	520.	688.	4292.	520.	688.	4292.	6100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
9	2	1370.	0.	0.	3604.	0.	0.	3604.	4000.	0.	0.	0.	.90	58.	31.2	D	25.8	2.7
10	2	660.	312.	0.	3916.	312.	0.	3916.	4376.	24.	0.	0.	.89	58.	33.7	D	25.6	2.7
11	3	790.	692.	772.	4608.	692.	772.	4647.	5496.	604.	0.	-39.	.85	43.	36.2	E	30.2	4.2
12	2	1460.	0.	0.	3836.	0.	0.	3875.	4100.	0.	0.	0.	.95	55.	35.0	D	23.0	2.1
13	3	1400.	476.	0.	4312.	476.	0.	4351.	6012.	88.	0.	0.	.72	62.	23.4	C	13.6	4.4
14	3	2600.	0.	812.	4312.	0.	819.	4351.	6012.	88.	0.	0.	.72	62.	23.4	C	20.6	4.4
15	2	2010.	0.	0.	3500.	0.	0.	3532.	3900.	0.	0.	0.	.91	58.	30.7	D	15.8	2.6
16	3	6120.	476.	728.	3976.	476.	734.	4008.	6100.	0.	0.	0.	.66	62.	21.5	C	18.2	4.4
17	2	1240.	0.	0.	3248.	0.	0.	3274.	4300.	0.	0.	0.	.76	62.	26.6	D	18.3	4.1
18	2	930.	460.	0.	3708.	460.	0.	3734.	4100.	0.	0.	0.	.91	57.	32.6	D	22.4	2.5
19	2	5330.	108.	560.	3816.	108.	564.	3842.	3950.	0.	0.	0.	.97	54.	35.8	E	23.5	2.0
20	2	2830.	0.	0.	3256.	0.	0.	3278.	3800.	0.	0.	0.	.86	59.	27.9	D	22.0	2.9
21	2	1660.	344.	476.	3600.	344.	479.	3622.	4285.	15.	0.	0.	.85	59.	30.6	D	21.8	3.0
22	2	2270.	0.	0.	3124.	0.	0.	3143.	4400.	0.	0.	0.	.71	62.	25.4	C	20.6	4.3
23	2	3040.	100.	356.	3224.	100.	358.	3243.	4100.	0.	0.	0.	.79	61.	26.5	D	21.0	3.9
24	2	2190.	0.	0.	2868.	0.	0.	2885.	4200.	0.	0.	0.	.69	65.	22.2	C	19.2	6.1
25	3	2400.	76.	2944.	2944.	76.	2961.	2961.	6150.	0.	0.	0.	.48	65.	15.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.97 LOWEST LOS = E AVG = 59. 26.5 19.2 3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	166. VEH-HRS	192. PASS-HRS	3137. VEH-HRS	3639. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	166. VEH-HRS	192. PASS-HRS	3137. VEH-HRS	3639. PASS-HRS
TOTAL TRAV DISTANCE =	9774. VEH-MI.	11338. PASS-MI.	183621. VEH-MI.	213000. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	27. VPMPL		24. VPMPL	
TOTAL FUEL =	508. GALLONS		9607. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		717. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1940.	0.	1940.	1940.	0.	1940.	3850.	0.	0.	0.	.50	50.	19.4	C	17.4	2.3
2	2	2070.	704.	0.	2644.	704.	0.	2644.	3838.	12.	0.	0.	.69	50.	26.4	D	15.9	2.3
3	3	2300.	1416.	296.	4060.	1416.	296.	4060.	5494.	206.	0.	0.	.74	55.	24.6	C	14.0	2.4
4	3	1020.	0.	0.	3764.	0.	0.	3764.	5700.	0.	0.	0.	.66	62.	20.2	C	19.9	4.8
5	3	710.	292.	0.	4056.	292.	0.	4056.	5700.	0.	0.	0.	.71	62.	21.8	C	16.1	4.4
6	3	3820.	432.	956.	4488.	432.	956.	4488.	6133.	17.	0.	0.	.73	62.	24.1	C	17.1	4.8
7	2	1220.	0.	0.	3532.	0.	0.	3532.	4400.	0.	0.	0.	.80	61.	29.0	D	18.6	3.7
8	3	4810.	672.	800.	4204.	672.	800.	4204.	6100.	0.	0.	0.	.69	62.	22.6	C	20.6	4.4
9	2	1370.	0.	0.	3404.	0.	0.	3404.	4000.	0.	0.	0.	.85	60.	28.5	D	24.9	3.1
10	2	660.	444.	0.	3848.	444.	0.	3848.	4365.	35.	0.	0.	.88	59.	32.8	D	25.4	2.9
11	3	790.	700.	776.	4548.	700.	776.	4548.	5479.	621.	0.	0.	.83	62.	24.5	C	30.0	4.4
12	2	1460.	0.	0.	3772.	0.	0.	3772.	4100.	0.	0.	0.	.92	57.	33.2	D	22.6	2.4
13	3	1400.	340.	0.	4112.	340.	0.	4112.	6056.	44.	0.	0.	.68	62.	22.1	C	13.6	4.4
14	3	2600.	0.	536.	4112.	0.	536.	4112.	6056.	44.	0.	0.	.68	62.	22.1	C	20.6	4.4
15	2	2010.	0.	0.	3576.	0.	0.	3576.	3900.	0.	0.	0.	.92	57.	31.4	D	16.0	2.5
16	3	6120.	448.	704.	4024.	448.	704.	4024.	6100.	0.	0.	0.	.66	62.	21.6	C	18.2	4.4
17	2	1240.	0.	0.	3320.	0.	0.	3320.	4300.	0.	0.	0.	.77	61.	27.0	D	18.4	4.0
18	2	930.	324.	0.	3644.	324.	0.	3644.	4100.	0.	0.	0.	.89	58.	31.2	D	22.1	2.8
19	2	5330.	156.	668.	3800.	156.	668.	3800.	3950.	0.	0.	0.	.96	54.	35.0	D	23.3	2.0
20	2	2830.	0.	0.	3132.	0.	0.	3132.	3800.	0.	0.	0.	.82	61.	25.7	C	21.1	3.8
21	2	1660.	312.	404.	3444.	312.	404.	3444.	4300.	0.	0.	0.	.80	60.	28.6	D	21.5	3.3
22	2	2270.	0.	0.	3040.	0.	0.	3040.	4400.	0.	0.	0.	.69	62.	24.5	C	20.6	4.4
23	2	3040.	88.	416.	3128.	88.	416.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
24	2	2190.	0.	0.	2712.	0.	0.	2712.	4200.	0.	0.	0.	.65	65.	20.9	C	19.2	6.1
25	3	2400.	108.	2820.	2820.	108.	2820.	2820.	6150.	0.	0.	0.	.46	65.	14.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.96		LOWEST LOS = D	AVG = 60.	25.4		19.1	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	158. VEH-HRS	184. PASS-HRS	3295. VEH-HRS	3822. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	158. VEH-HRS	184. PASS-HRS	3295. VEH-HRS	3822. PASS-HRS
TOTAL TRAV DISTANCE =	9479. VEH-MI.	10996. PASS-MI.	193100. VEH-MI.	223996. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		59. MPH.	
AVERAGE DENSITY =	25. VPMPL		24. VPMPL	
TOTAL FUEL =	495. GALLONS		10102. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		754. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2116.	0.	2116.	2116.	0.	2116.	3850.	0.	0.	0.	.55	50.	21.2	C	17.4	2.3
2	2	2070.	712.	0.	2828.	712.	0.	2828.	3835.	15.	0.	0.	.74	50.	28.3	D	15.9	2.3
3	3	2300.	1564.	316.	4392.	1564.	316.	4392.	5478.	222.	0.	0.	.80	55.	26.6	D	14.0	2.4
4	3	1020.	0.	0.	4076.	0.	0.	4076.	5700.	0.	0.	0.	.72	62.	21.9	C	19.9	4.8
5	3	710.	208.	0.	4284.	208.	0.	4284.	5700.	0.	0.	0.	.75	62.	23.0	C	16.1	4.4
6	3	3820.	388.	968.	4672.	388.	968.	4672.	6135.	15.	0.	0.	.76	62.	25.3	C	17.3	4.6
7	2	1220.	0.	0.	3704.	0.	0.	3704.	4400.	0.	0.	0.	.84	60.	30.9	D	19.1	3.2
8	3	4810.	668.	836.	4372.	668.	836.	4372.	6100.	0.	0.	0.	.72	62.	23.5	C	20.6	4.4
9	2	1370.	0.	0.	3536.	0.	0.	3536.	4000.	0.	0.	0.	.88	59.	30.2	D	25.4	2.8
10	2	660.	292.	0.	3828.	292.	0.	3828.	4378.	22.	0.	0.	.87	59.	32.5	D	25.3	2.9
11	3	790.	736.	744.	4564.	736.	744.	4564.	5458.	642.	0.	0.	.84	62.	24.5	C	30.0	4.4
12	2	1460.	0.	0.	3820.	0.	0.	3820.	4100.	0.	0.	0.	.93	56.	34.0	D	22.8	2.3
13	3	1400.	456.	0.	4276.	456.	0.	4276.	6032.	68.	0.	0.	.71	62.	23.0	C	13.6	4.4
14	3	2600.	0.	636.	4276.	0.	636.	4276.	6032.	68.	0.	0.	.71	62.	23.0	C	20.6	4.4
15	2	2010.	0.	0.	3640.	0.	0.	3640.	3900.	0.	0.	0.	.93	56.	32.4	D	16.2	2.3
16	3	6120.	476.	980.	4116.	476.	980.	4116.	6100.	0.	0.	0.	.67	62.	22.1	C	18.2	4.4
17	2	1240.	0.	0.	3136.	0.	0.	3136.	4300.	0.	0.	0.	.73	62.	25.4	C	18.2	4.3
18	2	930.	320.	0.	3456.	320.	0.	3456.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
19	2	5330.	132.	544.	3588.	132.	544.	3588.	3950.	0.	0.	0.	.91	57.	31.2	D	22.4	2.6
20	2	2830.	0.	0.	3044.	0.	0.	3044.	3800.	0.	0.	0.	.80	61.	25.0	C	21.1	3.8
21	2	1660.	368.	492.	3412.	368.	492.	3412.	4268.	32.	0.	0.	.80	60.	28.3	D	21.5	3.3
22	2	2270.	0.	0.	2920.	0.	0.	2920.	4400.	0.	0.	0.	.66	62.	23.5	C	20.6	4.4
23	2	3040.	96.	408.	3016.	96.	408.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	20.6	4.4
24	2	2190.	0.	0.	2608.	0.	0.	2608.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	76.	2684.	2684.	76.	2684.	2684.	6150.	0.	0.	0.	.44	65.	13.8	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.93 LOWEST LOS = D AVG = 60. 25.3 19.0 3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	159. VEH-HRS	185. PASS-HRS	3454. VEH-HRS	4007. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	159. VEH-HRS	185. PASS-HRS	3455. VEH-HRS	4007. PASS-HRS
TOTAL TRAV DISTANCE =	9575. VEH-MI.	11107. PASS-MI.	202675. VEH-MI.	235103. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		59. MPH.	
AVERAGE DENSITY =	25. VPMPL		24. VPMPL	
TOTAL FUEL =	503. GALLONS		10605. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		791. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2184.	0.	2184.	2184.	0.	2184.	3850.	0.	0.	0.	.57	50.	21.8	C	17.4	2.3
2	2	2070.	752.	0.	2936.	752.	0.	2936.	3832.	18.	0.	0.	.77	50.	29.4	D	15.9	2.3
3	3	2300.	1692.	364.	4628.	1692.	364.	4628.	5446.	254.	0.	0.	.85	55.	28.0	D	14.0	2.4
4	3	1020.	0.	0.	4264.	0.	0.	4264.	5700.	0.	0.	0.	.75	62.	22.9	C	19.9	4.8
5	3	710.	244.	0.	4508.	244.	0.	4508.	5700.	0.	0.	0.	.79	62.	24.2	C	16.1	4.4
6	3	3820.	436.	1028.	4944.	436.	1028.	4944.	6098.	52.	0.	0.	.81	61.	27.1	D	17.6	4.1
7	2	1220.	0.	0.	3916.	0.	0.	3916.	4400.	0.	0.	0.	.89	58.	33.6	D	19.5	2.8
8	3	4810.	616.	908.	4532.	616.	908.	4532.	6100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
9	2	1370.	0.	0.	3624.	0.	0.	3624.	4000.	0.	0.	0.	.91	58.	31.5	D	25.9	2.6
10	2	660.	276.	0.	3900.	276.	0.	3900.	4376.	24.	0.	0.	.89	58.	33.5	D	25.6	2.8
11	3	790.	772.	856.	4672.	772.	856.	4672.	5440.	660.	0.	0.	.86	59.	26.2	D	32.0	3.1
12	2	1460.	0.	0.	3816.	0.	0.	3816.	4100.	0.	0.	0.	.93	56.	33.9	D	22.7	2.3
13	3	1400.	484.	0.	4300.	484.	0.	4300.	6012.	88.	0.	0.	.72	62.	23.1	C	13.6	4.4
14	3	2600.	0.	772.	4300.	0.	772.	4300.	6012.	88.	0.	0.	.72	62.	23.1	C	20.6	4.4
15	2	2010.	0.	0.	3528.	0.	0.	3528.	3900.	0.	0.	0.	.90	58.	30.6	D	15.8	2.6
16	3	6120.	328.	724.	3856.	328.	724.	3856.	6100.	0.	0.	0.	.63	62.	20.7	C	18.2	4.4
17	2	1240.	0.	0.	3132.	0.	0.	3132.	4300.	0.	0.	0.	.73	62.	25.3	C	18.2	4.3
18	2	930.	272.	0.	3404.	272.	0.	3404.	4100.	0.	0.	0.	.83	60.	28.2	D	21.4	3.4
19	2	5330.	140.	576.	3544.	140.	576.	3544.	3950.	0.	0.	0.	.90	58.	30.6	D	22.2	2.7
20	2	2830.	0.	0.	2968.	0.	0.	2968.	3800.	0.	0.	0.	.78	61.	24.3	C	21.1	3.8
21	2	1660.	340.	456.	3308.	340.	456.	3308.	4300.	0.	0.	0.	.77	61.	27.3	D	21.3	3.6
22	2	2270.	0.	0.	2852.	0.	0.	2852.	4400.	0.	0.	0.	.65	62.	23.0	C	20.6	4.4
23	2	3040.	96.	364.	2948.	96.	364.	2948.	4100.	0.	0.	0.	.72	62.	23.8	C	20.6	4.4
24	2	2190.	0.	0.	2584.	0.	0.	2584.	4200.	0.	0.	0.	.62	65.	19.9	C	19.2	6.1
25	3	2400.	124.	2708.	2708.	124.	2708.	2708.	6150.	0.	0.	0.	.44	65.	13.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.93		LOWEST LOS = D	AVG = 60.	25.4		19.1	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	160. VEH-HRS	186. PASS-HRS	3614. VEH-HRS	4193. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	160. VEH-HRS	186. PASS-HRS	3615. VEH-HRS	4193. PASS-HRS
TOTAL TRAV DISTANCE =	9609. VEH-MI.	11146. PASS-MI.	212284. VEH-MI.	246250. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		59. MPH.	
AVERAGE DENSITY =	25. VPMPL		24. VPMPL	
TOTAL FUEL =	504. GALLONS		11109. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		828. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	74.	86.	0.	0.	74.	86.	4535.	5261.	61.5	240.	1.	15.	4.	14:00
2	92.	106.	0.	0.	92.	106.	5625.	6525.	61.4	299.	1.	19.	5.	14:15
3	135.	156.	0.	0.	135.	156.	8168.	9475.	60.7	427.	1.	25.	7.	14:30
4	166.	192.	0.	0.	166.	192.	9682.	11231.	58.4	494.	1.	25.	8.	14:45
5	134.	155.	0.	0.	134.	155.	8100.	9396.	60.5	422.	1.	25.	7.	15:00
6	161.	187.	0.	0.	161.	187.	9215.	10689.	57.3	475.	1.	25.	8.	15:15
7	183.	212.	0.	0.	183.	212.	10164.	11790.	55.7	514.	1.	25.	8.	15:30
8	201.	233.	0.	0.	201.	233.	10157.	11782.	50.5	522.	2.	27.	8.	15:45
9	201.	233.	0.	0.	201.	233.	10631.	12332.	53.0	544.	1.	26.	8.	16:00
10	147.	171.	0.	0.	147.	171.	8488.	9846.	57.6	450.	1.	27.	7.	16:15
11	161.	187.	0.	0.	161.	187.	9690.	11240.	60.1	507.	1.	28.	8.	16:30
12	134.	155.	0.	0.	134.	155.	8176.	9484.	61.1	436.	1.	26.	7.	16:45
13	158.	184.	0.	0.	158.	184.	9352.	10848.	59.0	492.	1.	27.	8.	17:00
14	144.	167.	0.	0.	144.	167.	8534.	9900.	59.4	455.	1.	27.	8.	17:15
15	134.	155.	0.	0.	134.	155.	8183.	9492.	61.1	436.	1.	26.	7.	17:30
16	140.	163.	0.	0.	140.	163.	8561.	9930.	61.0	455.	1.	27.	8.	17:45
17	138.	160.	0.	0.	138.	160.	8391.	9733.	61.0	449.	1.	27.	7.	18:00
18	154.	178.	0.	0.	154.	178.	9295.	10782.	60.5	490.	1.	28.	8.	18:15
19	146.	169.	0.	0.	146.	169.	8859.	10277.	60.8	470.	1.	27.	8.	18:30
20	171.	198.	0.	0.	171.	198.	10042.	11648.	58.9	521.	1.	27.	8.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	166.	192.	0.	0.	166.	192.	9774.	11338.	59.0	508.	1.	27.	8.	19:00
22	158.	184.	0.	0.	158.	184.	9479.	10996.	59.9	495.	1.	27.	8.	19:15
23	159.	185.	0.	0.	159.	185.	9575.	11107.	60.1	503.	1.	28.	8.	19:30
24	160.	186.	0.	0.	160.	186.	9609.	11146.	60.0	504.	1.	27.	8.	19:45
TOTAL	3614.	4193.	0.	0.	3615.	4193.	212284.	246250.	58.7	11109.	30.	616.	181.	

Existing (2019) plus Final Build
(Aux Lanes and BOS)
Southbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

QUEUE COLLISION IN SECTION 18 T2 =0.029

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2268.	0.	2268.	2268.	0.	2268.	3850.	0.	0.	0.	.59	50.	22.7	C	17.4	2.3
2	2	2070.	624.	0.	2892.	624.	0.	2892.	3835.	15.	0.	0.	.75	50.	28.9	D	15.9	2.3
3	3	2300.	1684.	328.	4576.	1684.	328.	4576.	5875.	225.	0.	0.	.78	55.	27.7	D	14.0	2.4
4	3	1020.	0.	0.	4248.	0.	0.	4248.	6100.	0.	0.	0.	.70	62.	22.8	C	19.9	4.8
5	3	710.	256.	0.	4504.	256.	0.	4504.	6100.	0.	0.	0.	.74	62.	24.2	C	16.1	4.4
6	3	3820.	452.	1064.	4956.	452.	1064.	4956.	6079.	71.	0.	0.	.82	61.	27.2	D	17.6	4.0
7	2	1220.	0.	0.	3892.	0.	0.	3892.	4400.	0.	0.	0.	.88	59.	33.3	D	19.5	2.8
8	3	4810.	592.	792.	4484.	592.	792.	4484.	6100.	0.	0.	0.	.74	62.	24.1	C	20.6	4.4
9	2	1370.	0.	0.	3692.	0.	0.	3692.	4000.	0.	0.	0.	.92	57.	32.6	D	26.3	2.4
10	2	660.	380.	0.	4072.	380.	0.	4072.	4367.	33.	0.	0.	.93	56.	36.2	E	26.5	2.3
11	3	790.	840.	924.	4912.	840.	924.	4912.	5377.	723.	0.	0.	.91	57.	28.6	D	33.7	2.5
12	2	1460.	0.	0.	3988.	0.	0.	3988.	4100.	0.	0.	0.	.97	54.	37.2	E	23.5	2.0
13	3	1400.	580.	0.	4568.	580.	0.	4568.	6012.	88.	0.	0.	.76	62.	24.6	C	13.6	4.4
14	3	2600.	0.	696.	4568.	0.	696.	4568.	6012.	88.	0.	0.	.76	62.	24.6	C	20.6	4.4
15	2	2010.	0.	0.	3872.	0.	0.	3872.	3900.	0.	0.	0.	.99	52.	37.1	E	16.9	2.0
16	3	6120.	512.	756.	4384.	512.	756.	3990.	6100.	0.	* 1224.	394.	.65	51.	26.2	F	17.7	4.4
17	2	1240.	0.	0.	3628.	0.	0.	3234.	4300.	0.	** 1240.	394.	.75	21.	78.7	F	15.4	4.5
18	2	930.	584.	0.	4212.	584.	0.	3818.	4100.	0.	** 930.	282.	.93	31.	61.2	F	21.8	2.8
19	2	5330.	132.	648.	4344.	132.	589.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3696.	0.	0.	3361.	3800.	0.	0.	0.	.88	58.	29.0	D	22.2	2.7
21	2	1660.	464.	568.	4160.	464.	522.	3825.	4120.	180.	0.	0.	.93	56.	34.2	D	22.8	2.2
22	2	2270.	0.	0.	3592.	0.	0.	3302.	4400.	0.	0.	0.	.75	62.	26.8	D	20.7	4.2
23	2	3040.	160.	384.	3752.	160.	354.	3462.	4100.	0.	0.	0.	.84	60.	28.9	D	21.6	3.2
24	2	2190.	0.	0.	3368.	0.	0.	3108.	4200.	0.	0.	0.	.74	64.	24.2	C	19.5	5.7
25	3	2400.	132.	3500.	3500.	132.	3240.	3240.	6150.	0.	0.	0.	.53	65.	16.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 54.	29.5		19.2	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	202. VEH-HRS	238. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	202. VEH-HRS	238. PASS-HRS
TOTAL TRAV DISTANCE =	10937. VEH-MI.	12905. PASS-MI.	10937. VEH-MI.	12905. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		54. MPH.	
AVERAGE DENSITY =	29. VPMPL		29. VPMPL	
TOTAL FUEL =	570. GALLONS		570. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		38. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2988.	0.	2988.	2988.	0.	2988.	3850.	0.	0.	0.	.78	50.	29.9	D	17.4	2.3
2	2	2070.	564.	0.	3552.	564.	0.	3552.	3832.	18.	0.	0.	.93	50.	35.5	E	15.9	2.3
3	3	2300.	1520.	372.	5072.	1520.	372.	5072.	5820.	280.	0.	0.	.87	55.	30.7	D	14.0	2.4
4	3	1020.	0.	0.	4700.	0.	0.	4700.	6100.	0.	0.	0.	.77	61.	25.5	C	20.2	4.5
5	3	710.	192.	0.	4892.	192.	0.	4892.	6100.	0.	0.	0.	.80	61.	26.7	D	16.5	3.8
6	3	3820.	360.	1248.	5252.	360.	1248.	5252.	6053.	97.	0.	0.	.87	59.	29.6	D	18.1	3.4
7	2	1220.	0.	0.	4004.	0.	0.	4004.	4400.	0.	0.	0.	.91	57.	34.9	D	19.8	2.6
8	3	4810.	640.	800.	4644.	640.	800.	4460.	6100.	0.	* 389.	184.	.73	59.	25.1	F	20.7	4.1
9	2	1370.	0.	0.	3844.	0.	0.	3660.	4000.	0.	** 1370.	184.	.92	38.	48.4	F	27.6	2.5
10	2	660.	380.	0.	4224.	380.	0.	4040.	4369.	31.	** 660.	184.	.92	34.	59.8	F	28.1	2.7
11	3	790.	996.	936.	5220.	996.	936.	5036.	5307.	793.	** 790.	184.	.95	34.	49.7	F	36.9	2.6
12	2	1460.	0.	0.	4284.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	532.	0.	4816.	532.	0.	4632.	6024.	76.	0.	0.	.77	61.	25.1	C	13.7	4.1
14	3	2600.	0.	688.	4816.	0.	662.	4562.	6024.	76.	* 476.	70.	.76	50.	30.6	F	20.4	4.1
15	2	2010.	0.	0.	4128.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	536.	776.	4664.	536.	738.	3980.	6100.	0.	* 3592.	456.	.65	25.	53.5	F	15.6	4.9
17	2	1240.	0.	0.	3888.	0.	0.	3242.	4300.	0.	** 1240.	456.	.75	17.	97.0	F	14.4	4.9
18	2	930.	552.	0.	4440.	552.	0.	3794.	4100.	0.	** 930.	306.	.93	30.	63.7	F	21.5	2.9
19	2	5330.	156.	696.	4596.	156.	598.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3900.	0.	0.	3352.	3800.	0.	0.	0.	.88	58.	28.9	D	22.2	2.7
21	2	1660.	512.	648.	4412.	512.	568.	3864.	4017.	283.	0.	0.	.96	54.	35.7	E	23.4	2.0
22	2	2270.	0.	0.	3764.	0.	0.	3296.	4400.	0.	0.	0.	.75	62.	26.7	D	20.7	4.2
23	2	3040.	112.	464.	3876.	112.	408.	3408.	4100.	0.	0.	0.	.83	60.	28.3	D	21.5	3.4
24	2	2190.	0.	0.	3412.	0.	0.	3001.	4200.	0.	0.	0.	.71	65.	23.2	C	19.3	5.9
25	3	2400.	104.	3516.	3516.	104.	3105.	3105.	6150.	0.	0.	0.	.50	65.	15.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 46.	35.3		18.9	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	248. VEH-HRS	292. PASS-HRS	450. VEH-HRS	531. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	248. VEH-HRS	292. PASS-HRS	450. VEH-HRS	531. PASS-HRS
TOTAL TRAV DISTANCE =	11362. VEH-MI.	13407. PASS-MI.	22299. VEH-MI.	26312. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		50. MPH.	
AVERAGE DENSITY =	35. VPMPL		32. VPMPL	
TOTAL FUEL =	601. GALLONS		1171. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		77. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2372.	0.	2372.	2372.	0.	2372.	3850.	0.	0.	0.	.62	50.	23.7	C	17.4	2.3
2	2	2070.	536.	0.	2908.	536.	0.	2908.	3834.	16.	0.	0.	.76	50.	29.1	D	15.9	2.3
3	3	2300.	1780.	396.	4688.	1780.	396.	4688.	5839.	261.	0.	0.	.80	55.	28.4	D	14.0	2.4
4	3	1020.	0.	0.	4292.	0.	0.	4292.	6100.	0.	0.	0.	.70	62.	23.1	C	19.9	4.8
5	3	710.	192.	0.	4484.	192.	0.	4484.	6100.	0.	0.	0.	.74	62.	24.1	C	16.1	4.4
6	3	3820.	364.	1048.	4848.	364.	1048.	4848.	6107.	43.	0.	0.	.79	61.	26.4	D	17.5	4.3
7	2	1220.	0.	0.	3800.	0.	0.	3800.	4400.	0.	0.	0.	.86	59.	32.0	D	19.2	3.0
8	3	4810.	580.	784.	4380.	580.	784.	4324.	6100.	0.	* 715.	56.	.71	45.	31.9	F	19.9	4.5
9	2	1370.	0.	0.	3596.	0.	0.	3540.	4000.	0.	** 1370.	56.	.89	26.	68.8	F	26.7	3.3
10	2	660.	476.	0.	4072.	476.	0.	4016.	4360.	40.	** 660.	56.	.92	29.	68.5	F	28.1	3.0
11	3	790.	1024.	940.	5096.	1024.	940.	5040.	5300.	800.	** 790.	56.	.95	33.	51.2	F	36.9	2.7
12	2	1460.	0.	0.	4156.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	612.	0.	4768.	612.	0.	4712.	5996.	104.	0.	0.	.79	61.	25.6	C	13.8	3.9
14	3	2600.	0.	800.	4768.	0.	791.	4691.	5996.	104.	* 634.	21.	.78	41.	38.3	F	20.2	4.1
15	2	2010.	0.	0.	3968.	0.	0.	3362.	3900.	0.	* 1056.	538.	.86	50.	33.5	F	16.9	2.0
16	3	6120.	612.	804.	4580.	612.	792.	3974.	6100.	0.	** 6120.	538.	.65	15.	90.7	F	13.5	5.5
17	2	1240.	0.	0.	3776.	0.	0.	3182.	4300.	0.	** 1240.	538.	.74	16.	99.4	F	14.2	5.0
18	2	930.	580.	0.	4356.	580.	0.	3762.	4100.	0.	** 930.	338.	.92	29.	65.1	F	21.2	3.0
19	2	5330.	188.	660.	4544.	188.	574.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3884.	0.	0.	3376.	3800.	0.	0.	0.	.89	58.	29.2	D	22.3	2.7
21	2	1660.	492.	668.	4376.	492.	591.	3868.	4030.	270.	0.	0.	.96	54.	35.7	E	23.3	2.0
22	2	2270.	0.	0.	3708.	0.	0.	3278.	4400.	0.	0.	0.	.74	62.	26.5	D	20.7	4.2
23	2	3040.	128.	408.	3836.	128.	362.	3406.	4100.	0.	0.	0.	.83	60.	28.2	D	21.5	3.4
24	2	2190.	0.	0.	3428.	0.	0.	3044.	4200.	0.	0.	0.	.72	65.	23.6	C	19.4	5.8
25	3	2400.	96.	3524.	3524.	96.	3140.	3140.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 39.	39.2		18.4	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	281. VEH-HRS	332. PASS-HRS	731. VEH-HRS	863. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	281. VEH-HRS	332. PASS-HRS	731. VEH-HRS	863. PASS-HRS
TOTAL TRAV DISTANCE =	10844. VEH-MI.	12795. PASS-MI.	33142. VEH-MI.	39108. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		45. MPH.	
AVERAGE DENSITY =	39. VPMPL		35. VPMPL	
TOTAL FUEL =	589. GALLONS		1760. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		117. KILOGRAMS	

```
QUEUE COLLISION IN SECTION  15 T2 =0.021
QUEUE COLLISION IN SECTION  12 T2 =0.236
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2984.	0.	2984.	2984.	0.	2984.	3850.	0.	0.	0.	.78	50.	29.8	D	17.4	2.3
2	2	2070.	464.	0.	3448.	464.	0.	3448.	3836.	14.	0.	0.	.90	50.	34.5	D	15.9	2.3
3	3	2300.	1640.	356.	5088.	1640.	356.	5088.	5844.	256.	0.	0.	.87	55.	30.8	D	14.0	2.4
4	3	1020.	0.	0.	4732.	0.	0.	4732.	6100.	0.	0.	0.	.78	61.	25.7	C	20.2	4.5
5	3	710.	188.	0.	4920.	188.	0.	4920.	6100.	0.	0.	0.	.81	61.	26.9	D	16.6	3.7
6	3	3820.	304.	1112.	5224.	304.	1112.	5224.	6102.	48.	0.	0.	.86	60.	29.2	D	18.0	3.5
7	2	1220.	0.	0.	4112.	0.	0.	4112.	4400.	0.	0.	0.	.93	56.	36.7	E	20.1	2.2
8	3	4810.	560.	880.	4672.	560.	880.	4548.	6100.	0.	* 1520.	124.	.75	38.	40.2	F	19.7	4.3
9	2	1370.	0.	0.	3792.	0.	0.	3668.	4000.	0.	** 1370.	124.	.92	29.	63.6	F	27.9	3.0
10	2	660.	360.	0.	4152.	360.	0.	3217.	4369.	31.	** 660.	935.	.74	29.	54.8	F	28.2	3.0
11	3	790.	1052.	980.	5204.	1052.	980.	4269.	5283.	817.	** 790.	935.	.81	34.	42.4	F	36.5	2.6
12	2	1460.	0.	0.	4224.	0.	0.	3289.	4100.	0.	** 1460.	811.	.80	45.	36.9	F	23.3	2.2
13	3	1400.	656.	0.	4880.	656.	0.	3945.	6004.	96.	** 1400.	811.	.66	28.	46.3	F	12.7	4.4
14	3	2600.	0.	720.	4880.	0.	702.	3945.	6004.	96.	** 2600.	811.	.66	16.	83.3	F	15.8	5.3
15	2	2010.	0.	0.	4160.	0.	0.	3243.	3900.	0.	** 2010.	657.	.83	22.	74.5	F	13.3	3.9
16	3	6120.	736.	732.	4896.	736.	693.	3979.	6100.	0.	** 6120.	657.	.65	12.	108.6	F	12.6	5.8
17	2	1240.	0.	0.	4164.	0.	0.	3286.	4300.	0.	** 1240.	657.	.76	17.	95.2	F	14.5	4.8
18	2	930.	512.	0.	4676.	512.	0.	3798.	4100.	0.	** 930.	302.	.93	30.	63.6	F	21.5	2.9
19	2	5330.	152.	648.	4828.	152.	530.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	4180.	0.	0.	3420.	3800.	0.	M 806.	0.	.90	57.	29.8	D	22.4	2.5
21	2	1660.	528.	724.	4708.	528.	587.	3821.	3964.	336.	0.	0.	.96	54.	35.4	E	23.4	2.0
22	2	2270.	0.	0.	3984.	0.	0.	3234.	4400.	0.	0.	0.	.73	62.	26.2	D	20.7	4.2
23	2	3040.	416.	432.	4400.	416.	358.	3650.	4100.	0.	0.	0.	.89	58.	31.3	D	22.1	2.8
24	2	2190.	0.	0.	3968.	0.	0.	3292.	4200.	0.	0.	0.	.78	64.	25.9	C	19.8	5.3
25	3	2400.	132.	4100.	4100.	132.	3424.	3424.	6150.	0.	0.	0.	.56	65.	17.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 33.	46.4		17.9	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	341. VEH-HRS	402. PASS-HRS	1072. VEH-HRS	1264. PASS-HRS
FREEWAY MERGE DELAY =	4. VEH-HRS	5. PASS-HRS	4. VEH-HRS	5. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	345. VEH-HRS	407. PASS-HRS	1076. VEH-HRS	1269. PASS-HRS
TOTAL TRAV DISTANCE =	11234. VEH-MI.	13256. PASS-MI.	44376. VEH-MI.	52364. PASS-MI.
AVERAGE SYSTEM SPEED =	33. MPH.		41. MPH.	
AVERAGE DENSITY =	46. VPMPL		38. VPMPL	
TOTAL FUEL =	628. GALLONS		2388. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		158. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 13	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	32.	3.96	1.42	0.02	0.14	0.01	0.18
	TOTAL	32.	3.96	1.42	0.02	0.14	0.01	0.18

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2396.	0.	2396.	2396.	0.	2396.	3850.	0.	0.	0.	.62	50.	24.0	C	17.4	2.3
2	2	2070.	456.	0.	2852.	456.	0.	2852.	3832.	18.	0.	0.	.74	50.	28.5	D	15.9	2.3
3	3	2300.	1468.	500.	4320.	1468.	500.	4320.	5751.	349.	0.	0.	.75	55.	26.2	D	14.0	2.4
4	3	1020.	0.	0.	3820.	0.	0.	3820.	6100.	0.	0.	0.	.63	62.	20.5	C	19.9	4.8
5	3	710.	100.	0.	3920.	100.	0.	3920.	6100.	0.	0.	0.	.64	62.	21.1	C	16.1	4.4
6	3	3820.	316.	1108.	4236.	316.	1108.	4236.	6115.	35.	0.	0.	.69	62.	22.8	C	17.1	4.8
7	2	1220.	0.	0.	3128.	0.	0.	3128.	4400.	0.	0.	0.	.71	62.	25.3	C	18.2	4.3
8	3	4810.	528.	828.	3656.	528.	828.	3194.	6100.	0.	* 3362.	462.	.52	15.	70.6	F	14.5	5.7
9	2	1370.	0.	0.	2828.	0.	0.	2366.	4000.	0.	** 1370.	462.	.59	10.	116.7	F	14.7	6.3
10	2	660.	448.	0.	3276.	448.	0.	2814.	4362.	38.	** 660.	462.	.65	12.	117.7	F	16.3	5.9
11	3	790.	1164.	824.	4440.	1164.	824.	3978.	5446.	654.	** 790.	462.	.73	16.	85.4	F	23.5	5.1
12	2	1460.	0.	0.	3616.	0.	0.	3154.	4100.	0.	** 1460.	462.	.77	18.	89.9	F	17.4	4.7
13	3	1400.	616.	0.	4232.	616.	0.	3770.	6032.	68.	** 1400.	462.	.63	11.	111.9	F	10.3	6.0
14	3	2600.	0.	460.	4232.	0.	460.	3770.	6032.	68.	** 2600.	462.	.63	11.	111.9	F	13.8	6.0
15	2	2010.	0.	0.	3772.	0.	0.	3310.	3900.	0.	** 2010.	462.	.85	23.	72.9	F	13.5	3.8
16	3	6120.	692.	588.	4464.	692.	588.	4002.	6100.	0.	** 6120.	462.	.66	12.	108.0	F	12.7	5.8
17	2	1240.	0.	0.	3876.	0.	0.	3414.	4300.	0.	** 1240.	462.	.79	19.	89.9	F	15.0	4.4
18	2	930.	416.	0.	4292.	416.	0.	3830.	4100.	0.	** 930.	270.	.93	31.	62.3	F	21.7	2.9
19	2	5330.	120.	580.	4412.	120.	519.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3832.	0.	0.	3431.	3800.	0.	M 481.	0.	.90	57.	30.0	D	22.4	2.5
21	2	1660.	512.	680.	4344.	512.	625.	3993.	4019.	281.	0.	0.	.99	52.	38.5	E	23.9	2.0
22	2	2270.	0.	0.	3664.	0.	0.	3368.	4400.	0.	0.	0.	.77	62.	27.4	D	20.8	4.1
23	2	3040.	340.	420.	4004.	340.	389.	3708.	4100.	0.	0.	0.	.90	58.	32.2	D	22.3	2.6
24	2	2190.	0.	0.	3584.	0.	0.	3320.	4200.	0.	0.	0.	.79	63.	26.2	D	19.9	5.2
25	3	2400.	160.	3744.	3744.	160.	3480.	3480.	6150.	0.	0.	0.	.57	65.	17.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 26.	53.5		16.8	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	392. VEH-HRS	463. PASS-HRS	1464. VEH-HRS	1728. PASS-HRS
FREEWAY MERGE DELAY =	2. VEH-HRS	3. PASS-HRS	6. VEH-HRS	7. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	395. VEH-HRS	466. PASS-HRS	1470. VEH-HRS	1735. PASS-HRS
TOTAL TRAV DISTANCE =	10079. VEH-MI.	11893. PASS-MI.	54455. VEH-MI.	64257. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		37. MPH.	
AVERAGE DENSITY =	53. VPMPL		41. VPMPL	
TOTAL FUEL =	603. GALLONS		2990. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		200. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 13	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	19.	2.38	0.85	0.01	0.08	0.01	0.11
	TOTAL	19.	2.38	0.85	0.01	0.08	0.01	0.11

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2508.	0.	2508.	2508.	0.	2508.	3850.	0.	0.	0.	.65	50.	25.1	C	17.4	2.3
2	2	2070.	404.	0.	2912.	404.	0.	2912.	3835.	15.	0.	0.	.76	50.	29.1	D	15.9	2.3
3	3	2300.	1416.	436.	4328.	1416.	436.	4328.	5791.	309.	0.	0.	.75	55.	26.2	D	14.0	2.4
4	3	1020.	0.	0.	3892.	0.	0.	3892.	6100.	0.	0.	0.	.64	62.	20.9	C	19.9	4.8
5	3	710.	92.	0.	3984.	92.	0.	3984.	6100.	0.	0.	0.	.65	62.	21.4	C	16.1	4.4
6	3	3820.	248.	1112.	4232.	248.	1112.	4232.	6132.	18.	0.	0.	.69	62.	22.8	C	17.1	4.8
7	2	1220.	0.	0.	3120.	0.	0.	2606.	4400.	0.	* 940.	514.	.59	42.	31.1	F	17.3	4.5
8	3	4810.	540.	784.	3660.	540.	784.	3146.	6100.	0.	** 4810.	514.	.52	9.	117.2	F	11.4	7.0
9	2	1370.	0.	0.	2876.	0.	0.	2362.	4000.	0.	** 1370.	514.	.59	10.	116.9	F	14.7	6.3
10	2	660.	420.	0.	3296.	420.	0.	2782.	4367.	33.	** 660.	514.	.64	12.	119.3	F	16.0	6.0
11	3	790.	1096.	764.	4392.	1096.	764.	3878.	5489.	611.	** 790.	514.	.71	14.	89.6	F	22.1	5.4
12	2	1460.	0.	0.	3628.	0.	0.	3114.	4100.	0.	** 1460.	514.	.76	17.	91.5	F	17.1	4.8
13	3	1400.	632.	0.	4260.	632.	0.	3746.	6040.	60.	** 1400.	514.	.62	11.	112.8	F	10.3	6.1
14	3	2600.	0.	396.	4260.	0.	396.	3746.	6040.	60.	** 2600.	514.	.62	11.	112.8	F	13.7	6.1
15	2	2010.	0.	0.	3864.	0.	0.	3350.	3900.	0.	** 2010.	514.	.86	24.	71.2	F	13.7	3.6
16	3	6120.	600.	540.	4464.	600.	540.	3950.	6100.	0.	** 6120.	514.	.65	12.	109.4	F	12.6	5.9
17	2	1240.	0.	0.	3924.	0.	0.	3410.	4300.	0.	** 1240.	514.	.79	19.	90.1	F	14.9	4.4
18	2	930.	412.	0.	4336.	412.	0.	3822.	4100.	0.	** 930.	278.	.93	31.	62.6	F	21.7	2.9
19	2	5330.	128.	520.	4464.	128.	460.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3944.	0.	0.	3470.	3800.	0.	B 442.	20.	.91	52.	33.1	F	22.5	2.4
21	2	1660.	532.	600.	4476.	532.	540.	4024.	4024.	276.	0.	0.	1.00	51.	39.2	E	24.0	2.0
22	2	2270.	0.	0.	3876.	0.	0.	3484.	4400.	0.	0.	0.	.79	61.	28.5	D	21.0	3.9
23	2	3040.	180.	412.	4056.	180.	372.	3664.	4100.	0.	0.	0.	.89	58.	31.5	D	22.2	2.7
24	2	2190.	0.	0.	3644.	0.	0.	3292.	4200.	0.	0.	0.	.78	64.	25.9	C	19.8	5.3
25	3	2400.	148.	3792.	3792.	148.	3440.	3440.	6150.	0.	0.	0.	.56	65.	17.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 24.	57.9		16.3	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	428. VEH-HRS	505. PASS-HRS	1892. VEH-HRS	2232. PASS-HRS
FREEWAY MERGE DELAY =	2. VEH-HRS	2. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	429. VEH-HRS	507. PASS-HRS	1900. VEH-HRS	2242. PASS-HRS
TOTAL TRAV DISTANCE =	10055. VEH-MI.	11865. PASS-MI.	64510. VEH-MI.	76122. PASS-MI.
AVERAGE SYSTEM SPEED =	23. MPH.		34. MPH.	
AVERAGE DENSITY =	58. VPMPL		44. VPMPL	
TOTAL FUEL =	616. GALLONS		3606. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		242. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 13	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	13.	1.68	0.60	0.01	0.06	0.01	0.07
	TOTAL	13.	1.68	0.60	0.01	0.06	0.01	0.07

QUEUE CLEAR SECTION 20 T2 =0.221

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2288.	0.	2288.	2288.	0.	2288.	3850.	0.	0.	0.	.59	50.	22.9	C	17.4	2.3
2	2	2070.	436.	0.	2724.	436.	0.	2724.	3834.	16.	0.	0.	.71	50.	27.2	D	15.9	2.3
3	3	2300.	1660.	500.	4384.	1660.	500.	4384.	5769.	331.	0.	0.	.76	55.	26.6	D	14.0	2.4
4	3	1020.	0.	0.	3884.	0.	0.	3884.	6100.	0.	0.	0.	.64	62.	20.9	C	19.9	4.8
5	3	710.	84.	0.	3968.	84.	0.	3968.	6100.	0.	0.	0.	.65	62.	21.3	C	16.1	4.4
6	3	3820.	264.	1176.	4232.	264.	1176.	3742.	6112.	38.	* 2113.	490.	.61	30.	41.9	F	15.4	5.2
7	2	1220.	0.	0.	3056.	0.	0.	2566.	4400.	0.	** 1220.	490.	.58	10.	128.6	F	11.7	6.3
8	3	4810.	560.	828.	3616.	560.	828.	3126.	6100.	0.	** 4810.	490.	.51	8.	131.8	F	10.6	7.4
9	2	1370.	0.	0.	2788.	0.	0.	2298.	4000.	0.	** 1370.	490.	.57	10.	119.5	F	13.9	6.5
10	2	660.	420.	0.	3208.	420.	0.	2718.	4365.	35.	** 660.	490.	.62	11.	121.9	F	15.6	6.1
11	3	790.	1136.	804.	4344.	1136.	804.	3854.	5467.	633.	** 790.	490.	.71	14.	89.5	F	22.0	5.4
12	2	1460.	0.	0.	3540.	0.	0.	3050.	4100.	0.	** 1460.	490.	.74	16.	94.1	F	16.8	5.0
13	3	1400.	644.	0.	4184.	644.	0.	3694.	6040.	60.	** 1400.	490.	.61	11.	114.2	F	10.2	6.1
14	3	2600.	0.	396.	4184.	0.	396.	3694.	6040.	60.	** 2600.	490.	.61	11.	114.2	F	13.6	6.1
15	2	2010.	0.	0.	3788.	0.	0.	3298.	3900.	0.	** 2010.	490.	.85	22.	73.3	F	13.5	3.8
16	3	6120.	576.	544.	4364.	576.	544.	3874.	6100.	0.	** 6120.	490.	.64	12.	111.5	F	12.4	6.0
17	2	1240.	0.	0.	3820.	0.	0.	3330.	4300.	0.	** 1240.	490.	.77	18.	93.4	F	14.6	4.7
18	2	930.	468.	0.	4288.	468.	0.	3798.	4100.	0.	** 930.	302.	.93	30.	63.6	F	21.5	2.9
19	2	5330.	152.	564.	4440.	152.	502.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3876.	0.	0.	3471.	3800.	0.	0.	-23.	.91	53.	32.6	D	22.4	2.5
21	2	1660.	504.	636.	4380.	504.	585.	4029.	4041.	259.	0.	0.	.99	52.	39.1	E	23.9	2.0
22	2	2270.	0.	0.	3744.	0.	0.	3444.	4400.	0.	0.	0.	.78	61.	28.1	D	20.9	3.9
23	2	3040.	152.	404.	3896.	152.	373.	3596.	4100.	0.	0.	0.	.88	59.	30.6	D	22.0	2.9
24	2	2190.	0.	0.	3492.	0.	0.	3223.	4200.	0.	0.	0.	.77	64.	25.2	C	19.7	5.5
25	3	2400.	124.	3616.	3616.	124.	3347.	3347.	6150.	0.	0.	0.	.54	65.	17.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 21.	62.4		15.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	461. VEH-HRS	544. PASS-HRS	2353. VEH-HRS	2777. PASS-HRS
FREEWAY MERGE DELAY =	2. VEH-HRS	2. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	463. VEH-HRS	546. PASS-HRS	2363. VEH-HRS	2788. PASS-HRS
TOTAL TRAV DISTANCE =	9817. VEH-MI.	11585. PASS-MI.	74328. VEH-MI.	87707. PASS-MI.
AVERAGE SYSTEM SPEED =	21. MPH.		32. MPH.	
AVERAGE DENSITY =	62. VPMPL		46. VPMPL	
TOTAL FUEL =	618. GALLONS		4225. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		285. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 13	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	0.	1.52	0.54	0.01	0.05	0.01	0.07
	TOTAL	0.	1.52	0.54	0.01	0.05	0.01	0.07

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3320.	0.	3320.	3320.	0.	3320.	3850.	0.	0.	0.	.86	50.	33.2	D	17.4	2.3
2	2	2070.	376.	0.	3696.	376.	0.	3696.	3829.	21.	0.	0.	.97	50.	37.0	E	15.9	2.3
3	3	2300.	1268.	568.	4964.	1268.	568.	4964.	5653.	447.	0.	0.	.88	55.	30.1	D	14.0	2.4
4	3	1020.	0.	0.	4396.	0.	0.	3710.	6100.	0.	** 1020.	686.	.61	37.	33.1	F	18.5	5.1
5	3	710.	56.	0.	4452.	56.	0.	3766.	6100.	0.	** 710.	686.	.62	22.	56.1	F	13.8	5.0
6	3	3820.	208.	1276.	4660.	208.	1276.	3974.	6104.	46.	** 3820.	686.	.65	13.	98.3	F	12.4	6.2
7	2	1220.	0.	0.	3384.	0.	0.	2698.	4400.	0.	** 1220.	686.	.61	11.	124.5	F	12.1	6.1
8	3	4810.	480.	908.	3864.	480.	908.	3178.	6100.	0.	** 4810.	686.	.52	8.	130.4	F	10.9	7.3
9	2	1370.	0.	0.	2956.	0.	0.	2270.	4000.	0.	** 1370.	686.	.57	9.	120.7	F	13.6	6.6
10	2	660.	416.	0.	3372.	416.	0.	2686.	4364.	36.	** 660.	686.	.62	11.	123.1	F	15.3	6.1
11	3	790.	1208.	864.	4580.	1208.	864.	3894.	5420.	680.	** 790.	686.	.72	15.	86.7	F	22.9	5.3
12	2	1460.	0.	0.	3716.	0.	0.	3030.	4100.	0.	** 1460.	686.	.74	16.	95.0	F	16.7	5.1
13	3	1400.	700.	0.	4416.	700.	0.	3730.	6024.	76.	** 1400.	686.	.62	11.	112.7	F	10.3	6.1
14	3	2600.	0.	488.	4416.	0.	488.	3730.	6024.	76.	** 2600.	686.	.62	11.	112.7	F	13.7	6.1
15	2	2010.	0.	0.	3928.	0.	0.	3242.	3900.	0.	** 2010.	658.	.83	21.	75.6	F	13.2	4.0
16	3	6120.	660.	656.	4588.	660.	652.	3902.	6100.	0.	** 6120.	658.	.64	12.	110.7	F	12.5	5.9
17	2	1240.	0.	0.	3932.	0.	0.	3250.	4300.	0.	** 1240.	658.	.76	17.	96.6	F	14.4	4.9
18	2	930.	512.	0.	4444.	512.	0.	3762.	4100.	0.	** 930.	338.	.92	29.	65.1	F	21.2	3.0
19	2	5330.	188.	720.	4632.	188.	614.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3912.	0.	0.	3336.	3800.	0.	0.	0.	.88	58.	28.7	D	22.1	2.8
21	2	1660.	496.	704.	4408.	496.	612.	3832.	4030.	270.	0.	0.	.95	55.	35.0	E	23.2	2.0
22	2	2270.	0.	0.	3704.	0.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	20.7	4.3
23	2	3040.	144.	432.	3848.	144.	378.	3364.	4100.	0.	0.	0.	.82	61.	27.8	D	21.3	3.5
24	2	2190.	0.	0.	3416.	0.	0.	2986.	4200.	0.	0.	0.	.71	65.	23.1	C	19.3	5.9
25	3	2400.	144.	3560.	3560.	144.	3130.	3130.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 20.	67.3		15.5	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	501. VEH-HRS	591. PASS-HRS	2854. VEH-HRS	3367. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	501. VEH-HRS	591. PASS-HRS	2863. VEH-HRS	3379. PASS-HRS
TOTAL TRAV DISTANCE =	10181. VEH-MI.	12014. PASS-MI.	84509. VEH-MI.	99720. PASS-MI.
AVERAGE SYSTEM SPEED =	20. MPH.		30. MPH.	
AVERAGE DENSITY =	67. VPMPL		49. VPMPL	
TOTAL FUEL =	656. GALLONS		4881. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		330. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2696.	0.	2696.	2696.	0.	2696.	3850.	0.	0.	0.	.70	50.	27.0	D	17.4	2.3
2	2	2070.	372.	0.	3068.	372.	0.	2558.	3831.	19.	* 1198.	510.	.67	43.	30.0	F	15.4	2.6
3	3	2300.	1244.	540.	4312.	1244.	540.	3802.	5714.	386.	** 2300.	510.	.67	19.	68.5	F	11.3	4.7
4	3	1020.	0.	0.	3772.	0.	0.	3262.	6100.	0.	** 1020.	510.	.53	8.	128.1	F	10.7	7.7
5	3	710.	104.	0.	3876.	104.	0.	3366.	6100.	0.	** 710.	510.	.55	9.	125.3	F	9.8	6.8
6	3	3820.	208.	1192.	4084.	208.	1192.	3574.	6128.	22.	** 3820.	510.	.58	10.	120.6	F	11.0	7.0
7	2	1220.	0.	0.	2892.	0.	0.	2382.	4400.	0.	** 1220.	510.	.54	9.	137.4	F	10.4	7.0
8	3	4810.	452.	888.	3344.	452.	888.	2834.	6100.	0.	** 4810.	510.	.46	7.	139.8	F	9.6	8.0
9	2	1370.	0.	0.	2456.	0.	0.	1946.	4000.	0.	** 1370.	510.	.49	7.	133.9	F	10.7	7.7
10	2	660.	364.	0.	2820.	364.	0.	2310.	4369.	31.	** 660.	510.	.53	8.	138.7	F	12.0	7.2
11	3	790.	1148.	736.	3968.	1148.	736.	3458.	5539.	561.	** 790.	510.	.62	11.	102.8	F	18.1	6.0
12	2	1460.	0.	0.	3232.	0.	0.	2722.	4100.	0.	** 1460.	510.	.66	13.	107.5	F	14.7	5.7
13	3	1400.	744.	0.	3976.	744.	0.	3466.	6012.	88.	** 1400.	510.	.58	10.	119.4	F	9.7	6.5
14	3	2600.	0.	476.	3976.	0.	476.	3466.	6012.	88.	** 2600.	510.	.58	10.	119.4	F	12.7	6.5
15	2	2010.	0.	0.	3500.	0.	0.	2990.	3900.	0.	** 2010.	510.	.77	17.	85.9	F	12.4	4.7
16	3	6120.	824.	648.	4324.	824.	648.	3814.	6100.	0.	** 6120.	510.	.63	11.	113.1	F	12.3	6.0
17	2	1240.	0.	0.	3676.	0.	0.	3166.	4300.	0.	** 1240.	510.	.74	16.	100.1	F	14.2	5.1
18	2	930.	556.	0.	4232.	556.	0.	3722.	4100.	0.	** 930.	378.	.91	28.	66.7	F	20.9	3.1
19	2	5330.	228.	732.	4460.	228.	648.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3728.	0.	0.	3302.	3800.	0.	0.	0.	.87	59.	28.2	D	22.0	2.8
21	2	1660.	468.	680.	4196.	468.	611.	3770.	4065.	235.	0.	0.	.93	56.	33.6	D	22.8	2.2
22	2	2270.	0.	0.	3516.	0.	0.	3159.	4400.	0.	0.	0.	.72	62.	25.5	C	20.6	4.3
23	2	3040.	168.	404.	3684.	168.	365.	3327.	4100.	0.	0.	0.	.81	61.	27.4	D	21.2	3.6
24	2	2190.	0.	0.	3280.	0.	0.	2962.	4200.	0.	0.	0.	.71	65.	22.9	C	19.3	6.0
25	3	2400.	148.	3428.	3428.	148.	3110.	3110.	6150.	0.	0.	0.	.51	65.	15.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 17.	74.7		14.5	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	563. VEH-HRS	664. PASS-HRS	3417. VEH-HRS	4032. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	563. VEH-HRS	664. PASS-HRS	3426. VEH-HRS	4043. PASS-HRS
TOTAL TRAV DISTANCE =	9363. VEH-MI.	11048. PASS-MI.	93872. VEH-MI.	110768. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		27. MPH.	
AVERAGE DENSITY =	75. VPMPL		52. VPMPL	
TOTAL FUEL =	647. GALLONS		5527. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		376. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2944.	0.	2944.	2944.	0.	2318.	3850.	0.	* 4398.	626.	.60	26.	45.4	F	14.8	3.5
2	2	2070.	324.	0.	3268.	324.	0.	2642.	3833.	17.	** 2070.	626.	.69	14.	94.1	F	10.8	5.9
3	3	2300.	1236.	556.	4504.	1236.	556.	3878.	5676.	424.	** 2300.	626.	.68	13.	96.3	F	10.3	6.1
4	3	1020.	0.	0.	3948.	0.	0.	3322.	6100.	0.	** 1020.	626.	.54	9.	126.5	F	10.9	7.6
5	3	710.	84.	0.	4032.	84.	0.	3406.	6100.	0.	** 710.	626.	.56	9.	124.2	F	10.0	6.7
6	3	3820.	192.	1200.	4224.	192.	1200.	3598.	6130.	20.	** 3820.	626.	.59	10.	120.0	F	11.1	6.9
7	2	1220.	0.	0.	3024.	0.	0.	2398.	4400.	0.	** 1220.	626.	.54	9.	136.8	F	10.5	6.9
8	3	4810.	368.	880.	3392.	368.	880.	2766.	6100.	0.	** 4810.	626.	.45	7.	141.6	F	9.5	8.1
9	2	1370.	0.	0.	2512.	0.	0.	1886.	4000.	0.	** 1370.	626.	.47	7.	136.4	F	10.3	7.9
10	2	660.	360.	0.	2872.	360.	0.	2246.	4371.	29.	** 660.	626.	.51	8.	141.4	F	11.5	7.4
11	3	790.	1132.	736.	4004.	1132.	736.	3378.	5537.	563.	** 790.	626.	.61	11.	104.9	F	17.6	6.1
12	2	1460.	0.	0.	3268.	0.	0.	2642.	4100.	0.	** 1460.	626.	.64	12.	110.8	F	14.2	5.9
13	3	1400.	700.	0.	3968.	700.	0.	3342.	6016.	84.	** 1400.	626.	.56	9.	123.0	F	9.2	6.8
14	3	2600.	0.	476.	3968.	0.	476.	3342.	6016.	84.	** 2600.	626.	.56	9.	123.0	F	11.9	6.8
15	2	2010.	0.	0.	3492.	0.	0.	2866.	3900.	0.	** 2010.	626.	.73	16.	91.0	F	12.1	5.1
16	3	6120.	896.	612.	4388.	896.	612.	3762.	6100.	0.	** 6120.	626.	.62	11.	114.5	F	12.1	6.1
17	2	1240.	0.	0.	3776.	0.	0.	3150.	4300.	0.	** 1240.	626.	.73	16.	100.7	F	14.1	5.1
18	2	930.	568.	0.	4344.	568.	0.	3718.	4100.	0.	** 930.	382.	.91	28.	66.9	F	20.9	3.1
19	2	5330.	232.	732.	4576.	232.	632.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3844.	0.	0.	3318.	3800.	0.	0.	0.	.87	58.	28.4	D	22.1	2.8
21	2	1660.	444.	696.	4288.	444.	611.	3762.	4077.	223.	0.	0.	.92	56.	33.4	D	22.7	2.3
22	2	2270.	0.	0.	3592.	0.	0.	3152.	4400.	0.	0.	0.	.72	62.	25.5	C	20.6	4.3
23	2	3040.	196.	404.	3788.	196.	357.	3348.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
24	2	2190.	0.	0.	3384.	0.	0.	2991.	4200.	0.	0.	0.	.71	65.	23.1	C	19.3	5.9
25	3	2400.	132.	3516.	3516.	132.	3123.	3123.	6150.	0.	0.	0.	.51	65.	16.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 15.	80.7		14.0	5.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 10 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	605. VEH-HRS	714. PASS-HRS	4021. VEH-HRS	4745. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	605. VEH-HRS	714. PASS-HRS	4031. VEH-HRS	4757. PASS-HRS
TOTAL TRAV DISTANCE =	9268. VEH-MI.	10936. PASS-MI.	103139. VEH-MI.	121704. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		26. MPH.	
AVERAGE DENSITY =	81. VPMPL		55. VPMPL	
TOTAL FUEL =	664. GALLONS		6191. GALLONS	
TOTAL EMISSIONS =	48. KILOGRAMS		424. KILOGRAMS	

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2532.	0.	2532.	2532.	0.	1934.	3850.	0.	** 6300.	598.	.50	8.	116.3	F	8.8	7.6
2	2	2070.	396.	0.	2928.	396.	0.	2330.	3832.	18.	** 2070.	598.	.61	11.	109.2	F	9.8	6.7
3	3	2300.	1240.	536.	4168.	1240.	536.	3570.	5721.	379.	** 2300.	598.	.62	11.	106.3	F	9.7	6.6
4	3	1020.	0.	0.	3632.	0.	0.	3034.	6100.	0.	** 1020.	598.	.50	8.	134.3	F	9.7	8.3
5	3	710.	108.	0.	3740.	108.	0.	3142.	6100.	0.	** 710.	598.	.52	8.	131.4	F	9.0	7.4
6	3	3820.	196.	1152.	3936.	196.	1152.	3338.	6136.	14.	** 3820.	598.	.54	9.	127.3	F	9.9	7.6
7	2	1220.	0.	0.	2784.	0.	0.	2186.	4400.	0.	** 1220.	598.	.50	8.	145.4	F	9.4	7.6
8	3	4810.	400.	832.	3184.	400.	832.	2586.	6100.	0.	** 4810.	598.	.42	6.	146.5	F	9.0	8.5
9	2	1370.	0.	0.	2352.	0.	0.	1754.	4000.	0.	** 1370.	598.	.44	6.	141.7	F	9.6	8.3
10	2	660.	336.	0.	2688.	336.	0.	2090.	4371.	29.	** 660.	598.	.48	7.	147.8	F	10.5	7.8
11	3	790.	1132.	720.	3820.	1132.	720.	3222.	5557.	543.	** 790.	598.	.58	10.	109.9	F	16.4	6.4
12	2	1460.	0.	0.	3100.	0.	0.	2502.	4100.	0.	** 1460.	598.	.61	11.	116.5	F	13.5	6.1
13	3	1400.	712.	0.	3812.	712.	0.	3214.	6016.	84.	** 1400.	598.	.53	8.	126.4	F	8.8	7.1
14	3	2600.	0.	440.	3812.	0.	440.	3214.	6016.	84.	** 2600.	598.	.53	8.	126.4	F	11.2	7.1
15	2	2010.	0.	0.	3372.	0.	0.	2774.	3900.	0.	** 2010.	598.	.71	15.	94.7	F	11.9	5.3
16	3	6120.	864.	544.	4236.	864.	544.	3638.	6100.	0.	** 6120.	598.	.60	10.	117.9	F	11.9	6.2
17	2	1240.	0.	0.	3692.	0.	0.	3094.	4300.	0.	** 1240.	598.	.72	15.	103.0	F	14.0	5.3
18	2	930.	636.	0.	4328.	636.	0.	3730.	4100.	0.	** 930.	370.	.91	28.	66.4	F	21.0	3.1
19	2	5330.	220.	656.	4548.	220.	570.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3892.	0.	0.	3380.	3800.	0.	0.	0.	.89	58.	29.3	D	22.3	2.7
21	2	1660.	492.	676.	4384.	492.	597.	3872.	4030.	270.	0.	0.	.96	54.	35.8	E	23.3	2.0
22	2	2270.	0.	0.	3708.	0.	0.	3275.	4400.	0.	0.	0.	.74	62.	26.5	D	20.7	4.2
23	2	3040.	164.	400.	3872.	164.	355.	3439.	4100.	0.	0.	0.	.84	60.	28.6	D	21.6	3.2
24	2	2190.	0.	0.	3472.	0.	0.	3084.	4200.	0.	0.	0.	.73	64.	23.9	C	19.4	5.8
25	3	2400.	88.	3560.	3560.	88.	3172.	3172.	6150.	0.	0.	0.	.52	65.	16.3	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 13.	91.5		13.0	5.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	669. VEH-HRS	790. PASS-HRS	4691. VEH-HRS	5535. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	19. VEH-HRS	22. PASS-HRS	19. VEH-HRS	22. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	688. VEH-HRS	812. PASS-HRS	4719. VEH-HRS	5569. PASS-HRS
TOTAL TRAV DISTANCE =	8805. VEH-MI.	10390. PASS-MI.	111944. VEH-MI.	132094. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		24. MPH.	
AVERAGE DENSITY =	92. VPMPL		58. VPMPL	
TOTAL FUEL =	685. GALLONS		6876. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		474. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	150.	18.69	7.10	0.11	0.67	0.12	0.90
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	150.	18.69	7.10	0.11	0.67	0.12	0.90

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2812.	0.	2812.	2812.	0.	2250.	3850.	0.	** 6300.	562.	.58	10.	113.5	F	10.2	6.9
2	2	2070.	320.	0.	3132.	320.	0.	2570.	3834.	16.	** 2070.	562.	.67	13.	99.6	F	10.5	6.2
3	3	2300.	1072.	528.	4204.	1072.	528.	3642.	5728.	372.	** 2300.	562.	.64	12.	104.6	F	9.8	6.5
4	3	1020.	0.	0.	3676.	0.	0.	3114.	6100.	0.	** 1020.	562.	.51	8.	132.2	F	10.0	8.1
5	3	710.	108.	0.	3784.	108.	0.	3222.	6100.	0.	** 710.	562.	.53	8.	129.2	F	9.3	7.2
6	3	3820.	204.	1152.	3988.	204.	1152.	3426.	6136.	14.	** 3820.	562.	.56	9.	124.9	F	10.2	7.4
7	2	1220.	0.	0.	2836.	0.	0.	2274.	4400.	0.	** 1220.	562.	.52	8.	141.8	F	9.8	7.3
8	3	4810.	476.	816.	3312.	476.	816.	2750.	6100.	0.	** 4810.	562.	.45	6.	142.1	F	9.4	8.2
9	2	1370.	0.	0.	2496.	0.	0.	1934.	4000.	0.	** 1370.	562.	.48	7.	134.4	F	10.6	7.8
10	2	660.	276.	0.	2772.	276.	0.	2210.	4376.	24.	** 660.	562.	.50	8.	143.2	F	11.2	7.5
11	3	790.	1148.	740.	3920.	1148.	740.	3358.	5548.	552.	** 790.	562.	.61	11.	105.9	F	17.4	6.2
12	2	1460.	0.	0.	3180.	0.	0.	2618.	4100.	0.	** 1460.	562.	.64	12.	111.8	F	14.1	5.9
13	3	1400.	712.	0.	3892.	712.	0.	3330.	6008.	92.	** 1400.	562.	.55	9.	123.0	F	9.2	6.8
14	3	2600.	0.	496.	3892.	0.	496.	3330.	6008.	92.	** 2600.	562.	.55	9.	123.0	F	11.9	6.8
15	2	2010.	0.	0.	3396.	0.	0.	2834.	3900.	0.	** 2010.	562.	.73	15.	92.3	F	12.1	5.2
16	3	6120.	832.	584.	4228.	832.	584.	3666.	6100.	0.	** 6120.	562.	.60	10.	117.1	F	12.0	6.2
17	2	1240.	0.	0.	3644.	0.	0.	3082.	4300.	0.	** 1240.	562.	.72	15.	103.5	F	13.9	5.3
18	2	930.	648.	0.	4292.	648.	0.	3730.	4100.	0.	** 930.	370.	.91	28.	66.4	F	21.0	3.1
19	2	5330.	220.	664.	4512.	220.	581.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3848.	0.	0.	3369.	3800.	0.	0.	0.	.89	58.	29.1	D	22.2	2.7
21	2	1660.	524.	728.	4372.	524.	648.	3893.	3995.	305.	0.	0.	.97	53.	36.6	E	23.6	2.0
22	2	2270.	0.	0.	3644.	0.	0.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	20.7	4.2
23	2	3040.	208.	372.	3852.	208.	333.	3452.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
24	2	2190.	0.	0.	3480.	0.	0.	3119.	4200.	0.	0.	0.	.74	64.	24.3	C	19.5	5.7
25	3	2400.	132.	3612.	3612.	132.	3251.	3251.	6150.	0.	0.	0.	.53	65.	16.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 14.	89.5		13.4	5.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	653. VEH-HRS	771. PASS-HRS	5344. VEH-HRS	6306. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	36. VEH-HRS	43. PASS-HRS	55. VEH-HRS	65. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	690. VEH-HRS	814. PASS-HRS	5409. VEH-HRS	6382. PASS-HRS
TOTAL TRAV DISTANCE =	9057. VEH-MI.	10688. PASS-MI.	121002. VEH-MI.	142782. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		23. MPH.	
AVERAGE DENSITY =	89. VPMPL		61. VPMPL	
TOTAL FUEL =	691. GALLONS		7567. GALLONS	
TOTAL EMISSIONS =	51. KILOGRAMS		525. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	141.	36.25	13.77	0.21	1.30	0.23	1.74
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	141.	36.25	13.77	0.21	1.30	0.23	1.74

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2408.	0.	2408.	2408.	0.	1966.	3850.	0.	** 6300.	442.	.51	8.	125.1	F	8.5	8.1
2	2	2070.	468.	0.	2876.	468.	0.	2434.	3832.	18.	** 2070.	442.	.64	12.	105.0	F	10.1	6.5
3	3	2300.	1256.	464.	4132.	1256.	464.	3690.	5772.	328.	** 2300.	442.	.64	12.	104.8	F	9.8	6.5
4	3	1020.	0.	0.	3668.	0.	0.	3226.	6100.	0.	** 1020.	442.	.53	8.	129.1	F	10.5	7.8
5	3	710.	124.	0.	3792.	124.	0.	3350.	6100.	0.	** 710.	442.	.55	9.	125.7	F	9.8	6.9
6	3	3820.	208.	1200.	4000.	208.	1200.	3558.	6128.	22.	** 3820.	442.	.58	10.	121.1	F	10.9	7.0
7	2	1220.	0.	0.	2800.	0.	0.	2358.	4400.	0.	** 1220.	442.	.54	9.	138.4	F	10.2	7.1
8	3	4810.	404.	840.	3204.	404.	840.	2762.	6100.	0.	** 4810.	442.	.45	6.	141.7	F	9.4	8.2
9	2	1370.	0.	0.	2364.	0.	0.	1922.	4000.	0.	** 1370.	442.	.48	7.	134.9	F	10.6	7.8
10	2	660.	384.	0.	2748.	384.	0.	2306.	4365.	35.	** 660.	442.	.53	8.	138.7	F	12.0	7.2
11	3	790.	1160.	768.	3908.	1160.	768.	3466.	5519.	581.	** 790.	442.	.63	11.	101.9	F	18.2	6.0
12	2	1460.	0.	0.	3140.	0.	0.	2698.	4100.	0.	** 1460.	442.	.66	12.	108.5	F	14.5	5.8
13	3	1400.	752.	0.	3892.	752.	0.	3450.	5984.	116.	** 1400.	442.	.58	10.	118.9	F	9.7	6.5
14	3	2600.	0.	600.	3892.	0.	600.	3450.	5984.	116.	** 2600.	442.	.58	10.	118.9	F	12.7	6.5
15	2	2010.	0.	0.	3292.	0.	0.	2850.	3900.	0.	** 2010.	442.	.73	16.	91.6	F	12.1	5.1
16	3	6120.	832.	620.	4124.	832.	620.	3682.	6100.	0.	** 6120.	442.	.60	11.	116.7	F	12.0	6.2
17	2	1240.	0.	0.	3504.	0.	0.	3062.	4300.	0.	** 1240.	442.	.71	15.	104.3	F	13.8	5.3
18	2	930.	640.	0.	4144.	640.	0.	3702.	4100.	0.	** 930.	398.	.90	27.	67.5	F	20.8	3.2
19	2	5330.	248.	688.	4392.	248.	619.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3704.	0.	0.	3331.	3800.	0.	0.	0.	.88	58.	28.6	D	22.1	2.8
21	2	1660.	548.	744.	4252.	548.	679.	3879.	3961.	339.	0.	0.	.98	53.	36.7	E	23.6	2.0
22	2	2270.	0.	0.	3508.	0.	0.	3200.	4400.	0.	0.	0.	.73	62.	25.9	C	20.6	4.3
23	2	3040.	208.	400.	3716.	208.	367.	3408.	4100.	0.	0.	0.	.83	60.	28.3	D	21.5	3.4
24	2	2190.	0.	0.	3316.	0.	0.	3041.	4200.	0.	0.	0.	.72	65.	23.6	C	19.4	5.8
25	3	2400.	112.	3428.	3428.	112.	3153.	3153.	6150.	0.	0.	0.	.51	65.	16.2	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 14. 89.9 13.3 5.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	653. VEH-HRS	771. PASS-HRS	5998. VEH-HRS	7077. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	31. VEH-HRS	37. PASS-HRS	86. VEH-HRS	102. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	685. VEH-HRS	808. PASS-HRS	6093. VEH-HRS	7190. PASS-HRS
TOTAL TRAV DISTANCE =	9008. VEH-MI.	10629. PASS-MI.	130010. VEH-MI.	153411. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		22. MPH.	
AVERAGE DENSITY =	90. VPMPL		63. VPMPL	
TOTAL FUEL =	687. GALLONS		8254. GALLONS	
TOTAL EMISSIONS =	51. KILOGRAMS		576. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	110.	31.38	11.92	0.18	1.12	0.20	1.51
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	110.	31.38	11.92	0.18	1.12	0.20	1.51

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2892.	0.	2892.	2892.	0.	2398.	3850.	0.	** 6300.	494.	.62	11.	107.4	F	10.6	6.6
2	2	2070.	324.	0.	3216.	324.	0.	2722.	3837.	13.	** 2070.	494.	.71	15.	93.5	F	11.0	5.9
3	3	2300.	1168.	392.	4384.	1168.	392.	3890.	5827.	273.	** 2300.	494.	.67	13.	101.3	F	10.1	6.3
4	3	1020.	0.	0.	3992.	0.	0.	3498.	6100.	0.	** 1020.	494.	.57	10.	121.7	F	12.0	7.1
5	3	710.	108.	0.	4100.	108.	0.	3606.	6100.	0.	** 710.	494.	.59	10.	118.8	F	10.9	6.3
6	3	3820.	192.	1228.	4292.	192.	1228.	3798.	6123.	27.	** 3820.	494.	.62	11.	114.3	F	11.5	6.6
7	2	1220.	0.	0.	3064.	0.	0.	2570.	4400.	0.	** 1220.	494.	.58	10.	129.8	F	11.7	6.3
8	3	4810.	312.	876.	3376.	312.	876.	2882.	6100.	0.	** 4810.	494.	.47	7.	138.5	F	9.8	7.9
9	2	1370.	0.	0.	2500.	0.	0.	2006.	4000.	0.	** 1370.	494.	.50	8.	131.5	F	11.1	7.6
10	2	660.	480.	0.	2980.	480.	0.	2486.	4358.	42.	** 660.	494.	.57	9.	131.0	F	13.7	6.6
11	3	790.	1112.	776.	4092.	1112.	776.	3598.	5482.	618.	** 790.	494.	.66	12.	97.0	F	19.4	5.8
12	2	1460.	0.	0.	3316.	0.	0.	2822.	4100.	0.	** 1460.	494.	.69	14.	103.5	F	15.3	5.5
13	3	1400.	704.	0.	4020.	704.	0.	3526.	5992.	108.	** 1400.	494.	.59	10.	117.1	F	10.0	6.3
14	3	2600.	0.	620.	4020.	0.	620.	3526.	5992.	108.	** 2600.	494.	.59	10.	117.1	F	13.2	6.3
15	2	2010.	0.	0.	3400.	0.	0.	2906.	3900.	0.	** 2010.	494.	.75	16.	89.4	F	12.2	5.0
16	3	6120.	792.	616.	4192.	792.	616.	3698.	6100.	0.	** 6120.	494.	.61	11.	116.2	F	12.0	6.2
17	2	1240.	0.	0.	3576.	0.	0.	3082.	4300.	0.	** 1240.	494.	.72	15.	103.5	F	13.9	5.3
18	2	930.	624.	0.	4200.	624.	0.	3706.	4100.	0.	** 930.	394.	.90	28.	67.3	F	20.8	3.2
19	2	5330.	244.	708.	4444.	244.	629.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3736.	0.	0.	3321.	3800.	0.	0.	0.	.87	58.	28.4	D	22.1	2.8
21	2	1660.	496.	744.	4232.	496.	671.	3817.	4014.	286.	0.	0.	.95	55.	34.9	D	23.2	2.0
22	2	2270.	0.	0.	3488.	0.	0.	3145.	4400.	0.	0.	0.	.71	62.	25.4	C	20.6	4.3
23	2	3040.	212.	416.	3700.	212.	377.	3357.	4100.	0.	0.	0.	.82	61.	27.7	D	21.3	3.5
24	2	2190.	0.	0.	3284.	0.	0.	2980.	4200.	0.	0.	0.	.71	65.	23.0	C	19.3	5.9
25	3	2400.	100.	3384.	3384.	100.	3080.	3080.	6150.	0.	0.	0.	.50	65.	15.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 15.	85.7		13.8	5.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	626. VEH-HRS	739. PASS-HRS	6623. VEH-HRS	7816. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	29. VEH-HRS	35. PASS-HRS	116. VEH-HRS	136. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	655. VEH-HRS	773. PASS-HRS	6749. VEH-HRS	7963. PASS-HRS
TOTAL TRAV DISTANCE =	9307. VEH-MI.	10983. PASS-MI.	139317. VEH-MI.	164394. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		21. MPH.	
AVERAGE DENSITY =	86. VPMPL		65. VPMPL	
TOTAL FUEL =	684. GALLONS		8938. GALLONS	
TOTAL EMISSIONS =	51. KILOGRAMS		627. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	124.	29.25	11.11	0.17	1.05	0.19	1.40
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	124.	29.25	11.11	0.17	1.05	0.19	1.40

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2636.	0.	2636.	2636.	0.	2130.	3850.	0.	** 6300.	506.	.55	9.	118.4	F	9.3	7.4
2	2	2070.	308.	0.	2944.	308.	0.	2438.	3837.	13.	** 2070.	506.	.64	12.	105.1	F	10.1	6.5
3	3	2300.	1160.	408.	4104.	1160.	408.	3598.	5823.	277.	** 2300.	506.	.62	11.	109.1	F	9.6	6.7
4	3	1020.	0.	0.	3696.	0.	0.	3190.	6100.	0.	** 1020.	506.	.52	8.	130.1	F	10.3	7.9
5	3	710.	112.	0.	3808.	112.	0.	3302.	6100.	0.	** 710.	506.	.54	9.	127.0	F	9.6	7.0
6	3	3820.	188.	1152.	3996.	188.	1152.	3490.	6137.	13.	** 3820.	506.	.57	9.	123.2	F	10.5	7.2
7	2	1220.	0.	0.	2844.	0.	0.	2338.	4400.	0.	** 1220.	506.	.53	8.	139.2	F	10.1	7.1
8	3	4810.	396.	844.	3240.	396.	844.	2734.	6100.	0.	** 4810.	506.	.45	6.	142.5	F	9.4	8.2
9	2	1370.	0.	0.	2396.	0.	0.	1890.	4000.	0.	** 1370.	506.	.47	7.	136.2	F	10.4	7.9
10	2	660.	536.	0.	2932.	536.	0.	2426.	4354.	46.	** 660.	506.	.56	9.	133.2	F	13.1	6.8
11	3	790.	1052.	732.	3984.	1052.	732.	3478.	5506.	594.	** 790.	506.	.63	11.	101.1	F	18.4	6.0
12	2	1460.	0.	0.	3252.	0.	0.	2746.	4100.	0.	** 1460.	506.	.67	13.	106.6	F	14.8	5.7
13	3	1400.	724.	0.	3976.	724.	0.	3470.	5992.	108.	** 1400.	506.	.58	10.	118.6	F	9.8	6.4
14	3	2600.	0.	592.	3976.	0.	592.	3470.	5992.	108.	** 2600.	506.	.58	10.	118.6	F	12.8	6.4
15	2	2010.	0.	0.	3384.	0.	0.	2878.	3900.	0.	** 2010.	506.	.74	16.	90.5	F	12.2	5.1
16	3	6120.	812.	572.	4196.	812.	572.	3690.	6100.	0.	** 6120.	506.	.60	11.	116.5	F	12.0	6.2
17	2	1240.	0.	0.	3624.	0.	0.	3118.	4300.	0.	** 1240.	506.	.73	15.	102.0	F	14.0	5.2
18	2	930.	624.	0.	4248.	624.	0.	3742.	4100.	0.	** 930.	358.	.91	28.	65.9	F	21.1	3.1
19	2	5330.	208.	680.	4456.	208.	603.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3776.	0.	0.	3347.	3800.	0.	0.	0.	.88	58.	28.8	D	22.2	2.7
21	2	1660.	432.	700.	4208.	432.	629.	3779.	4084.	216.	0.	0.	.93	56.	33.7	D	22.8	2.3
22	2	2270.	0.	0.	3508.	0.	0.	3151.	4400.	0.	0.	0.	.72	62.	25.4	C	20.6	4.3
23	2	3040.	256.	404.	3764.	256.	366.	3407.	4100.	0.	0.	0.	.83	60.	28.2	D	21.5	3.4
24	2	2190.	0.	0.	3360.	0.	0.	3041.	4200.	0.	0.	0.	.72	65.	23.6	C	19.4	5.8
25	3	2400.	128.	3488.	3488.	128.	3169.	3169.	6150.	0.	0.	0.	.52	65.	16.2	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 14. 89.3 13.4 5.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	651. VEH-HRS	768. PASS-HRS	7274. VEH-HRS	8584. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	31. VEH-HRS	37. PASS-HRS	147. VEH-HRS	173. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	682. VEH-HRS	805. PASS-HRS	7431. VEH-HRS	8768. PASS-HRS
TOTAL TRAV DISTANCE =	9033. VEH-MI.	10659. PASS-MI.	148350. VEH-MI.	175053. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		20. MPH.	
AVERAGE DENSITY =	89. VPMPL		66. VPMPL	
TOTAL FUEL =	687. GALLONS		9625. GALLONS	
TOTAL EMISSIONS =	51. KILOGRAMS		678. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	127.	31.25	11.87	0.18	1.12	0.20	1.50
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	127.	31.25	11.87	0.18	1.12	0.20	1.50

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3376.	0.	3376.	3376.	0.	2814.	3850.	0.	** 6300.	562.	.73	16.	90.4	F	12.0	5.6
2	2	2070.	240.	0.	3616.	240.	0.	3054.	3841.	9.	** 2070.	562.	.80	19.	80.1	F	11.7	4.8
3	3	2300.	1072.	372.	4688.	1072.	372.	4126.	5845.	255.	** 2300.	562.	.71	14.	95.5	F	10.6	5.9
4	3	1020.	0.	0.	4316.	0.	0.	3754.	6100.	0.	** 1020.	562.	.62	11.	114.7	F	13.0	6.7
5	3	710.	100.	0.	4416.	100.	0.	3854.	6100.	0.	** 710.	562.	.63	11.	112.0	F	11.3	6.0
6	3	3820.	168.	1164.	4584.	168.	1164.	4022.	6138.	12.	** 3820.	562.	.66	12.	108.8	F	12.0	6.4
7	2	1220.	0.	0.	3420.	0.	0.	2858.	4400.	0.	** 1220.	562.	.65	12.	118.0	F	12.6	5.9
8	3	4810.	288.	840.	3708.	288.	840.	3146.	6100.	0.	** 4810.	562.	.52	8.	131.3	F	10.7	7.4
9	2	1370.	0.	0.	2868.	0.	0.	2306.	4000.	0.	** 1370.	562.	.58	10.	119.2	F	14.0	6.5
10	2	660.	428.	0.	3296.	428.	0.	2734.	4365.	35.	** 660.	562.	.63	11.	121.2	F	15.7	6.0
11	3	790.	1080.	780.	4376.	1080.	780.	3814.	5471.	629.	** 790.	562.	.70	14.	90.7	F	21.5	5.5
12	2	1460.	0.	0.	3596.	0.	0.	3034.	4100.	0.	** 1460.	562.	.74	16.	94.8	F	16.7	5.0
13	3	1400.	716.	0.	4312.	716.	0.	3750.	5992.	108.	** 1400.	562.	.63	11.	111.0	F	10.4	6.0
14	3	2600.	0.	660.	4312.	0.	660.	3750.	5992.	108.	** 2600.	562.	.63	11.	111.0	F	13.8	6.0
15	2	2010.	0.	0.	3652.	0.	0.	3090.	3900.	0.	** 2010.	562.	.79	19.	81.8	F	12.7	4.4
16	3	6120.	708.	664.	4360.	708.	664.	3798.	6100.	0.	** 6120.	562.	.62	11.	113.5	F	12.2	6.1
17	2	1240.	0.	0.	3696.	0.	0.	3134.	4300.	0.	** 1240.	562.	.73	15.	101.4	F	14.1	5.2
18	2	930.	604.	0.	4300.	604.	0.	3738.	4100.	0.	** 930.	362.	.91	28.	66.0	F	21.0	3.1
19	2	5330.	212.	712.	4512.	212.	623.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3800.	0.	0.	3327.	3800.	0.	0.	0.	.88	58.	28.5	D	22.1	2.8
21	2	1660.	456.	740.	4256.	456.	658.	3783.	4056.	244.	0.	0.	.93	56.	33.9	D	22.9	2.2
22	2	2270.	0.	0.	3516.	0.	0.	3125.	4400.	0.	0.	0.	.71	62.	25.2	C	20.6	4.3
23	2	3040.	196.	428.	3712.	196.	383.	3321.	4100.	0.	0.	0.	.81	61.	27.3	D	21.2	3.7
24	2	2190.	0.	0.	3284.	0.	0.	2938.	4200.	0.	0.	0.	.70	65.	22.7	C	19.3	6.0
25	3	2400.	104.	3388.	3388.	104.	3042.	3042.	6150.	0.	0.	0.	.49	65.	15.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 17.	80.2		14.4	5.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	588. VEH-HRS	694. PASS-HRS	7863. VEH-HRS	9278. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	33. VEH-HRS	39. PASS-HRS	180. VEH-HRS	213. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	621. VEH-HRS	733. PASS-HRS	8052. VEH-HRS	9502. PASS-HRS
TOTAL TRAV DISTANCE =	9753. VEH-MI.	11509. PASS-MI.	158103. VEH-MI.	186562. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		20. MPH.	
AVERAGE DENSITY =	80. VPMPL		67. VPMPL	
TOTAL FUEL =	691. GALLONS		10316. GALLONS	
TOTAL EMISSIONS =	51. KILOGRAMS		730. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	141.	33.38	12.68	0.19	1.19	0.21	1.60
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	141.	33.38	12.68	0.19	1.19	0.21	1.60

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3340.	0.	3340.	3340.	0.	2738.	3850.	0.	** 6300.	602.	.71	15.	93.5	F	11.7	5.8
2	2	2070.	280.	0.	3620.	280.	0.	3018.	3841.	9.	** 2070.	602.	.79	18.	81.6	F	11.6	4.9
3	3	2300.	1300.	332.	4920.	1300.	332.	4318.	5858.	242.	** 2300.	602.	.74	16.	90.7	F	10.8	5.6
4	3	1020.	0.	0.	4588.	0.	0.	3986.	6100.	0.	** 1020.	602.	.65	12.	108.4	F	13.8	6.4
5	3	710.	148.	0.	4736.	148.	0.	4134.	6100.	0.	** 710.	602.	.68	13.	104.4	F	12.0	5.6
6	3	3820.	212.	1144.	4948.	212.	1144.	4346.	6125.	25.	** 3820.	602.	.71	15.	99.5	F	12.9	5.8
7	2	1220.	0.	0.	3804.	0.	0.	3202.	4400.	0.	** 1220.	602.	.73	15.	103.9	F	14.1	5.2
8	3	4810.	340.	780.	4144.	340.	780.	3542.	6100.	0.	** 4810.	602.	.58	10.	120.5	F	12.9	6.4
9	2	1370.	0.	0.	3364.	0.	0.	2762.	4000.	0.	** 1370.	602.	.69	14.	100.6	F	18.1	5.5
10	2	660.	280.	0.	3644.	280.	0.	3042.	4378.	22.	** 660.	602.	.69	14.	109.3	F	18.3	5.5
11	3	790.	1096.	820.	4740.	1096.	820.	4138.	5442.	658.	** 790.	602.	.76	17.	80.9	F	25.2	4.8
12	2	1460.	0.	0.	3920.	0.	0.	3318.	4100.	0.	** 1460.	602.	.81	20.	83.2	F	18.5	4.2
13	3	1400.	684.	0.	4604.	684.	0.	4002.	5992.	108.	** 1400.	602.	.67	13.	104.1	F	10.8	5.7
14	3	2600.	0.	724.	4604.	0.	724.	4002.	5992.	108.	** 2600.	602.	.67	13.	104.1	F	14.8	5.7
15	2	2010.	0.	0.	3880.	0.	0.	3278.	3900.	0.	** 2010.	602.	.84	22.	74.2	F	13.4	3.9
16	3	6120.	672.	740.	4552.	672.	740.	3950.	6100.	0.	** 6120.	602.	.65	12.	109.4	F	12.6	5.9
17	2	1240.	0.	0.	3812.	0.	0.	3210.	4300.	0.	** 1240.	602.	.75	16.	98.3	F	14.3	5.0
18	2	930.	540.	0.	4352.	540.	0.	3750.	4100.	0.	** 930.	350.	.91	29.	65.5	F	21.1	3.1
19	2	5330.	200.	700.	4552.	200.	608.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3852.	0.	0.	3342.	3800.	0.	0.	0.	.88	58.	28.7	D	22.2	2.7
21	2	1660.	468.	748.	4320.	468.	660.	3810.	4028.	272.	0.	0.	.95	55.	34.6	D	23.1	2.0
22	2	2270.	0.	0.	3572.	0.	0.	3151.	4400.	0.	0.	0.	.72	62.	25.4	C	20.6	4.3
23	2	3040.	180.	396.	3752.	180.	352.	3331.	4100.	0.	0.	0.	.81	61.	27.4	D	21.2	3.6
24	2	2190.	0.	0.	3356.	0.	0.	2979.	4200.	0.	0.	0.	.71	65.	23.0	C	19.3	5.9
25	3	2400.	88.	3444.	3444.	88.	3067.	3067.	6150.	0.	0.	0.	.50	65.	15.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 18.	76.4		15.0	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	558. VEH-HRS	659. PASS-HRS	8421. VEH-HRS	9936. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	36. VEH-HRS	43. PASS-HRS	217. VEH-HRS	256. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	595. VEH-HRS	702. PASS-HRS	8647. VEH-HRS	10203. PASS-HRS
TOTAL TRAV DISTANCE =	10138. VEH-MI.	11963. PASS-MI.	168242. VEH-MI.	198525. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		20. MPH.	
AVERAGE DENSITY =	76. VPMPL		68. VPMPL	
TOTAL FUEL =	689. GALLONS		11006. GALLONS	
TOTAL EMISSIONS =	51. KILOGRAMS		781. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	151.	36.38	13.82	0.21	1.30	0.23	1.75
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	151.	36.38	13.82	0.21	1.30	0.23	1.75

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3148.	0.	3148.	3148.	0.	2498.	3850.	0.	** 6300.	650.	.65	12.	103.3	F	10.8	6.4
2	2	2070.	352.	0.	3500.	352.	0.	2850.	3839.	11.	** 2070.	650.	.74	16.	88.4	F	11.3	5.5
3	3	2300.	1380.	324.	4880.	1380.	324.	4230.	5855.	245.	** 2300.	650.	.72	15.	93.1	F	10.8	5.7
4	3	1020.	0.	0.	4556.	0.	0.	3906.	6100.	0.	** 1020.	650.	.64	12.	110.6	F	13.5	6.5
5	3	710.	216.	0.	4772.	216.	0.	4122.	6100.	0.	** 710.	650.	.68	13.	104.7	F	11.9	5.6
6	3	3820.	168.	1040.	4940.	168.	1040.	4290.	6150.	0.	** 3820.	650.	.70	14.	101.9	F	12.7	6.0
7	2	1220.	0.	0.	3900.	0.	0.	3250.	4400.	0.	** 1220.	650.	.74	16.	102.0	F	14.2	5.1
8	3	4810.	328.	720.	4228.	328.	720.	3578.	6100.	0.	** 4810.	650.	.59	10.	119.5	F	13.1	6.3
9	2	1370.	0.	0.	3508.	0.	0.	2858.	4000.	0.	** 1370.	650.	.71	15.	96.6	F	19.3	5.3
10	2	660.	284.	0.	3792.	284.	0.	3142.	4378.	22.	** 660.	650.	.72	15.	105.2	F	19.5	5.3
11	3	790.	1012.	784.	4804.	1012.	784.	4154.	5454.	646.	** 790.	650.	.76	17.	80.8	F	25.2	4.8
12	2	1460.	0.	0.	4020.	0.	0.	3370.	4100.	0.	** 1460.	650.	.82	21.	81.1	F	18.8	4.1
13	3	1400.	576.	0.	4596.	576.	0.	3946.	6020.	80.	** 1400.	650.	.66	12.	106.6	F	10.7	5.8
14	3	2600.	0.	644.	4596.	0.	644.	3946.	6020.	80.	** 2600.	650.	.66	12.	106.6	F	14.5	5.8
15	2	2010.	0.	0.	3952.	0.	0.	3302.	3900.	0.	** 2010.	598.	.85	23.	73.2	F	13.5	3.8
16	3	6120.	672.	696.	4624.	672.	688.	3974.	6100.	0.	** 6120.	598.	.65	12.	108.7	F	12.6	5.8
17	2	1240.	0.	0.	3928.	0.	0.	3286.	4300.	0.	** 1240.	598.	.76	17.	95.2	F	14.5	4.8
18	2	930.	492.	0.	4420.	492.	0.	3778.	4100.	0.	** 930.	322.	.92	29.	64.4	F	21.3	3.0
19	2	5330.	172.	664.	4592.	172.	571.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3928.	0.	0.	3379.	3800.	0.	0.	0.	.89	58.	29.2	D	22.3	2.7
21	2	1660.	408.	676.	4336.	408.	590.	3787.	4111.	189.	0.	0.	.92	56.	33.6	D	22.7	2.3
22	2	2270.	0.	0.	3660.	0.	0.	3196.	4400.	0.	0.	0.	.73	62.	25.8	C	20.6	4.3
23	2	3040.	224.	416.	3884.	224.	366.	3420.	4100.	0.	0.	0.	.83	60.	28.4	D	21.5	3.3
24	2	2190.	0.	0.	3468.	0.	0.	3054.	4200.	0.	0.	0.	.73	64.	23.7	C	19.4	5.8
25	3	2400.	88.	3556.	3556.	88.	3142.	3142.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 18.		77.7	14.9	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	567. VEH-HRS	669. PASS-HRS	8987. VEH-HRS	10605. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	39. VEH-HRS	46. PASS-HRS	256. VEH-HRS	302. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	606. VEH-HRS	715. PASS-HRS	9252. VEH-HRS	10918. PASS-HRS
TOTAL TRAV DISTANCE =	10092. VEH-MI.	11909. PASS-MI.	178334. VEH-MI.	210434. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		20. MPH.	
AVERAGE DENSITY =	78. VPMPL		68. VPMPL	
TOTAL FUEL =	690. GALLONS		11696. GALLONS	
TOTAL EMISSIONS =	51. KILOGRAMS		832. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	162.	39.12	14.86	0.23	1.40	0.25	1.88
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	162.	39.12	14.86	0.23	1.40	0.25	1.88

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3224.	0.	3224.	3224.	0.	2550.	3850.	0.	** 6300.	674.	.66	13.	101.2	F	11.0	6.3
2	2	2070.	356.	0.	3580.	356.	0.	2906.	3837.	13.	** 2070.	674.	.76	17.	86.0	F	11.4	5.3
3	3	2300.	1436.	376.	5016.	1436.	376.	4342.	5817.	283.	** 2300.	674.	.75	16.	88.7	F	10.9	5.4
4	3	1020.	0.	0.	4640.	0.	0.	3966.	6100.	0.	** 1020.	674.	.65	12.	109.0	F	13.7	6.4
5	3	710.	224.	0.	4864.	224.	0.	4190.	6100.	0.	** 710.	674.	.69	14.	102.9	F	12.1	5.6
6	3	3820.	284.	732.	5148.	284.	732.	4474.	6150.	0.	** 3820.	674.	.73	15.	96.9	F	13.2	5.7
7	2	1220.	0.	0.	4416.	0.	0.	3742.	4400.	0.	** 1220.	658.	.85	23.	81.9	F	16.1	3.8
8	3	4810.	332.	760.	4748.	332.	757.	4074.	6100.	0.	** 4810.	658.	.67	13.	106.0	F	14.7	5.7
9	2	1370.	0.	0.	3988.	0.	0.	3316.	4000.	0.	** 1370.	658.	.83	21.	77.9	F	24.7	4.0
10	2	660.	356.	0.	4344.	356.	0.	3672.	4375.	25.	** 660.	658.	.84	22.	83.4	F	25.0	3.9
11	3	790.	848.	824.	5192.	848.	822.	4520.	5381.	719.	** 790.	658.	.84	22.	68.3	F	30.5	3.9
12	2	1460.	0.	0.	4368.	0.	0.	3698.	4100.	0.	** 1460.	402.	.90	27.	67.7	F	20.8	3.2
13	3	1400.	464.	0.	4832.	464.	0.	4162.	6044.	56.	** 1400.	402.	.69	14.	101.6	F	11.1	5.5
14	3	2600.	0.	592.	4832.	0.	559.	4162.	6044.	56.	** 2600.	402.	.69	14.	101.6	F	15.3	5.5
15	2	2010.	0.	0.	4240.	0.	0.	3603.	3900.	0.	** 2010.	297.	.92	30.	60.9	F	14.9	2.9
16	3	6120.	520.	768.	4760.	520.	713.	4123.	6100.	0.	** 6120.	297.	.68	13.	104.7	F	13.0	5.6
17	2	1240.	0.	0.	3992.	0.	0.	3410.	4300.	0.	** 1240.	297.	.79	19.	90.1	F	14.9	4.4
18	2	930.	388.	0.	4380.	388.	0.	3798.	4100.	0.	** 930.	297.	.93	30.	63.6	F	21.5	2.9
19	2	5330.	152.	712.	4532.	152.	620.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3820.	0.	0.	3330.	3800.	0.	0.	0.	.88	58.	28.6	D	22.1	2.8
21	2	1660.	332.	760.	4152.	332.	670.	3662.	4150.	150.	0.	0.	.88	58.	31.5	D	22.2	2.7
22	2	2270.	0.	0.	3392.	0.	0.	2991.	4400.	0.	0.	0.	.68	62.	24.1	C	20.6	4.4
23	2	3040.	188.	476.	3580.	188.	422.	3179.	4100.	0.	0.	0.	.78	61.	25.9	C	20.9	4.0
24	2	2190.	0.	0.	3104.	0.	0.	2757.	4200.	0.	0.	0.	.66	65.	21.2	C	19.2	6.1
25	3	2400.	80.	3184.	3184.	80.	2837.	2837.	6150.	0.	0.	0.	.46	65.	14.5	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 20. 72.5 15.5 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	530. VEH-HRS	625. PASS-HRS	9517. VEH-HRS	11230. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	41. VEH-HRS	49. PASS-HRS	297. VEH-HRS	351. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	571. VEH-HRS	674. PASS-HRS	9823. VEH-HRS	11592. PASS-HRS
TOTAL TRAV DISTANCE =	10370. VEH-MI.	12237. PASS-MI.	188704. VEH-MI.	222671. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		20. MPH.	
AVERAGE DENSITY =	73. VPMPL		68. VPMPL	
TOTAL FUEL =	686. GALLONS		12381. GALLONS	
TOTAL EMISSIONS =	51. KILOGRAMS		883. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	169.	41.38	15.72	0.24	1.48	0.26	1.99
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	169.	41.38	15.72	0.24	1.48	0.26	1.99

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2492.	0.	2492.	2492.	0.	2265.	3850.	0.	** 6300.	227.	.59	10.	112.9	F	10.3	6.9
2	2	2070.	332.	0.	2824.	332.	0.	2597.	3839.	11.	** 2070.	227.	.68	13.	98.8	F	10.5	6.2
3	3	2300.	1532.	352.	4356.	1532.	352.	4129.	5860.	240.	** 2300.	227.	.70	14.	96.0	F	10.5	5.9
4	3	1020.	0.	0.	4004.	0.	0.	3777.	6100.	0.	** 1020.	227.	.62	11.	114.1	F	13.1	6.7
5	3	710.	332.	0.	4336.	332.	0.	4109.	6100.	0.	** 710.	227.	.67	13.	105.1	F	11.9	5.7
6	3	3820.	340.	800.	4676.	340.	800.	4449.	6150.	0.	** 3820.	227.	.72	15.	97.6	F	13.2	5.7
7	2	1220.	0.	0.	3876.	0.	0.	3649.	4400.	0.	** 1220.	227.	.83	21.	85.7	F	15.6	4.0
8	3	4810.	432.	688.	4308.	432.	688.	4081.	6100.	0.	** 4810.	227.	.67	13.	105.8	F	14.8	5.7
9	2	1370.	0.	0.	3620.	0.	0.	3393.	4000.	0.	** 1370.	227.	.85	23.	74.8	F	25.3	3.8
10	2	660.	324.	0.	3944.	324.	0.	3717.	4376.	24.	** 660.	227.	.85	23.	81.6	F	25.4	3.8
11	3	790.	792.	736.	4736.	792.	736.	4509.	5460.	640.	** 790.	227.	.83	21.	71.4	F	29.7	4.0
12	2	1460.	0.	0.	4000.	0.	0.	3773.	4100.	0.	** 1460.	227.	.92	29.	64.6	F	21.3	3.0
13	3	1400.	440.	0.	4440.	440.	0.	4213.	6048.	52.	** 1400.	227.	.70	14.	100.4	F	11.2	5.5
14	3	2600.	0.	532.	4440.	0.	532.	4213.	6048.	52.	** 2600.	227.	.70	14.	100.4	F	15.5	5.5
15	2	2010.	0.	0.	3908.	0.	0.	3681.	3900.	0.	** 2010.	219.	.94	32.	57.7	F	15.2	2.8
16	3	6120.	404.	692.	4312.	404.	691.	4085.	6100.	0.	** 6120.	219.	.67	13.	105.7	F	12.9	5.7
17	2	1240.	0.	0.	3620.	0.	0.	3394.	4300.	0.	** 1240.	219.	.79	19.	90.8	F	14.9	4.5
18	2	930.	432.	0.	4052.	432.	0.	3826.	4100.	0.	** 930.	219.	.93	31.	62.4	F	21.7	2.9
19	2	5330.	124.	580.	4176.	124.	549.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3596.	0.	0.	3401.	3800.	0.	0.	0.	.90	58.	29.6	D	22.3	2.6
21	2	1660.	336.	636.	3932.	336.	605.	3737.	4202.	98.	0.	0.	.89	58.	32.3	D	22.3	2.7
22	2	2270.	0.	0.	3296.	0.	0.	3133.	4400.	0.	0.	0.	.71	62.	25.3	C	20.6	4.3
23	2	3040.	128.	396.	3424.	128.	377.	3261.	4100.	0.	0.	0.	.80	61.	26.7	D	21.0	3.8
24	2	2190.	0.	0.	3028.	0.	0.	2884.	4200.	0.	0.	0.	.69	65.	22.2	C	19.2	6.1
25	3	2400.	76.	3104.	3104.	76.	2960.	2960.	6150.	0.	0.	0.	.48	65.	15.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 19.		74.7	15.4	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	543. VEH-HRS	641. PASS-HRS	10060. VEH-HRS	11871. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	28. VEH-HRS	33. PASS-HRS	325. VEH-HRS	384. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	572. VEH-HRS	674. PASS-HRS	10395. VEH-HRS	12266. PASS-HRS
TOTAL TRAV DISTANCE =	10298. VEH-MI.	12152. PASS-MI.	199002. VEH-MI.	234822. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		20. MPH.	
AVERAGE DENSITY =	75. VPMPL		69. VPMPL	
TOTAL FUEL =	679. GALLONS		13060. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		933. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	57.	28.17	10.71	0.16	1.01	0.18	1.35
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	57.	28.17	10.71	0.16	1.01	0.18	1.35

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2236.	0.	2236.	2236.	0.	2442.	3850.	0.	* 4785.	-206.	.63	13.	97.3	F	11.1	6.1
2	2	2070.	408.	0.	2644.	408.	0.	2850.	3839.	11.	** 2070.	-206.	.74	16.	88.4	F	11.3	5.5
3	3	2300.	1356.	352.	4000.	1356.	352.	4206.	5866.	234.	** 2300.	-206.	.72	15.	94.1	F	10.7	5.8
4	3	1020.	0.	0.	3648.	0.	0.	3854.	6100.	0.	** 1020.	-206.	.63	11.	112.0	F	13.3	6.6
5	3	710.	200.	0.	3848.	200.	0.	4054.	6100.	0.	** 710.	-206.	.66	13.	106.6	F	11.8	5.7
6	3	3820.	344.	680.	4192.	344.	680.	4398.	6150.	0.	** 3820.	-206.	.72	15.	99.0	F	13.0	5.8
7	2	1220.	0.	0.	3512.	0.	0.	3718.	4400.	0.	** 1220.	-206.	.85	22.	82.9	F	16.0	3.8
8	3	4810.	416.	592.	3928.	416.	592.	4134.	6100.	0.	** 4810.	-206.	.68	13.	104.4	F	15.0	5.6
9	2	1370.	0.	0.	3336.	0.	0.	3542.	4000.	0.	** 1370.	-206.	.89	26.	68.7	F	26.7	3.3
10	2	660.	252.	0.	3588.	252.	0.	3794.	4380.	20.	** 660.	-206.	.87	24.	78.7	F	26.0	3.6
11	3	790.	796.	744.	4384.	796.	744.	4590.	5468.	632.	** 790.	-206.	.84	22.	69.5	F	30.5	3.9
12	2	1460.	0.	0.	3640.	0.	0.	3846.	4100.	0.	** 1460.	-206.	.94	31.	61.6	F	21.8	2.8
13	3	1400.	420.	0.	4060.	420.	0.	4266.	6036.	64.	** 1400.	-206.	.71	14.	98.5	F	11.4	5.4
14	3	2600.	0.	620.	4060.	0.	620.	4266.	6036.	64.	** 2600.	-206.	.71	14.	98.5	F	15.9	5.4
15	2	2010.	0.	0.	3440.	0.	0.	3646.	3900.	0.	** 2010.	-206.	.93	31.	59.1	F	15.1	2.8
16	3	6120.	392.	704.	3832.	392.	704.	4038.	6100.	0.	** 6120.	-206.	.66	13.	107.0	F	12.8	5.8
17	2	1240.	0.	0.	3128.	0.	0.	3334.	4300.	0.	** 1240.	-206.	.78	18.	93.2	F	14.7	4.6
18	2	930.	488.	0.	3616.	488.	0.	3822.	4100.	0.	** 930.	-206.	.93	31.	62.6	F	21.7	2.9
19	2	5330.	128.	560.	3744.	128.	591.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	3184.	0.	0.	3359.	3800.	0.	0.	0.	.88	58.	29.0	D	22.2	2.7
21	2	1660.	384.	684.	3568.	384.	718.	3743.	4144.	156.	0.	0.	.90	57.	32.7	D	22.5	2.5
22	2	2270.	0.	0.	2884.	0.	0.	3026.	4400.	0.	0.	0.	.69	62.	24.4	C	20.6	4.4
23	2	3040.	92.	352.	2976.	92.	369.	3118.	4100.	0.	0.	0.	.76	62.	25.3	C	20.8	4.1
24	2	2190.	0.	0.	2624.	0.	0.	2749.	4200.	0.	0.	0.	.65	65.	21.1	C	19.2	6.1
25	3	2400.	72.	2696.	2696.	72.	2821.	2821.	6150.	0.	0.	0.	.46	65.	14.5	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 20. 72.2 15.6 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	528. VEH-HRS	623. PASS-HRS	10588. VEH-HRS	12494. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	332. VEH-HRS	392. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	535. VEH-HRS	631. PASS-HRS	10930. VEH-HRS	12898. PASS-HRS
TOTAL TRAV DISTANCE =	10329. VEH-MI.	12188. PASS-MI.	209331. VEH-MI.	247010. PASS-MI.
AVERAGE SYSTEM SPEED =	19. MPH.		20. MPH.	
AVERAGE DENSITY =	72. VPMPL		69. VPMPL	
TOTAL FUEL =	667. GALLONS		13727. GALLONS	
TOTAL EMISSIONS =	49. KILOGRAMS		982. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	0.	7.10	2.70	0.04	0.25	0.05	0.34
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	0.	7.10	2.70	0.04	0.25	0.05	0.34

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2040.	0.	2040.	2040.	0.	2598.	3850.	0.	* 115.	-558.	.67	22.	58.8	F	13.9	4.1
2	2	2070.	452.	0.	2492.	452.	0.	3050.	3841.	9.	** 2070.	-558.	.79	19.	80.3	F	11.7	4.8
3	3	2300.	1308.	312.	3800.	1308.	312.	4358.	5896.	204.	** 2300.	-558.	.74	16.	91.0	F	10.9	5.5
4	3	1020.	0.	0.	3488.	0.	0.	4046.	6100.	0.	** 1020.	-558.	.66	13.	106.8	F	14.0	6.3
5	3	710.	128.	0.	3616.	128.	0.	4174.	6100.	0.	** 710.	-558.	.68	13.	103.3	F	12.1	5.6
6	3	3820.	392.	616.	4008.	392.	616.	4566.	6150.	0.	** 3820.	-558.	.74	16.	94.4	F	13.3	5.5
7	2	1220.	0.	0.	3392.	0.	0.	3950.	4400.	0.	** 1220.	-558.	.90	27.	73.4	F	17.4	3.2
8	3	4810.	428.	688.	3820.	428.	688.	4378.	6100.	0.	** 4810.	-558.	.72	15.	97.7	F	16.2	5.3
9	2	1370.	0.	0.	3132.	0.	0.	3690.	4000.	0.	** 1370.	-558.	.92	29.	62.7	F	28.2	3.0
10	2	660.	244.	0.	3376.	244.	0.	3934.	4384.	16.	** 660.	-558.	.90	27.	73.2	F	27.1	3.2
11	3	790.	688.	608.	4064.	688.	608.	4622.	5576.	524.	** 790.	-558.	.83	21.	72.5	F	29.9	4.0
12	2	1460.	0.	0.	3456.	0.	0.	4014.	4100.	0.	** 1460.	-558.	.98	37.	54.8	F	22.8	2.4
13	3	1400.	344.	0.	3800.	344.	0.	4358.	6048.	52.	** 1400.	-558.	.72	15.	96.4	F	11.6	5.2
14	3	2600.	0.	572.	3800.	0.	572.	4358.	6048.	52.	** 2600.	-558.	.72	15.	96.4	F	16.3	5.2
15	2	2010.	0.	0.	3228.	0.	0.	3786.	3900.	0.	** 2010.	-558.	.97	35.	53.4	F	15.4	2.5
16	3	6120.	440.	688.	3668.	440.	688.	4226.	6100.	0.	** 6120.	-558.	.69	14.	101.9	F	13.4	5.5
17	2	1240.	0.	0.	2980.	0.	0.	3538.	4300.	0.	** 1240.	-558.	.82	21.	84.9	F	15.5	4.1
18	2	930.	312.	0.	3292.	312.	0.	3850.	4100.	0.	** 930.	-558.	.94	31.	61.5	F	21.8	2.8
19	2	5330.	100.	572.	3392.	100.	666.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	2820.	0.	0.	3284.	3800.	0.	0.	0.	.86	59.	28.0	D	22.0	2.9
21	2	1660.	364.	600.	3184.	364.	687.	3648.	4211.	89.	0.	0.	.87	59.	31.1	D	22.0	2.9
22	2	2270.	0.	0.	2584.	0.	0.	2960.	4400.	0.	0.	0.	.67	62.	23.9	C	20.6	4.4
23	2	3040.	112.	364.	2696.	112.	415.	3072.	4100.	0.	0.	0.	.75	62.	24.8	C	20.6	4.4
24	2	2190.	0.	0.	2332.	0.	0.	2657.	4200.	0.	0.	0.	.63	65.	20.4	C	19.2	6.1
25	3	2400.	44.	2376.	2376.	44.	2701.	2701.	6150.	0.	0.	0.	.44	65.	13.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 22.	65.1		16.2	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	479. VEH-HRS	565. PASS-HRS	11067. VEH-HRS	13059. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	332. VEH-HRS	392. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	479. VEH-HRS	565. PASS-HRS	11409. VEH-HRS	13462. PASS-HRS
TOTAL TRAV DISTANCE =	10500. VEH-MI.	12390. PASS-MI.	219831. VEH-MI.	259401. PASS-MI.
AVERAGE SYSTEM SPEED =	22. MPH.		20. MPH.	
AVERAGE DENSITY =	65. VPMPL		69. VPMPL	
TOTAL FUEL =	647. GALLONS		14374. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		1028. KILOGRAMS	

QUEUE SPLIT SECTION 15

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1928.	0.	1928.	1928.	0.	1928.	3850.	0.	0.	0.	.50	50.	19.3	C	17.4	2.3
2	2	2070.	444.	0.	2372.	444.	0.	2372.	3841.	9.	0.	0.	.62	46.	25.6	C	15.6	2.4
3	3	2300.	1320.	324.	3692.	1320.	324.	3692.	5893.	207.	0.	0.	.63	36.	34.5	D	13.0	3.1
4	3	1020.	0.	0.	3368.	0.	0.	3368.	6100.	0.	0.	0.	.55	24.	47.7	F	17.4	5.3
5	3	710.	144.	0.	3512.	144.	0.	3512.	6100.	0.	0.	0.	.58	22.	53.4	F	13.9	4.7
6	3	3820.	276.	604.	3788.	276.	604.	4880.	6150.	0.	* 1386.	-1092.	.79	20.	80.8	F	14.1	4.8
7	2	1220.	0.	0.	3184.	0.	0.	4276.	4400.	0.	** 1220.	-1092.	.97	36.	60.1	F	18.7	2.5
8	3	4810.	396.	796.	3580.	396.	796.	4672.	6100.	0.	** 4810.	-1092.	.77	17.	89.7	F	17.3	4.8
9	2	1370.	0.	0.	2784.	0.	0.	3876.	4000.	0.	** 1370.	-1092.	.97	35.	55.1	F	28.2	2.5
10	2	660.	276.	0.	3060.	276.	0.	4152.	4376.	24.	** 660.	-1092.	.95	33.	63.9	F	28.3	2.7
11	3	790.	568.	664.	3628.	568.	664.	4720.	5608.	492.	** 790.	-1092.	.84	22.	70.9	F	30.6	3.9
12	2	1460.	0.	0.	2964.	0.	0.	4056.	4100.	0.	** 1460.	-1092.	.99	38.	53.0	F	23.0	2.3
13	3	1400.	324.	0.	3288.	324.	0.	4380.	6052.	48.	** 1400.	-1092.	.72	15.	96.0	F	11.6	5.2
14	3	2600.	0.	480.	3288.	0.	480.	4380.	6052.	48.	** 2600.	-1092.	.72	15.	96.0	F	16.4	5.2
15	2	2010.	0.	0.	2808.	0.	0.	3900.	3900.	0.	** 2010.	-1092.	1.00	40.	48.8	F	15.5	2.2
16	3	6120.	344.	612.	3152.	344.	824.	4494.	6100.	0.	* 4579.	-250.	.74	17.	86.1	F	14.6	5.0
17	2	1240.	0.	0.	2540.	0.	0.	3670.	4300.	0.	** 1240.	-250.	.85	23.	79.5	F	16.2	3.7
18	2	930.	200.	0.	2740.	200.	0.	3870.	4100.	0.	** 930.	-250.	.94	32.	60.6	F	21.9	2.8
19	2	5330.	80.	488.	2820.	80.	684.	3950.	3950.	0.	0.	0.	1.00	52.	38.3	E	23.9	2.0
20	2	2830.	0.	0.	2332.	0.	0.	3266.	3800.	0.	0.	0.	.86	59.	27.8	D	22.0	2.9
21	2	1660.	280.	460.	2612.	280.	626.	3546.	4300.	0.	0.	0.	.82	60.	29.7	D	21.7	3.1
22	2	2270.	0.	0.	2152.	0.	0.	2921.	4400.	0.	0.	0.	.66	62.	23.6	C	20.6	4.4
23	2	3040.	104.	336.	2256.	104.	450.	3025.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
24	2	2190.	0.	0.	1920.	0.	0.	2575.	4200.	0.	0.	0.	.61	65.	19.8	C	19.2	6.1
25	3	2400.	36.	1956.	1956.	36.	2611.	2611.	6150.	0.	0.	0.	.42	65.	13.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 27.	51.3		17.4	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	386. VEH-HRS	455. PASS-HRS	11453. VEH-HRS	13514. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	332. VEH-HRS	392. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	386. VEH-HRS	455. PASS-HRS	11794. VEH-HRS	13917. PASS-HRS
TOTAL TRAV DISTANCE =	10493. VEH-MI.	12382. PASS-MI.	230324. VEH-MI.	271783. PASS-MI.
AVERAGE SYSTEM SPEED =	27. MPH.		20. MPH.	
AVERAGE DENSITY =	51. VPMPL		68. VPMPL	
TOTAL FUEL =	602. GALLONS		14976. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		1069. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
1	202.	238.	0.	0.	202.	238.	10937.	12905.	54.1	570.	2.	28.	9.	14:00
2	248.	292.	0.	0.	248.	292.	11362.	13407.	45.9	601.	2.	28.	9.	14:15
3	281.	332.	0.	0.	281.	332.	10844.	12795.	38.5	589.	2.	29.	9.	14:30
4	341.	402.	4.	5.	345.	407.	11234.	13256.	32.6	628.	2.	30.	9.	14:45
5	392.	463.	2.	3.	395.	466.	10079.	11893.	25.5	603.	3.	31.	8.	15:00
6	428.	505.	2.	2.	429.	507.	10055.	11865.	23.4	616.	3.	32.	8.	15:15
7	461.	544.	2.	2.	463.	546.	9817.	11585.	21.2	618.	3.	32.	8.	15:30
8	501.	591.	0.	0.	501.	591.	10181.	12014.	20.3	656.	3.	34.	8.	15:45
9	563.	664.	0.	0.	563.	664.	9363.	11048.	16.6	647.	4.	35.	7.	16:00
10	605.	714.	0.	0.	605.	714.	9268.	10936.	15.3	664.	4.	37.	7.	16:15
11	669.	790.	19.	22.	688.	812.	8805.	10390.	12.8	685.	5.	38.	7.	16:30
12	653.	771.	36.	43.	690.	814.	9057.	10688.	13.1	691.	5.	39.	7.	16:45
13	653.	771.	31.	37.	685.	808.	9008.	10629.	13.2	687.	5.	39.	7.	17:00
14	626.	739.	29.	35.	655.	773.	9307.	10983.	14.2	684.	4.	39.	8.	17:15
15	651.	768.	31.	37.	682.	805.	9033.	10659.	13.2	687.	5.	39.	7.	17:30
16	588.	694.	33.	39.	621.	733.	9753.	11509.	15.7	691.	4.	39.	8.	17:45
17	558.	659.	36.	43.	595.	702.	10138.	11963.	17.1	689.	4.	39.	8.	18:00
18	567.	669.	39.	46.	606.	715.	10092.	11909.	16.7	690.	4.	39.	8.	18:15
19	530.	625.	41.	49.	571.	674.	10370.	12237.	18.2	686.	4.	39.	8.	18:30
20	543.	641.	28.	33.	572.	674.	10298.	12152.	18.0	679.	4.	38.	8.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	528.	623.	7.	8.	535.	631.	10329.	12188.	19.3	667.	4.	37.	8.	19:00
22	479.	565.	0.	0.	479.	565.	10500.	12390.	21.9	647.	3.	35.	8.	19:15
23	386.	455.	0.	0.	386.	455.	10493.	12382.	27.2	602.	3.	31.	7.	19:30
TOTAL	11453.	13514.	342.	403.	11794.	13917.	230324.	271783.	20.1	14976.	81.	808.	180.	

Opening Year (2025) No Build
Northbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2152.	24.	2152.	2152.	24.	2152.	4400.	0.	0.	0.	.49	62.	17.4	B	13.6	4.8
2	2	1970.	0.	0.	2128.	0.	0.	2128.	4100.	0.	0.	0.	.52	62.	17.2	B	13.6	4.8
3	2	1830.	172.	16.	2300.	172.	16.	2300.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
4	2	2010.	0.	0.	2284.	0.	0.	2284.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
5	3	2445.	328.	88.	2612.	328.	88.	2612.	5600.	0.	0.	0.	.47	62.	14.0	B	13.6	4.8
6	2	1890.	0.	0.	2524.	0.	0.	2524.	4100.	0.	0.	0.	.62	62.	20.4	C	13.6	4.8
7	3	5320.	292.	128.	2816.	292.	128.	2816.	5600.	0.	0.	0.	.50	62.	15.1	B	13.6	4.8
8	2	880.	0.	0.	2688.	0.	0.	2688.	3900.	0.	0.	0.	.69	62.	21.7	C	14.9	4.8
9	2	1125.	84.	0.	2772.	84.	0.	2772.	3900.	0.	0.	0.	.71	62.	22.4	C	19.9	4.8
10	2	6320.	244.	80.	3016.	244.	80.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	19.9	4.8
11	2	2050.	0.	0.	2936.	0.	0.	2936.	4100.	0.	0.	0.	.72	62.	23.7	C	19.9	4.8
12	2	2560.	208.	0.	3144.	208.	0.	3144.	4400.	0.	0.	0.	.71	62.	25.4	C	17.2	4.7
13	2	1400.	0.	160.	3144.	0.	160.	3144.	4400.	0.	0.	0.	.71	62.	25.4	C	32.3	4.7
14	2	1320.	0.	0.	2984.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	14.9	4.8
15	3	540.	368.	536.	3352.	368.	536.	3352.	5292.	308.	0.	0.	.63	62.	18.0	C	12.6	4.8
16	2	1230.	0.	0.	2816.	0.	0.	2816.	4400.	0.	0.	0.	.64	62.	22.7	C	19.9	4.8
17	2	890.	396.	0.	3212.	396.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	20.0	4.7
18	2	4840.	72.	416.	3284.	72.	416.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	17.3	4.6
19	2	530.	0.	0.	2868.	0.	0.	2868.	3800.	0.	0.	0.	.75	62.	23.1	C	19.9	4.8
20	2	1040.	508.	0.	3376.	508.	0.	3376.	4392.	8.	0.	0.	.77	61.	27.4	D	20.2	4.5
21	3	2810.	280.	276.	3656.	280.	276.	3656.	5574.	26.	0.	0.	.66	62.	19.7	C	24.1	4.8
22	2	1850.	0.	0.	3380.	0.	0.	3380.	4400.	0.	0.	0.	.77	62.	27.5	D	17.4	4.5
23	3	2390.	204.	216.	3584.	204.	216.	3584.	5588.	12.	0.	0.	.64	62.	19.3	C	24.1	4.8
24	3	960.	0.	1976.	3368.	0.	1500.	3368.	5600.	0.	0.	0.	.60	62.	18.1	C	17.2	4.8
25	2	1400.	0.	1392.	1392.	0.	1392.	1392.	3600.	0.	0.	0.	.39	62.	11.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.77		LOWEST LOS = D	AVG = 62.	20.4		16.6	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	132. VEH-HRS	150. PASS-HRS	132. VEH-HRS	150. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	15. VEH-HRS	17. PASS-HRS	15. VEH-HRS	17. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	147. VEH-HRS	167. PASS-HRS	147. VEH-HRS	167. PASS-HRS
TOTAL TRAV DISTANCE =	8200. VEH-MI.	9282. PASS-MI.	8200. VEH-MI.	9282. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		20. VPMPL	
TOTAL FUEL =	499. GALLONS		499. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		40. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	119.	14.87	5.63	0.09	0.53	0.09	0.71

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2740.	20.	2740.	2740.	20.	2740.	4400.	0.	0.	0.	.62	62.	22.1	C	13.6	4.8
2	2	1970.	0.	0.	2720.	0.	0.	2720.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
3	2	1830.	200.	28.	2920.	200.	28.	2920.	4100.	0.	0.	0.	.71	62.	23.5	C	13.6	4.8
4	2	2010.	0.	0.	2892.	0.	0.	2892.	4100.	0.	0.	0.	.71	62.	23.3	C	13.6	4.8
5	3	2445.	440.	112.	3332.	440.	112.	3332.	5600.	0.	0.	0.	.59	62.	17.9	B	13.6	4.8
6	2	1890.	0.	0.	3220.	0.	0.	3220.	4100.	0.	0.	0.	.79	61.	26.3	D	13.8	4.4
7	3	5320.	300.	176.	3520.	300.	176.	3520.	5600.	0.	0.	0.	.63	62.	18.9	C	13.6	4.8
8	2	880.	0.	0.	3344.	0.	0.	3344.	3900.	0.	0.	0.	.86	60.	28.1	D	15.7	3.5
9	2	1125.	112.	0.	3456.	112.	0.	3456.	3900.	0.	0.	0.	.89	58.	29.6	D	21.3	3.2
10	2	6320.	288.	100.	3744.	288.	100.	3744.	4100.	0.	0.	0.	.91	57.	32.7	D	21.7	2.9
11	2	2050.	0.	0.	3644.	0.	0.	3644.	4100.	0.	0.	0.	.89	58.	31.2	D	21.4	3.2
12	2	2560.	240.	0.	3884.	240.	0.	3884.	4400.	0.	0.	0.	.88	59.	33.2	D	18.3	3.3
13	2	1400.	0.	168.	3884.	0.	168.	3884.	4400.	0.	0.	0.	.88	59.	33.2	D	35.2	3.3
14	2	1320.	0.	0.	3716.	0.	0.	3716.	4400.	0.	0.	0.	.84	60.	31.0	D	15.6	3.6
15	3	540.	364.	728.	4080.	364.	728.	4080.	5300.	300.	0.	0.	.77	62.	21.9	C	12.6	4.8
16	2	1230.	0.	0.	3352.	0.	0.	3352.	4400.	0.	0.	0.	.76	62.	27.2	D	20.1	4.5
17	2	890.	428.	0.	3780.	428.	0.	3780.	4400.	0.	0.	0.	.86	59.	31.8	D	21.1	3.5
18	2	4840.	84.	540.	3864.	84.	540.	3864.	4400.	0.	0.	0.	.88	59.	32.9	D	18.3	3.3
19	2	530.	0.	0.	3324.	0.	0.	3324.	3800.	0.	0.	0.	.87	59.	28.2	D	21.2	3.3
20	2	1040.	488.	0.	3812.	488.	0.	3812.	4390.	10.	0.	0.	.87	59.	32.2	D	21.2	3.4
21	3	2810.	336.	372.	4148.	336.	372.	4148.	5568.	32.	0.	0.	.74	62.	22.3	C	24.1	4.8
22	2	1850.	0.	0.	3776.	0.	0.	3776.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	204.	316.	3980.	204.	316.	3980.	5568.	32.	0.	0.	.71	62.	21.4	C	24.1	4.8
24	3	960.	0.	1948.	3664.	0.	1500.	3664.	5594.	6.	0.	0.	.65	62.	19.7	C	17.2	4.8
25	2	1400.	0.	1716.	1716.	0.	1716.	1716.	3600.	0.	0.	0.	.48	62.	13.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.91		LOWEST LOS = D	AVG = 60.	25.7		16.9	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	166. VEH-HRS	188. PASS-HRS	298. VEH-HRS	337. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	44. VEH-HRS	50. PASS-HRS	59. VEH-HRS	66. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	209. VEH-HRS	237. PASS-HRS	357. VEH-HRS	404. PASS-HRS
TOTAL TRAV DISTANCE =	10003. VEH-MI.	11323. PASS-MI.	18202. VEH-MI.	20605. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		61. MPH.	
AVERAGE DENSITY =	26. VPMPL		23. VPMPL	
TOTAL FUEL =	608. GALLONS		1107. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		83. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	231.	43.75	16.57	0.25	1.57	0.27	2.09

```
QUEUE COLLISION IN SECTION   9 T2 =0.076
QUEUE COLLISION IN SECTION   8 T2 =0.055
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3612.	28.	3612.	3612.	28.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	14.0	3.9
2	2	1970.	0.	0.	3584.	0.	0.	3584.	4100.	0.	0.	0.	.87	59.	30.4	D	14.3	3.4
3	2	1830.	272.	132.	3856.	272.	132.	3856.	4100.	0.	0.	0.	.94	56.	34.6	D	15.0	2.6
4	2	2010.	0.	0.	3724.	0.	0.	3724.	4100.	0.	0.	0.	.91	57.	32.4	D	14.6	3.0
5	3	2445.	484.	136.	4208.	484.	136.	4208.	5600.	0.	0.	0.	.75	62.	22.6	C	13.6	4.8
6	2	1890.	0.	0.	4072.	0.	0.	4072.	4100.	0.	0.	0.	.99	52.	39.1	E	15.6	2.3
7	3	5320.	328.	252.	4400.	328.	252.	3916.	5600.	0.	* 2762.	484.	.70	36.	36.2	F	12.9	5.0
8	2	880.	0.	0.	4148.	0.	0.	3664.	3900.	0.	** 880.	236.	.94	34.	54.5	F	15.1	3.0
9	2	1125.	156.	0.	4304.	156.	0.	3820.	3900.	0.	** 1125.	80.	.98	38.	49.7	F	22.0	2.7
10	2	6320.	280.	144.	4584.	280.	129.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	4440.	0.	0.	3971.	4100.	0.	0.	0.	.97	54.	36.8	E	22.5	2.4
12	2	2560.	300.	0.	4740.	300.	0.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	19.6	2.4
13	2	1400.	0.	236.	4740.	0.	213.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	38.9	2.4
14	2	1320.	0.	0.	4504.	0.	0.	4059.	4400.	0.	0.	0.	.92	57.	35.8	E	16.3	2.8
15	3	540.	428.	968.	4932.	428.	881.	4487.	5256.	344.	0.	0.	.85	62.	24.1	C	12.6	4.8
16	2	1230.	0.	0.	3964.	0.	0.	3606.	4400.	0.	0.	0.	.82	61.	29.8	D	20.6	4.0
17	2	890.	428.	0.	4392.	428.	0.	4034.	4400.	0.	0.	0.	.92	57.	35.4	E	21.7	2.9
18	2	4840.	68.	676.	4460.	68.	622.	4102.	4400.	0.	0.	0.	.93	56.	36.5	E	19.0	2.7
19	2	530.	0.	0.	3784.	0.	0.	3480.	3800.	0.	0.	0.	.92	57.	30.5	D	21.7	2.9
20	2	1040.	492.	0.	4276.	492.	0.	3972.	4385.	15.	0.	0.	.91	58.	34.5	D	21.6	3.0
21	3	2810.	392.	560.	4668.	392.	524.	4364.	5556.	44.	0.	0.	.79	62.	23.5	C	24.1	4.8
22	2	1850.	0.	0.	4108.	0.	0.	3840.	4400.	0.	0.	0.	.87	59.	32.6	D	18.2	3.4
23	3	2390.	180.	312.	4288.	180.	293.	4020.	5561.	39.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	2148.	3976.	0.	1500.	3727.	5592.	8.	0.	0.	.67	62.	20.0	C	17.2	4.8
25	2	1400.	0.	1828.	1828.	0.	1714.	1714.	3600.	0.	0.	0.	.48	62.	13.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 53.	32.9		17.1	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	216. VEH-HRS	245. PASS-HRS	514. VEH-HRS	582. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	74. VEH-HRS	84. PASS-HRS	132. VEH-HRS	150. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	290. VEH-HRS	328. PASS-HRS	647. VEH-HRS	732. PASS-HRS
TOTAL TRAV DISTANCE =	11559. VEH-MI.	13084. PASS-MI.	29761. VEH-MI.	33689. PASS-MI.
AVERAGE SYSTEM SPEED =	40. MPH.		58. MPH.	
AVERAGE DENSITY =	33. VPMPL		26. VPMPL	
TOTAL FUEL =	705. GALLONS		1812. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		127. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	359.	73.80	27.95	0.43	2.64	0.46	3.53

QUEUE COLLISION IN SECTION 6 T2 =0.245

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3732.	56.	3732.	3732.	56.	3732.	4400.	0.	0.	0.	.85	60.	31.2	D	14.2	3.6
2	2	1970.	0.	0.	3676.	0.	0.	3676.	4100.	0.	0.	0.	.90	58.	31.7	D	14.5	3.1
3	2	1830.	364.	284.	4040.	364.	284.	4040.	4100.	0.	0.	0.	.99	53.	38.3	E	15.5	2.4
4	2	2010.	0.	0.	3756.	0.	0.	3756.	4100.	0.	0.	0.	.92	57.	32.9	D	14.7	2.9
5	3	2445.	872.	184.	4628.	872.	184.	3788.	5533.	67.	* 2293.	840.	.68	38.	33.2	F	13.4	4.1
6	2	1890.	0.	0.	4444.	0.	0.	3604.	4100.	0.	** 1890.	496.	.88	47.	38.6	F	15.3	2.5
7	3	5320.	340.	332.	4784.	340.	308.	3944.	5600.	0.	** 5320.	496.	.70	17.	76.9	F	11.4	5.6
8	2	880.	0.	0.	4452.	0.	0.	3636.	3900.	0.	** 880.	264.	.93	31.	59.5	F	14.7	3.2
9	2	1125.	148.	0.	4600.	148.	0.	3784.	3900.	0.	** 1125.	116.	.97	35.	53.5	F	21.7	2.8
10	2	6320.	316.	208.	4916.	316.	173.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	4708.	0.	0.	3927.	4100.	0.	0.	0.	.96	55.	35.9	E	22.4	2.4
12	2	2560.	344.	0.	5052.	344.	0.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	19.5	2.4
13	2	1400.	0.	404.	5052.	0.	342.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	38.9	2.4
14	2	1320.	0.	0.	4648.	0.	0.	3929.	4400.	0.	0.	0.	.89	58.	33.8	D	16.0	3.2
15	3	540.	484.	1168.	5132.	484.	1005.	4413.	5228.	372.	0.	0.	.84	62.	23.7	C	12.6	4.8
16	2	1230.	0.	0.	3964.	0.	0.	3408.	4400.	0.	0.	0.	.77	61.	27.7	D	20.2	4.4
17	2	890.	424.	0.	4388.	424.	0.	3832.	4400.	0.	0.	0.	.87	59.	32.5	D	21.2	3.4
18	2	4840.	76.	760.	4464.	76.	665.	3908.	4400.	0.	0.	0.	.89	58.	33.5	D	18.4	3.2
19	2	530.	0.	0.	3704.	0.	0.	3244.	3800.	0.	0.	0.	.85	60.	27.2	D	21.0	3.5
20	2	1040.	532.	0.	4236.	532.	0.	3776.	4380.	20.	0.	0.	.86	59.	31.8	D	21.1	3.5
21	3	2810.	408.	740.	4644.	408.	666.	4184.	5539.	61.	0.	0.	.76	62.	22.5	C	24.1	4.8
22	2	1850.	0.	0.	3904.	0.	0.	3518.	4400.	0.	0.	0.	.80	61.	28.8	D	17.6	4.2
23	3	2390.	232.	192.	4136.	232.	174.	3750.	5563.	37.	0.	0.	.67	62.	20.2	C	24.1	4.8
24	3	960.	0.	2312.	3944.	0.	1500.	3575.	5596.	4.	0.	0.	.64	62.	19.2	C	17.2	4.8
25	2	1400.	0.	1632.	1632.	0.	1480.	1480.	3600.	0.	0.	0.	.41	62.	11.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 45.	36.6		16.7	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	251. VEH-HRS	284. PASS-HRS	765. VEH-HRS	866. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	108. VEH-HRS	123. PASS-HRS	241. VEH-HRS	273. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	360. VEH-HRS	407. PASS-HRS	1006. VEH-HRS	1139. PASS-HRS
TOTAL TRAV DISTANCE =	11419. VEH-MI.	12926. PASS-MI.	41180. VEH-MI.	46615. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		54. MPH.	
AVERAGE DENSITY =	37. VPMPL		29. VPMPL	
TOTAL FUEL =	723. GALLONS		2535. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		172. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	508.	108.46	41.08	0.63	3.88	0.68	5.19

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1784.	76.	1784.	1784.	76.	1784.	4400.	0.	0.	0.	.41	62.	14.4	B	13.6	4.8
2	2	1970.	0.	0.	1708.	0.	0.	1708.	4100.	0.	0.	0.	.42	62.	13.8	B	13.6	4.8
3	2	1830.	628.	388.	2336.	628.	388.	2336.	3958.	142.	0.	0.	.59	62.	18.8	C	13.6	4.8
4	2	2010.	0.	0.	1948.	0.	0.	1948.	4100.	0.	0.	0.	.48	62.	15.7	B	13.6	4.8
5	3	2445.	1716.	272.	3664.	1500.	256.	3750.	5463.	137.	* 490.	-302.	.69	20.	62.6	F	11.7	5.5
6	2	1890.	0.	0.	3392.	0.	0.	3494.	4100.	0.	** 1890.	-302.	.85	23.	76.0	F	12.5	4.1
7	3	5320.	416.	416.	3808.	416.	394.	3910.	5600.	0.	** 5320.	-302.	.70	14.	92.7	F	10.9	5.9
8	2	880.	0.	0.	3392.	0.	0.	3516.	3900.	0.	** 880.	-302.	.90	27.	64.4	F	14.1	3.5
9	2	1125.	148.	0.	3540.	148.	0.	3664.	3900.	0.	** 1125.	-302.	.94	31.	58.4	F	20.9	3.1
10	2	6320.	436.	256.	3976.	436.	264.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	3720.	0.	0.	3836.	4100.	0.	0.	0.	.94	56.	34.3	D	22.0	2.6
12	2	2560.	376.	0.	4096.	376.	0.	4212.	4400.	0.	0.	0.	.96	55.	38.5	E	19.4	2.4
13	2	1400.	0.	396.	4096.	0.	407.	4212.	4400.	0.	0.	0.	.96	55.	38.5	E	38.2	2.4
14	2	1320.	0.	0.	3700.	0.	0.	3805.	4400.	0.	0.	0.	.86	59.	32.1	D	15.7	3.4
15	3	540.	660.	1120.	4360.	660.	1147.	4465.	5108.	492.	0.	0.	.87	62.	24.0	C	12.6	4.8
16	2	1230.	0.	0.	3240.	0.	0.	3318.	4400.	0.	0.	0.	.75	62.	26.9	D	20.1	4.6
17	2	890.	496.	0.	3736.	496.	0.	3814.	4400.	0.	0.	0.	.87	59.	32.2	D	21.1	3.4
18	2	4840.	112.	724.	3848.	112.	739.	3926.	4400.	0.	0.	0.	.89	58.	33.7	D	18.5	3.2
19	2	530.	0.	0.	3124.	0.	0.	3188.	3800.	0.	0.	0.	.84	60.	26.5	D	20.9	3.7
20	2	1040.	648.	0.	3772.	648.	0.	3836.	4380.	20.	0.	0.	.88	59.	32.6	D	21.2	3.3
21	3	2810.	488.	716.	4260.	488.	726.	4324.	5533.	67.	0.	0.	.78	62.	23.2	C	24.1	4.8
22	2	1850.	0.	0.	3544.	0.	0.	3597.	4400.	0.	0.	0.	.82	61.	29.7	D	17.7	4.0
23	3	2390.	304.	168.	3848.	304.	170.	3901.	5542.	58.	0.	0.	.70	62.	21.0	C	24.1	4.8
24	3	960.	0.	1852.	3680.	0.	1500.	3731.	5589.	11.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	1828.	1828.	0.	1853.	1853.	3600.	0.	0.	0.	.51	62.	14.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 39.	35.3		16.7	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	246. VEH-HRS	278. PASS-HRS	1011. VEH-HRS	1144. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	7. VEH-HRS	8. PASS-HRS
OFF-RAMP DELAY =	139. VEH-HRS	157. PASS-HRS	380. VEH-HRS	430. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	391. VEH-HRS	443. PASS-HRS	1397. VEH-HRS	1582. PASS-HRS
TOTAL TRAV DISTANCE =	9583. VEH-MI.	10848. PASS-MI.	50763. VEH-MI.	57463. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		50. MPH.	
AVERAGE DENSITY =	35. VPMPL		30. VPMPL	
TOTAL FUEL =	630. GALLONS		3165. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		217. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	54.	6.75	2.56	0.04	0.24	0.04	0.32
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	54.	6.75	2.56	0.04	0.24	0.04	0.32
OFF-RAMP	11	OUTPUT POINT	603.	138.88	52.60	0.81	4.97	0.87	6.64

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1756.	100.	1756.	1756.	100.	1756.	4400.	0.	0.	0.	.40	62.	14.2	B	13.6	4.8
2	2	1970.	0.	0.	1656.	0.	0.	1656.	4100.	0.	0.	0.	.40	62.	13.4	B	13.6	4.8
3	2	1830.	728.	340.	2384.	728.	340.	2384.	3958.	142.	0.	0.	.60	62.	19.2	C	13.6	4.8
4	2	2010.	0.	0.	2044.	0.	0.	2044.	4100.	0.	0.	0.	.50	62.	16.5	B	13.6	4.8
5	3	2445.	1544.	364.	3588.	1500.	355.	3544.	5392.	208.	0.	0.	.66	46.	25.6	C	13.2	4.9
6	2	1890.	0.	0.	3224.	0.	0.	3281.	4100.	0.	* 1785.	-91.	.80	19.	84.6	F	11.8	4.7
7	3	5320.	628.	568.	3852.	628.	557.	3909.	5600.	0.	** 5320.	-91.	.70	14.	92.7	F	10.9	5.9
8	2	880.	0.	0.	3284.	0.	0.	3352.	3900.	0.	** 880.	-91.	.86	24.	71.1	F	13.5	4.0
9	2	1125.	208.	0.	3492.	208.	0.	3560.	3900.	0.	** 1125.	-91.	.91	28.	62.6	F	20.2	3.4
10	2	6320.	540.	336.	4032.	540.	339.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	3696.	0.	0.	3761.	4100.	0.	0.	0.	.92	57.	33.0	D	21.8	2.9
12	2	2560.	500.	0.	4196.	500.	0.	4261.	4400.	0.	0.	0.	.97	54.	39.5	E	19.5	2.4
13	2	1400.	0.	276.	4196.	0.	285.	4261.	4400.	0.	0.	0.	.97	54.	39.5	E	38.8	2.4
14	2	1320.	0.	0.	3920.	0.	0.	3977.	4400.	0.	0.	0.	.90	58.	34.5	D	16.1	3.0
15	3	540.	872.	1160.	4792.	872.	1176.	4849.	4940.	660.	0.	0.	.98	53.	30.5	D	14.3	2.4
16	2	1230.	0.	0.	3632.	0.	0.	3673.	4400.	0.	0.	0.	.83	60.	30.5	D	20.8	3.7
17	2	890.	584.	0.	4216.	584.	0.	4244.	4400.	0.	* 378.	13.	.96	48.	44.0	F	22.3	2.5
18	2	4840.	156.	748.	4372.	156.	755.	4400.	4400.	0.	0.	0.	1.00	52.	42.7	E	20.0	2.3
19	2	530.	0.	0.	3624.	0.	0.	3645.	3800.	0.	0.	0.	.96	55.	33.4	D	22.4	2.4
20	2	1040.	688.	0.	4312.	688.	0.	4333.	4372.	28.	0.	0.	.99	52.	41.5	E	22.9	2.3
21	3	2810.	752.	892.	5064.	752.	895.	5085.	5233.	367.	0.	0.	.97	54.	31.6	D	29.0	2.4
22	2	1850.	0.	0.	4172.	0.	0.	4190.	4400.	0.	0.	0.	.95	55.	38.1	E	19.3	2.4
23	3	2390.	300.	196.	4472.	300.	196.	4490.	5524.	76.	0.	0.	.81	62.	24.1	C	24.1	4.8
24	3	960.	0.	1676.	4276.	0.	1500.	4294.	5574.	26.	0.	0.	.77	62.	23.1	C	17.2	4.8
25	2	1400.	0.	2600.	2600.	0.	2604.	2604.	3600.	0.	0.	0.	.72	62.	21.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 40.	36.4		17.3	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	251. VEH-HRS	284. PASS-HRS	1262. VEH-HRS	1428. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	15. VEH-HRS	17. PASS-HRS	22. VEH-HRS	24. PASS-HRS
OFF-RAMP DELAY =	157. VEH-HRS	177. PASS-HRS	536. VEH-HRS	607. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	422. VEH-HRS	478. PASS-HRS	1820. VEH-HRS	2060. PASS-HRS
TOTAL TRAV DISTANCE =	10036. VEH-MI.	11361. PASS-MI.	60799. VEH-MI.	68824. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		48. MPH.	
AVERAGE DENSITY =	36. VPMPL		31. VPMPL	
TOTAL FUEL =	645. GALLONS		3810. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		262. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	65.	14.88	5.63	0.09	0.53	0.09	0.71
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	65.	14.88	5.63	0.09	0.53	0.09	0.71
OFF-RAMP	11	OUTPUT POINT	650.	156.61	59.32	0.91	5.60	0.98	7.49

```
QUEUE COLLISION IN SECTION  20 T2 =0.044
QUEUE COLLISION IN SECTION  18 T2 =0.250
QUEUE CLEAR SECTION  17 T2 =0.233
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2808.	128.	2808.	2808.	128.	2808.	4400.	0.	0.	0.	.64	62.	22.6	C	13.6	4.8
2	2	1970.	0.	0.	2680.	0.	0.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
3	2	1830.	448.	144.	3128.	448.	144.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	13.7	4.5
4	2	2010.	0.	0.	2984.	0.	0.	2984.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
5	3	2445.	632.	276.	3616.	892.	301.	3615.	5475.	125.	* 1474.	261.	.66	30.	40.8	F	12.5	5.2
6	2	1890.	0.	0.	3340.	0.	0.	3313.	4100.	0.	** 1890.	261.	.81	20.	83.3	F	11.9	4.6
7	3	5320.	780.	676.	4120.	780.	709.	4093.	5600.	0.	** 5320.	261.	.73	16.	87.7	F	11.3	5.6
8	2	880.	0.	0.	3444.	0.	0.	3384.	3900.	0.	** 880.	261.	.87	24.	69.8	F	13.6	3.9
9	2	1125.	204.	0.	3648.	204.	0.	3588.	3900.	0.	** 1125.	261.	.92	29.	61.5	F	20.4	3.3
10	2	6320.	512.	396.	4160.	512.	388.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	3764.	0.	0.	3389.	4100.	0.	* 870.	323.	.83	54.	31.4	F	21.4	3.1
12	2	2560.	632.	0.	4396.	632.	0.	4021.	4400.	0.	** 2560.	323.	.91	41.	49.6	F	18.4	2.7
13	2	1400.	0.	216.	4396.	0.	217.	4021.	4400.	0.	** 1400.	323.	.91	34.	58.4	F	39.3	3.0
14	2	1320.	0.	0.	4180.	0.	0.	3804.	4400.	0.	** 1320.	323.	.86	26.	73.0	F	13.9	3.8
15	3	540.	1028.	1324.	5208.	1028.	1227.	4832.	4832.	768.	0.	0.	1.00	52.	31.2	E	14.5	2.3
16	2	1230.	0.	0.	3884.	0.	0.	3605.	4400.	0.	0.	0.	.82	61.	29.8	D	20.6	4.0
17	2	890.	604.	0.	4488.	604.	0.	4209.	4400.	0.	0.	0.	.96	49.	43.1	E	22.2	2.5
18	2	4840.	136.	700.	4624.	136.	662.	4130.	4400.	0.	** 4840.	230.	.94	42.	49.5	F	18.6	2.6
19	2	530.	0.	0.	3924.	0.	0.	3467.	3800.	0.	** 530.	230.	.91	31.	55.7	F	20.6	3.2
20	2	1040.	724.	0.	4648.	724.	0.	4191.	4363.	37.	** 1040.	172.	.96	35.	59.6	F	21.6	2.9
21	3	2810.	836.	1104.	5484.	836.	1010.	5027.	5027.	573.	0.	0.	1.00	52.	32.5	E	30.3	2.3
22	2	1850.	0.	0.	4380.	0.	0.	4018.	4400.	0.	0.	0.	.91	57.	35.1	E	18.7	2.9
23	3	2390.	368.	252.	4748.	368.	232.	4386.	5502.	98.	0.	0.	.80	62.	23.6	C	24.1	4.8
24	3	960.	0.	1872.	4496.	0.	1500.	4153.	5565.	35.	0.	0.	.75	62.	22.3	C	17.2	4.8
25	2	1400.	0.	2624.	2624.	0.	2425.	2425.	3600.	0.	0.	0.	.67	62.	19.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 38.	41.4		16.7	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	284. VEH-HRS	321. PASS-HRS	1545. VEH-HRS	1749. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	8. VEH-HRS	9. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	170. VEH-HRS	192. PASS-HRS	706. VEH-HRS	799. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	462. VEH-HRS	523. PASS-HRS	2281. VEH-HRS	2582. PASS-HRS
TOTAL TRAV DISTANCE =	10884. VEH-MI.	12321. PASS-MI.	71683. VEH-MI.	81145. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		46. MPH.	
AVERAGE DENSITY =	41. VPMPL		33. VPMPL	
TOTAL FUEL =	720. GALLONS		4530. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		312. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	0.	8.13	3.08	0.05	0.29	0.05	0.39
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	8.13	3.08	0.05	0.29	0.05	0.39
OFF-RAMP	11	OUTPUT POINT	707.	169.68	64.27	0.99	6.07	1.06	8.12

QUEUE COLLISION IN SECTION 10 T2 =0.211

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2532.	168.	2532.	2532.	168.	2532.	4400.	0.	0.	0.	.58	62.	20.4	C	13.6	4.8
2	2	1970.	0.	0.	2364.	0.	0.	2364.	4100.	0.	0.	0.	.58	62.	19.1	C	13.6	4.8
3	2	1830.	372.	144.	2736.	372.	144.	2736.	4100.	0.	0.	0.	.67	62.	22.1	C	13.6	4.8
4	2	2010.	0.	0.	2592.	0.	0.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
5	3	2445.	656.	268.	3248.	656.	268.	3248.	5579.	21.	0.	0.	.58	34.	31.7	D	12.8	5.1
6	2	1890.	0.	0.	2980.	0.	0.	2958.	4100.	0.	* 743.	22.	.72	23.	63.5	F	12.3	4.5
7	3	5320.	712.	688.	3692.	712.	688.	3670.	5600.	0.	** 5320.	22.	.66	15.	80.2	F	11.2	5.6
8	2	880.	0.	0.	3004.	0.	0.	2982.	3900.	0.	** 880.	22.	.76	24.	62.3	F	13.6	3.9
9	2	1125.	208.	0.	3212.	208.	0.	3190.	3900.	0.	** 1125.	22.	.82	29.	55.2	F	20.3	3.3
10	2	6320.	452.	368.	3664.	452.	412.	3642.	4100.	0.	** 6320.	458.	.89	36.	50.6	F	21.3	2.9
11	2	2050.	0.	0.	3296.	0.	0.	3230.	4100.	0.	** 2050.	458.	.79	20.	82.7	F	17.4	4.8
12	2	2560.	732.	0.	4028.	732.	0.	3962.	4400.	0.	** 2560.	438.	.90	27.	72.9	F	16.0	3.5
13	2	1400.	0.	280.	4028.	0.	306.	3961.	4400.	0.	** 1400.	438.	.90	27.	72.9	F	37.8	3.5
14	2	1320.	0.	0.	3748.	0.	0.	3656.	4400.	0.	** 1320.	438.	.83	21.	85.4	F	13.0	4.4
15	3	540.	1124.	1324.	4872.	1124.	1299.	4780.	4780.	820.	0.	0.	1.00	52.	30.9	E	14.5	2.3
16	2	1230.	0.	0.	3548.	0.	0.	3481.	4400.	0.	0.	0.	.79	61.	28.5	D	20.3	4.3
17	2	890.	480.	0.	4028.	480.	0.	3961.	4400.	0.	0.	0.	.90	58.	34.3	D	21.5	3.1
18	2	4840.	156.	656.	4184.	156.	646.	4138.	4400.	0.	* 4368.	-21.	.94	32.	64.3	F	17.0	3.1
19	2	530.	0.	0.	3528.	0.	0.	3492.	3800.	0.	** 530.	-21.	.92	29.	60.1	F	20.4	3.3
20	2	1040.	724.	0.	4252.	724.	0.	4216.	4365.	35.	** 1040.	-21.	.97	35.	60.7	F	21.6	2.9
21	3	2810.	844.	1116.	5096.	844.	1108.	5060.	5060.	540.	0.	0.	1.00	52.	32.7	E	30.3	2.3
22	2	1850.	0.	0.	3980.	0.	0.	3952.	4400.	0.	0.	0.	.90	58.	34.1	D	18.5	3.1
23	3	2390.	408.	308.	4388.	408.	306.	4360.	5504.	96.	0.	0.	.79	62.	23.4	C	24.1	4.8
24	3	960.	0.	1812.	4080.	0.	1500.	4054.	5569.	31.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2268.	2268.	0.	2254.	2254.	3600.	0.	0.	0.	.63	62.	18.2	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 34.		44.2	16.3	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	306. VEH-HRS	346. PASS-HRS	1851. VEH-HRS	2096. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	186. VEH-HRS	211. PASS-HRS	892. VEH-HRS	1010. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	492. VEH-HRS	557. PASS-HRS	2773. VEH-HRS	3139. PASS-HRS
TOTAL TRAV DISTANCE =	10317. VEH-MI.	11679. PASS-MI.	82000. VEH-MI.	92824. PASS-MI.
AVERAGE SYSTEM SPEED =	21. MPH.		44. MPH.	
AVERAGE DENSITY =	44. VPMPL		34. VPMPL	
TOTAL FUEL =	704. GALLONS		5234. GALLONS	
TOTAL EMISSIONS =	51. KILOGRAMS		362. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	782.	186.19	70.52	1.08	6.66	1.16	8.91

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2756.	164.	2756.	2756.	164.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	13.6	4.8
2	2	1970.	0.	0.	2592.	0.	0.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
3	2	1830.	364.	172.	2956.	364.	172.	2956.	4100.	0.	0.	0.	.72	62.	23.8	C	13.6	4.8
4	2	2010.	0.	0.	2784.	0.	0.	2784.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
5	3	2445.	716.	392.	3500.	716.	392.	3340.	5475.	125.	* 171.	160.	.61	60.	18.5	F	13.5	4.8
6	2	1890.	0.	0.	3108.	0.	0.	2948.	4100.	0.	** 1890.	160.	.72	19.	79.7	F	11.7	5.4
7	3	5320.	620.	664.	3728.	620.	664.	3568.	5600.	0.	** 5320.	160.	.64	12.	102.0	F	10.1	6.5
8	2	880.	0.	0.	3064.	0.	0.	2904.	3900.	0.	** 880.	160.	.74	16.	89.4	F	12.1	5.4
9	2	1125.	216.	0.	3280.	216.	0.	3120.	3900.	0.	** 1125.	160.	.80	19.	80.6	F	17.5	4.7
10	2	6320.	408.	360.	3688.	408.	360.	3528.	4100.	0.	** 6320.	160.	.86	24.	74.6	F	18.9	4.0
11	2	2050.	0.	0.	3328.	0.	0.	3168.	4100.	0.	** 2050.	160.	.77	18.	89.3	F	16.7	5.1
12	2	2560.	724.	0.	4052.	724.	0.	3892.	4400.	0.	** 2560.	160.	.88	26.	75.8	F	15.7	3.7
13	2	1400.	0.	308.	4052.	0.	308.	3892.	4400.	0.	** 1400.	160.	.88	26.	75.8	F	36.5	3.7
14	2	1320.	0.	0.	3744.	0.	0.	3584.	4400.	0.	** 1320.	160.	.81	20.	88.3	F	12.8	4.5
15	3	540.	1164.	1308.	4908.	1164.	1265.	4748.	4748.	852.	0.	0.	1.00	52.	30.7	E	14.5	2.3
16	2	1230.	0.	0.	3600.	0.	0.	3278.	4400.	0.	* 1070.	204.	.75	37.	44.5	F	19.1	4.6
17	2	890.	496.	0.	4096.	496.	0.	3774.	4400.	0.	** 890.	204.	.86	28.	67.0	F	19.5	3.7
18	2	4840.	200.	596.	4296.	200.	580.	3974.	4400.	0.	** 4840.	204.	.90	28.	72.2	F	16.1	3.5
19	2	530.	0.	0.	3700.	0.	0.	3395.	3800.	0.	** 530.	204.	.89	27.	64.0	F	19.7	3.6
20	2	1040.	684.	0.	4384.	684.	0.	4079.	4367.	33.	** 1040.	204.	.93	31.	66.4	F	20.8	3.2
21	3	2810.	912.	1120.	5296.	912.	1055.	4991.	4991.	609.	0.	0.	1.00	52.	32.3	E	30.3	2.3
22	2	1850.	0.	0.	4176.	0.	0.	3935.	4400.	0.	0.	0.	.89	58.	33.9	D	18.5	3.1
23	3	2390.	444.	256.	4620.	444.	243.	4379.	5484.	116.	0.	0.	.80	62.	23.5	C	24.1	4.8
24	3	960.	0.	1880.	4364.	0.	1500.	4137.	5561.	39.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2484.	2484.	0.	2355.	2355.	3600.	0.	0.	0.	.65	62.	19.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 30.	51.8		15.7	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	344. VEH-HRS	389. PASS-HRS	2195. VEH-HRS	2485. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	204. VEH-HRS	231. PASS-HRS	1097. VEH-HRS	1241. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	548. VEH-HRS	621. PASS-HRS	3321. VEH-HRS	3760. PASS-HRS
TOTAL TRAV DISTANCE =	10150. VEH-MI.	11489. PASS-MI.	92150. VEH-MI.	104314. PASS-MI.
AVERAGE SYSTEM SPEED =	19. MPH.		42. MPH.	
AVERAGE DENSITY =	52. VPMPL		36. VPMPL	
TOTAL FUEL =	725. GALLONS		5959. GALLONS	
TOTAL EMISSIONS =	54. KILOGRAMS		416. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	853.	204.38	77.41	1.19	7.31	1.28	9.78

QUEUE COLLISION IN SECTION 15 T2 =0.033

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2736.	152.	2736.	2736.	152.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	13.6	4.8
2	2	1970.	0.	0.	2584.	0.	0.	2584.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
3	2	1830.	400.	232.	2984.	400.	232.	2984.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
4	2	2010.	0.	0.	2752.	0.	0.	2752.	4100.	0.	0.	0.	.67	62.	22.2	C	13.6	4.8
5	3	2445.	976.	400.	3728.	976.	400.	3672.	5393.	207.	* 514.	56.	.68	41.	29.7	F	13.1	5.0
6	2	1890.	0.	0.	3328.	0.	0.	3272.	4100.	0.	** 1890.	56.	.80	19.	85.1	F	11.8	4.8
7	3	5320.	568.	656.	3896.	568.	656.	3840.	5600.	0.	** 5320.	56.	.69	14.	94.6	F	10.7	6.1
8	2	880.	0.	0.	3240.	0.	0.	3184.	3900.	0.	** 880.	56.	.82	20.	78.0	F	12.8	4.5
9	2	1125.	180.	0.	3420.	180.	0.	3074.	3900.	0.	** 1125.	346.	.79	24.	64.6	F	18.9	4.0
10	2	6320.	360.	376.	3780.	360.	376.	3434.	4100.	0.	** 6320.	346.	.84	26.	64.9	F	19.7	3.6
11	2	2050.	0.	0.	3404.	0.	0.	3058.	4100.	0.	** 2050.	346.	.75	18.	83.5	F	17.0	4.9
12	2	2560.	648.	0.	4052.	648.	0.	3706.	4400.	0.	** 2560.	346.	.84	24.	76.6	F	15.3	3.9
13	2	1400.	0.	284.	4052.	0.	284.	3706.	4400.	0.	** 1400.	346.	.84	24.	78.7	F	34.7	4.0
14	2	1320.	0.	0.	3768.	0.	0.	3422.	4400.	0.	** 1320.	346.	.78	19.	91.6	F	12.5	4.9
15	3	540.	1084.	1260.	4852.	1084.	1245.	4506.	4796.	804.	** 540.	290.	.94	33.	46.0	F	13.4	3.0
16	2	1230.	0.	0.	3592.	0.	0.	3261.	4400.	0.	** 1230.	290.	.74	16.	101.2	F	16.0	5.5
17	2	890.	572.	0.	4164.	572.	0.	3833.	4400.	0.	** 890.	290.	.87	25.	78.2	F	19.1	3.9
18	2	4840.	196.	548.	4360.	196.	543.	4029.	4400.	0.	** 4840.	290.	.92	29.	70.2	F	16.4	3.4
19	2	530.	0.	0.	3812.	0.	0.	3486.	3800.	0.	** 530.	290.	.92	29.	60.3	F	20.3	3.4
20	2	1040.	688.	0.	4500.	688.	0.	4174.	4368.	32.	** 1040.	194.	.96	33.	62.5	F	21.3	3.0
21	3	2810.	872.	1032.	5372.	872.	969.	5046.	5046.	554.	0.	0.	1.00	52.	32.6	E	30.3	2.3
22	2	1850.	0.	0.	4340.	0.	0.	4077.	4400.	0.	0.	0.	.93	56.	36.1	E	18.9	2.8
23	3	2390.	536.	232.	4876.	536.	219.	4613.	5462.	138.	0.	0.	.84	62.	24.8	C	24.1	4.8
24	3	960.	0.	1856.	4644.	0.	1500.	4393.	5550.	50.	0.	0.	.79	62.	23.6	C	17.2	4.8
25	2	1400.	0.	2788.	2788.	0.	2638.	2638.	3600.	0.	0.	0.	.73	62.	21.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 30.	51.6		15.8	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	347. VEH-HRS	393. PASS-HRS	2542. VEH-HRS	2878. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	221. VEH-HRS	250. PASS-HRS	1318. VEH-HRS	1492. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	568. VEH-HRS	644. PASS-HRS	3890. VEH-HRS	4403. PASS-HRS
TOTAL TRAV DISTANCE =	10381. VEH-MI.	11751. PASS-MI.	102531. VEH-MI.	116065. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		40. MPH.	
AVERAGE DENSITY =	52. VPMPL		38. VPMPL	
TOTAL FUEL =	742. GALLONS		6701. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		471. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	917.	221.19	83.77	1.29	7.91	1.38	10.58

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2468.	132.	2468.	2468.	132.	2468.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
2	2	1970.	0.	0.	2336.	0.	0.	2336.	4100.	0.	0.	0.	.57	62.	18.8	C	13.6	4.8
3	2	1830.	368.	264.	2704.	368.	264.	2704.	4100.	0.	0.	0.	.66	62.	21.8	C	13.6	4.8
4	2	2010.	0.	0.	2440.	0.	0.	2440.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
5	3	2445.	1144.	364.	3584.	1144.	364.	3466.	5402.	198.	* 1174.	118.	.64	25.	45.3	F	12.2	5.3
6	2	1890.	0.	0.	3220.	0.	0.	3102.	4100.	0.	** 1890.	118.	.76	17.	92.0	F	11.4	5.3
7	3	5320.	540.	660.	3760.	540.	660.	3642.	5600.	0.	** 5320.	118.	.65	12.	100.0	F	10.3	6.4
8	2	880.	0.	0.	3100.	0.	0.	2982.	3900.	0.	** 880.	118.	.76	17.	86.2	F	12.3	5.2
9	2	1125.	148.	0.	3248.	148.	0.	3130.	3900.	0.	** 1125.	118.	.80	20.	80.2	F	17.5	4.7
10	2	6320.	396.	428.	3644.	396.	428.	3526.	4100.	0.	** 6320.	118.	.86	24.	74.7	F	18.9	4.0
11	2	2050.	0.	0.	3216.	0.	0.	3098.	4100.	0.	** 2050.	118.	.76	17.	92.2	F	16.3	5.3
12	2	2560.	612.	0.	3828.	612.	0.	3710.	4400.	0.	** 2560.	118.	.84	22.	83.2	F	14.8	4.2
13	2	1400.	0.	324.	3828.	0.	324.	3710.	4400.	0.	** 1400.	118.	.84	22.	83.2	F	33.5	4.2
14	2	1320.	0.	0.	3504.	0.	0.	3386.	4400.	0.	** 1320.	118.	.77	18.	96.4	F	12.3	5.1
15	3	540.	1008.	1360.	4512.	1008.	1360.	4394.	4896.	704.	** 540.	118.	.90	27.	54.5	F	12.7	3.6
16	2	1230.	0.	0.	3152.	0.	0.	3034.	4400.	0.	** 1230.	118.	.69	14.	110.8	F	14.7	6.0
17	2	890.	624.	0.	3776.	624.	0.	3658.	4400.	0.	** 890.	118.	.83	21.	85.3	F	18.2	4.3
18	2	4840.	160.	520.	3936.	160.	520.	3818.	4400.	0.	** 4840.	118.	.87	24.	78.8	F	15.3	3.9
19	2	530.	0.	0.	3416.	0.	0.	3298.	3800.	0.	** 530.	118.	.87	24.	68.0	F	19.1	3.9
20	2	1040.	768.	0.	4184.	768.	0.	4066.	4363.	37.	** 1040.	118.	.93	31.	66.6	F	20.7	3.2
21	3	2810.	916.	1136.	5100.	916.	1110.	4982.	4982.	618.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3964.	0.	0.	3873.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	420.	180.	4384.	420.	176.	4293.	5488.	112.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1916.	4204.	0.	1500.	4116.	5566.	34.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2288.	2288.	0.	2240.	2240.	3600.	0.	0.	0.	.62	62.	18.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 27.	55.3		15.3	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	367. VEH-HRS	416. PASS-HRS	2910. VEH-HRS	3294. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	241. VEH-HRS	273. PASS-HRS	1559. VEH-HRS	1764. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	608. VEH-HRS	688. PASS-HRS	4498. VEH-HRS	5092. PASS-HRS
TOTAL TRAV DISTANCE =	9776. VEH-MI.	11067. PASS-MI.	112307. VEH-MI.	127132. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		39. MPH.	
AVERAGE DENSITY =	55. VPMPL		39. VPMPL	
TOTAL FUEL =	728. GALLONS		7429. GALLONS	
TOTAL EMISSIONS =	56. KILOGRAMS		527. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1011.	240.93	91.25	1.40	8.62	1.50	11.53

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2704.	168.	2704.	2704.	168.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	13.6	4.8
2	2	1970.	0.	0.	2536.	0.	0.	2536.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
3	2	1830.	356.	204.	2892.	356.	204.	2892.	4100.	0.	0.	0.	.71	62.	23.3	C	13.6	4.8
4	2	2010.	0.	0.	2688.	0.	0.	2688.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
5	3	2445.	912.	304.	3600.	912.	304.	3600.	5463.	137.	0.	0.	.66	38.	31.3	D	13.0	5.0
6	2	1890.	0.	0.	3296.	0.	0.	3551.	4100.	0.	* 921.	-255.	.87	25.	70.8	F	12.8	3.9
7	3	5320.	528.	692.	3824.	528.	692.	4079.	5600.	0.	** 5320.	-255.	.73	15.	88.1	F	11.3	5.6
8	2	880.	0.	0.	3132.	0.	0.	3387.	3900.	0.	** 880.	-255.	.87	24.	69.7	F	13.6	3.9
9	2	1125.	168.	0.	3300.	168.	0.	3555.	3900.	0.	** 1125.	-255.	.91	28.	62.8	F	20.2	3.4
10	2	6320.	392.	412.	3692.	392.	412.	3947.	4100.	0.	** 6320.	-255.	.96	34.	57.5	F	21.5	2.9
11	2	2050.	0.	0.	3280.	0.	0.	3535.	4100.	0.	** 2050.	-255.	.86	24.	74.3	F	18.9	4.0
12	2	2560.	568.	0.	3848.	568.	0.	4103.	4400.	0.	** 2560.	-255.	.93	31.	67.1	F	16.8	3.2
13	2	1400.	0.	384.	3848.	0.	384.	4103.	4400.	0.	** 1400.	-255.	.93	31.	67.1	F	40.3	3.2
14	2	1320.	0.	0.	3464.	0.	0.	3719.	4400.	0.	** 1320.	-255.	.85	22.	82.8	F	13.2	4.2
15	3	540.	916.	1264.	4380.	916.	1264.	4635.	4948.	652.	** 540.	-255.	.94	31.	49.8	F	13.3	3.1
16	2	1230.	0.	0.	3116.	0.	0.	3371.	4400.	0.	** 1230.	-255.	.77	17.	97.0	F	16.6	5.2
17	2	890.	552.	0.	3668.	552.	0.	3923.	4400.	0.	** 890.	-255.	.89	26.	74.5	F	19.6	3.6
18	2	4840.	176.	636.	3844.	176.	636.	4099.	4400.	0.	** 4840.	-255.	.93	30.	67.3	F	16.8	3.2
19	2	530.	0.	0.	3208.	0.	0.	3463.	3800.	0.	** 530.	-255.	.91	28.	61.3	F	20.1	3.4
20	2	1040.	752.	0.	3960.	752.	0.	4215.	4366.	34.	** 1040.	-255.	.97	35.	60.7	F	21.6	2.9
21	3	2810.	852.	1144.	4812.	852.	1205.	5067.	5067.	533.	0.	0.	1.00	52.	32.8	E	30.3	2.3
22	2	1850.	0.	0.	3668.	0.	0.	3863.	4400.	0.	0.	0.	.88	59.	32.9	D	18.3	3.3
23	3	2390.	308.	196.	3976.	308.	206.	4171.	5534.	66.	0.	0.	.75	62.	22.4	C	24.1	4.8
24	3	960.	0.	1716.	3780.	0.	1500.	3965.	5581.	19.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	2064.	2064.	0.	2165.	2165.	3600.	0.	0.	0.	.60	62.	17.5	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 33.	47.9		16.2	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	319. VEH-HRS	361. PASS-HRS	3228. VEH-HRS	3654. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	262. VEH-HRS	297. PASS-HRS	1821. VEH-HRS	2061. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	581. VEH-HRS	657. PASS-HRS	5079. VEH-HRS	5749. PASS-HRS
TOTAL TRAV DISTANCE =	10539. VEH-MI.	11930. PASS-MI.	122846. VEH-MI.	139062. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		38. MPH.	
AVERAGE DENSITY =	48. VPMPL		40. VPMPL	
TOTAL FUEL =	748. GALLONS		8177. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		582. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1086.	262.06	99.25	1.52	9.38	1.64	12.54

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2992.	136.	2992.	2992.	136.	2992.	4400.	0.	0.	0.	.68	62.	24.1	C	13.6	4.8
2	2	1970.	0.	0.	2856.	0.	0.	2856.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
3	2	1830.	304.	84.	3160.	304.	84.	3160.	4100.	0.	0.	0.	.77	61.	25.7	C	13.7	4.5
4	2	2010.	0.	0.	3076.	0.	0.	3076.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
5	3	2445.	680.	304.	3756.	680.	304.	3756.	5538.	62.	0.	0.	.68	62.	20.2	C	13.6	4.8
6	2	1890.	0.	0.	3452.	0.	0.	3505.	4100.	0.	* 172.	-53.	.85	41.	42.8	F	13.6	3.7
7	3	5320.	612.	736.	4064.	612.	736.	4117.	5600.	0.	** 5320.	-53.	.74	16.	87.0	F	11.3	5.5
8	2	880.	0.	0.	3328.	0.	0.	3381.	3900.	0.	** 880.	-53.	.87	24.	69.9	F	13.6	3.9
9	2	1125.	184.	0.	3512.	184.	0.	3565.	3900.	0.	** 1125.	-53.	.91	29.	62.4	F	20.2	3.4
10	2	6320.	412.	340.	3924.	412.	340.	3977.	4100.	0.	** 6320.	-53.	.97	35.	56.3	F	21.7	2.8
11	2	2050.	0.	0.	3584.	0.	0.	3637.	4100.	0.	** 2050.	-53.	.89	26.	70.2	F	19.5	3.7
12	2	2560.	636.	0.	4220.	636.	0.	4273.	4400.	0.	** 2560.	-53.	.97	36.	60.2	F	17.3	2.8
13	2	1400.	0.	412.	4220.	0.	412.	4273.	4400.	0.	** 1400.	-53.	.97	36.	60.2	F	39.1	2.8
14	2	1320.	0.	0.	3808.	0.	0.	3861.	4400.	0.	** 1320.	-53.	.88	25.	77.0	F	13.8	3.8
15	3	540.	796.	1176.	4604.	796.	1176.	4657.	5008.	592.	** 540.	-53.	.93	30.	51.3	F	13.2	3.2
16	2	1230.	0.	0.	3428.	0.	0.	3481.	4400.	0.	** 1230.	-53.	.79	19.	92.5	F	17.2	4.9
17	2	890.	488.	0.	3916.	488.	0.	3969.	4400.	0.	** 890.	-53.	.90	27.	72.6	F	19.9	3.5
18	2	4840.	176.	608.	4092.	176.	608.	4145.	4400.	0.	** 4840.	-53.	.94	32.	65.4	F	16.9	3.1
19	2	530.	0.	0.	3484.	0.	0.	3537.	3800.	0.	** 530.	-53.	.93	30.	58.2	F	20.7	3.2
20	2	1040.	648.	0.	4132.	648.	0.	4185.	4366.	34.	** 1040.	-53.	.96	34.	62.0	F	21.4	2.9
21	3	2810.	856.	1196.	4988.	856.	1209.	5041.	5041.	559.	0.	0.	1.00	52.	32.6	E	30.3	2.3
22	2	1850.	0.	0.	3792.	0.	0.	3832.	4400.	0.	0.	0.	.87	59.	32.5	D	18.2	3.4
23	3	2390.	272.	140.	4064.	272.	141.	4104.	5534.	66.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	1856.	3924.	0.	1500.	3963.	5582.	18.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	2068.	2068.	0.	2089.	2089.	3600.	0.	0.	0.	.58	62.	16.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 36.		46.2	16.3	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	306. VEH-HRS	347. PASS-HRS	3535. VEH-HRS	4001. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	283. VEH-HRS	321. PASS-HRS	2104. VEH-HRS	2382. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	590. VEH-HRS	667. PASS-HRS	5668. VEH-HRS	6417. PASS-HRS
TOTAL TRAV DISTANCE =	10882. VEH-MI.	12319. PASS-MI.	133729. VEH-MI.	151381. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		38. MPH.	
AVERAGE DENSITY =	46. VPMPL		40. VPMPL	
TOTAL FUEL =	774. GALLONS		8951. GALLONS	
TOTAL EMISSIONS =	56. KILOGRAMS		639. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1179.	283.13	107.24	1.65	10.13	1.77	13.55

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2876.	152.	2876.	2876.	152.	2876.	4400.	0.	0.	0.	.65	62.	23.2	C	13.6	4.8
2	2	1970.	0.	0.	2724.	0.	0.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	13.6	4.8
3	2	1830.	296.	92.	3020.	296.	92.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	13.6	4.8
4	2	2010.	0.	0.	2928.	0.	0.	2928.	4100.	0.	0.	0.	.71	62.	23.6	C	13.6	4.8
5	3	2445.	672.	256.	3600.	672.	256.	3600.	5569.	31.	0.	0.	.65	62.	19.4	C	13.6	4.8
6	2	1890.	0.	0.	3344.	0.	0.	3230.	4100.	0.	* 1444.	114.	.79	31.	51.8	F	12.9	4.4
7	3	5320.	568.	752.	3912.	568.	752.	3798.	5600.	0.	** 5320.	114.	.68	13.	95.7	F	10.6	6.1
8	2	880.	0.	0.	3160.	0.	0.	3046.	3900.	0.	** 880.	114.	.78	18.	83.6	F	12.4	5.0
9	2	1125.	208.	0.	3368.	208.	0.	3254.	3900.	0.	** 1125.	114.	.83	22.	75.1	F	18.2	4.3
10	2	6320.	504.	272.	3872.	504.	272.	3758.	4100.	0.	** 6320.	114.	.92	29.	65.2	F	20.3	3.4
11	2	2050.	0.	0.	3600.	0.	0.	3486.	4100.	0.	** 2050.	114.	.85	23.	76.3	F	18.6	4.1
12	2	2560.	608.	0.	4208.	608.	0.	4094.	4400.	0.	** 2560.	114.	.93	30.	67.5	F	16.8	3.2
13	2	1400.	0.	356.	4208.	0.	356.	4094.	4400.	0.	** 1400.	114.	.93	30.	67.5	F	40.4	3.2
14	2	1320.	0.	0.	3852.	0.	0.	3738.	4400.	0.	** 1320.	114.	.85	23.	82.0	F	13.3	4.1
15	3	540.	816.	1276.	4668.	816.	1276.	4554.	5008.	592.	** 540.	114.	.91	28.	54.1	F	12.9	3.4
16	2	1230.	0.	0.	3392.	0.	0.	3278.	4400.	0.	** 1230.	114.	.74	16.	100.8	F	16.1	5.4
17	2	890.	496.	0.	3888.	496.	0.	3774.	4400.	0.	** 890.	114.	.86	23.	80.6	F	18.8	4.0
18	2	4840.	184.	524.	4072.	184.	524.	3958.	4400.	0.	** 4840.	114.	.90	27.	73.1	F	16.0	3.5
19	2	530.	0.	0.	3548.	0.	0.	3434.	3800.	0.	** 530.	114.	.90	27.	62.5	F	19.9	3.5
20	2	1040.	656.	0.	4204.	656.	0.	4090.	4366.	34.	** 1040.	114.	.94	31.	65.9	F	20.8	3.2
21	3	2810.	892.	1220.	5096.	892.	1193.	4982.	4982.	618.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3876.	0.	0.	3789.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	312.	184.	4188.	312.	180.	4101.	5525.	75.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1756.	4004.	0.	1500.	3921.	5575.	25.	0.	0.	.70	62.	21.1	C	17.2	4.8
25	2	1400.	0.	2248.	2248.	0.	2201.	2201.	3600.	0.	0.	0.	.61	62.	17.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 31.		49.9	15.9	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	331. VEH-HRS	375. PASS-HRS	3866. VEH-HRS	4376. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	302. VEH-HRS	342. PASS-HRS	2406. VEH-HRS	2723. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	633. VEH-HRS	716. PASS-HRS	6301. VEH-HRS	7133. PASS-HRS
TOTAL TRAV DISTANCE =	10428. VEH-MI.	11804. PASS-MI.	144156. VEH-MI.	163185. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		37. MPH.	
AVERAGE DENSITY =	50. VPMPL		41. VPMPL	
TOTAL FUEL =	770. GALLONS		9721. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		697. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1234.	301.70	114.27	1.76	10.80	1.88	14.43

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2632.	156.	2632.	2632.	156.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2476.	0.	0.	2476.	4100.	0.	0.	0.	.60	62.	20.0	C	13.6	4.8
3	2	1830.	348.	96.	2824.	348.	96.	2824.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
4	2	2010.	0.	0.	2728.	0.	0.	2728.	4100.	0.	0.	0.	.67	62.	22.0	C	13.6	4.8
5	3	2445.	684.	400.	3412.	684.	400.	3412.	5488.	112.	0.	0.	.62	62.	18.3	C	13.6	4.8
6	2	1890.	0.	0.	3012.	0.	0.	3083.	4100.	0.	* 762.	-71.	.75	24.	64.9	F	12.2	5.1
7	3	5320.	560.	584.	3572.	560.	584.	3643.	5600.	0.	** 5320.	-71.	.65	12.	100.0	F	10.3	6.4
8	2	880.	0.	0.	2988.	0.	0.	3059.	3900.	0.	** 880.	-71.	.78	18.	83.1	F	12.5	4.9
9	2	1125.	224.	0.	3212.	224.	0.	3283.	3900.	0.	** 1125.	-71.	.84	22.	74.0	F	18.4	4.2
10	2	6320.	564.	248.	3776.	564.	248.	3847.	4100.	0.	** 6320.	-71.	.94	31.	61.6	F	20.9	3.1
11	2	2050.	0.	0.	3528.	0.	0.	3599.	4100.	0.	** 2050.	-71.	.88	25.	71.7	F	19.3	3.8
12	2	2560.	540.	0.	4068.	540.	0.	4139.	4400.	0.	** 2560.	-71.	.94	32.	65.7	F	16.9	3.1
13	2	1400.	0.	420.	4068.	0.	420.	4139.	4400.	0.	** 1400.	-71.	.94	32.	65.7	F	40.1	3.1
14	2	1320.	0.	0.	3648.	0.	0.	3719.	4400.	0.	** 1320.	-71.	.85	22.	82.8	F	13.2	4.2
15	3	540.	848.	1336.	4496.	848.	1336.	4567.	5004.	596.	** 540.	-71.	.91	28.	53.6	F	12.9	3.4
16	2	1230.	0.	0.	3160.	0.	0.	3231.	4400.	0.	** 1230.	-71.	.73	16.	102.8	F	15.9	5.6
17	2	890.	544.	0.	3704.	544.	0.	3775.	4400.	0.	** 890.	-71.	.86	23.	80.5	F	18.8	4.0
18	2	4840.	236.	608.	3940.	236.	608.	4011.	4400.	0.	** 4840.	-71.	.91	28.	70.9	F	16.3	3.4
19	2	530.	0.	0.	3332.	0.	0.	3403.	3800.	0.	** 530.	-71.	.90	27.	63.7	F	19.7	3.6
20	2	1040.	688.	0.	4020.	688.	0.	4091.	4366.	34.	** 1040.	-71.	.94	31.	65.8	F	20.8	3.1
21	3	2810.	896.	1288.	4916.	896.	1307.	4987.	4987.	613.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3628.	0.	0.	3680.	4400.	0.	0.	0.	.84	60.	30.6	D	17.9	3.7
23	3	2390.	272.	172.	3900.	272.	174.	3952.	5540.	60.	0.	0.	.71	62.	21.2	C	24.1	4.8
24	3	960.	0.	1704.	3728.	0.	1500.	3778.	5585.	15.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	2024.	2024.	0.	2051.	2051.	3600.	0.	0.	0.	.57	62.	16.5	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 31.	49.2		16.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	327. VEH-HRS	370. PASS-HRS	4193. VEH-HRS	4746. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	316. VEH-HRS	357. PASS-HRS	2721. VEH-HRS	3080. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	643. VEH-HRS	728. PASS-HRS	6944. VEH-HRS	7861. PASS-HRS
TOTAL TRAV DISTANCE =	10151. VEH-MI.	11491. PASS-MI.	154307. VEH-MI.	174675. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		37. MPH.	
AVERAGE DENSITY =	49. VPMPL		42. VPMPL	
TOTAL FUEL =	755. GALLONS		10476. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		755. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1291.	315.65	119.55	1.84	11.29	1.97	15.10

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2224.	100.	2224.	2224.	100.	2224.	4400.	0.	0.	0.	.51	62.	17.9	B	13.6	4.8
2	2	1970.	0.	0.	2124.	0.	0.	2124.	4100.	0.	0.	0.	.52	62.	17.1	B	13.6	4.8
3	2	1830.	300.	104.	2424.	300.	104.	2424.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
4	2	2010.	0.	0.	2320.	0.	0.	2320.	4100.	0.	0.	0.	.57	62.	18.7	C	13.6	4.8
5	3	2445.	576.	448.	2896.	576.	448.	2896.	5528.	72.	0.	0.	.52	62.	15.6	B	13.6	4.8
6	2	1890.	0.	0.	2448.	0.	0.	2448.	4100.	0.	0.	0.	.60	58.	21.3	C	13.5	4.8
7	3	5320.	508.	532.	2956.	508.	532.	3654.	5600.	0.	* 2081.	-698.	.65	15.	81.3	F	10.9	6.0
8	2	880.	0.	0.	2424.	0.	0.	3122.	3900.	0.	** 880.	-698.	.80	19.	80.5	F	12.6	4.7
9	2	1125.	192.	0.	2616.	192.	0.	3314.	3900.	0.	** 1125.	-698.	.85	23.	72.7	F	18.6	4.1
10	2	6320.	492.	248.	3108.	492.	248.	3806.	4100.	0.	** 6320.	-698.	.93	30.	63.3	F	20.6	3.2
11	2	2050.	0.	0.	2860.	0.	0.	3558.	4100.	0.	** 2050.	-698.	.87	24.	73.4	F	19.1	3.9
12	2	2560.	544.	0.	3404.	544.	0.	4102.	4400.	0.	** 2560.	-698.	.93	31.	67.2	F	16.8	3.2
13	2	1400.	0.	392.	3404.	0.	392.	4102.	4400.	0.	** 1400.	-698.	.93	31.	67.2	F	40.3	3.2
14	2	1320.	0.	0.	3012.	0.	0.	3710.	4400.	0.	** 1320.	-698.	.84	22.	83.2	F	13.2	4.2
15	3	540.	888.	1228.	3900.	888.	1228.	4598.	4992.	608.	** 540.	-698.	.92	29.	52.3	F	13.1	3.3
16	2	1230.	0.	0.	2672.	0.	0.	3370.	4400.	0.	** 1230.	-698.	.77	17.	97.1	F	16.6	5.2
17	2	890.	636.	0.	3308.	636.	0.	4006.	4400.	0.	** 890.	-698.	.91	28.	71.1	F	20.1	3.4
18	2	4840.	268.	636.	3576.	268.	636.	4274.	4400.	0.	** 4840.	-698.	.97	36.	60.1	F	17.4	2.8
19	2	530.	0.	0.	2940.	0.	0.	3638.	3800.	0.	** 530.	-698.	.96	34.	54.1	F	21.3	3.0
20	2	1040.	604.	0.	3544.	604.	0.	4242.	4378.	22.	** 1040.	-698.	.97	35.	60.3	F	21.6	2.8
21	3	2810.	860.	1188.	4404.	860.	1376.	5102.	5102.	498.	0.	0.	1.00	52.	33.0	E	30.3	2.3
22	2	1850.	0.	0.	3216.	0.	0.	3726.	4400.	0.	0.	0.	.85	60.	31.1	D	18.0	3.6
23	3	2390.	308.	176.	3524.	308.	201.	4034.	5551.	49.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1552.	3348.	0.	1500.	3833.	5590.	10.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1796.	1796.	0.	2056.	2056.	3600.	0.	0.	0.	.57	62.	16.6	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 34.	44.3		16.5	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	290. VEH-HRS	329. PASS-HRS	4483. VEH-HRS	5075. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	331. VEH-HRS	375. PASS-HRS	3053. VEH-HRS	3456. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	622. VEH-HRS	704. PASS-HRS	7566. VEH-HRS	8564. PASS-HRS
TOTAL TRAV DISTANCE =	9743. VEH-MI.	11029. PASS-MI.	164049. VEH-MI.	185704. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		37. MPH.	
AVERAGE DENSITY =	44. VPMPL		42. VPMPL	
TOTAL FUEL =	716. GALLONS		11192. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		810. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1360.	331.38	125.51	1.93	11.86	2.07	15.85

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2148.	72.	2148.	2148.	72.	2148.	4400.	0.	0.	0.	.49	62.	17.3	B	13.6	4.8
2	2	1970.	0.	0.	2076.	0.	0.	2076.	4100.	0.	0.	0.	.51	62.	16.7	B	13.6	4.8
3	2	1830.	324.	120.	2400.	324.	120.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
4	2	2010.	0.	0.	2280.	0.	0.	2280.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
5	3	2445.	452.	332.	2732.	452.	332.	2732.	5600.	0.	0.	0.	.49	62.	14.7	B	13.6	4.8
6	2	1890.	0.	0.	2400.	0.	0.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
7	3	5320.	532.	484.	2932.	532.	484.	2932.	5600.	0.	0.	0.	.52	32.	30.2	D	12.7	5.2
8	2	880.	0.	0.	2448.	0.	0.	2940.	3900.	0.	* 251.	-492.	.75	17.	85.4	F	12.3	5.3
9	2	1125.	188.	0.	2636.	188.	0.	3128.	3900.	0.	** 1125.	-492.	.80	19.	80.3	F	17.5	4.7
10	2	6320.	544.	300.	3180.	544.	300.	3672.	4100.	0.	** 6320.	-492.	.90	27.	68.8	F	19.7	3.6
11	2	2050.	0.	0.	2880.	0.	0.	3372.	4100.	0.	** 2050.	-492.	.82	21.	81.0	F	18.0	4.5
12	2	2560.	524.	0.	3404.	524.	0.	3896.	4400.	0.	** 2560.	-492.	.89	26.	75.6	F	15.7	3.7
13	2	1400.	0.	372.	3404.	0.	372.	3896.	4400.	0.	** 1400.	-492.	.89	26.	75.6	F	36.6	3.7
14	2	1320.	0.	0.	3032.	0.	0.	3524.	4400.	0.	** 1320.	-492.	.80	19.	90.8	F	12.6	4.7
15	3	540.	868.	1100.	3900.	868.	1100.	4392.	4976.	624.	** 540.	-492.	.88	26.	57.4	F	12.4	3.7
16	2	1230.	0.	0.	2800.	0.	0.	3292.	4400.	0.	** 1230.	-492.	.75	16.	100.3	F	16.2	5.4
17	2	890.	652.	0.	3452.	652.	0.	3944.	4400.	0.	** 890.	-492.	.90	27.	73.6	F	19.8	3.6
18	2	4840.	236.	580.	3688.	236.	580.	4180.	4400.	0.	** 4840.	-492.	.95	33.	64.0	F	17.0	3.0
19	2	530.	0.	0.	3108.	0.	0.	3600.	3800.	0.	** 530.	-492.	.95	32.	55.7	F	21.1	3.1
20	2	1040.	712.	0.	3820.	712.	0.	4312.	4368.	32.	** 1040.	-492.	.99	38.	56.9	F	21.9	2.7
21	3	2810.	792.	1168.	4612.	792.	1293.	5104.	5104.	496.	0.	0.	1.00	52.	33.0	E	30.3	2.3
22	2	1850.	0.	0.	3444.	0.	0.	3811.	4400.	0.	0.	0.	.87	59.	32.2	D	18.2	3.4
23	3	2390.	272.	120.	3716.	272.	132.	4083.	5553.	47.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1816.	3596.	0.	1500.	3951.	5591.	9.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	1780.	1780.	0.	1956.	1956.	3600.	0.	0.	0.	.54	62.	15.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 35.	41.8		16.6	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	267. VEH-HRS	302. PASS-HRS	4750. VEH-HRS	5377. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	356. VEH-HRS	402. PASS-HRS	3408. VEH-HRS	3858. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	622. VEH-HRS	704. PASS-HRS	8188. VEH-HRS	9269. PASS-HRS
TOTAL TRAV DISTANCE =	9401. VEH-MI.	10641. PASS-MI.	173450. VEH-MI.	196345. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		37. MPH.	
AVERAGE DENSITY =	42. VPMPL		42. VPMPL	
TOTAL FUEL =	700. GALLONS		11892. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		865. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1484.	355.51	134.65	2.07	12.72	2.22	17.01

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1928.	80.	1928.	1928.	80.	1928.	4400.	0.	0.	0.	.44	62.	15.5	B	13.6	4.8
2	2	1970.	0.	0.	1848.	0.	0.	1848.	4100.	0.	0.	0.	.45	62.	14.9	B	13.6	4.8
3	2	1830.	336.	48.	2184.	336.	48.	2184.	4100.	0.	0.	0.	.53	62.	17.6	B	13.6	4.8
4	2	2010.	0.	0.	2136.	0.	0.	2136.	4100.	0.	0.	0.	.52	62.	17.2	B	13.6	4.8
5	3	2445.	632.	308.	2768.	632.	308.	2768.	5576.	24.	0.	0.	.50	62.	14.9	B	13.6	4.8
6	2	1890.	0.	0.	2460.	0.	0.	2460.	4100.	0.	0.	0.	.60	62.	19.8	C	13.6	4.8
7	3	5320.	500.	608.	2960.	500.	608.	2960.	5600.	0.	0.	0.	.53	62.	15.9	B	13.6	4.8
8	2	880.	0.	0.	2352.	0.	0.	2352.	3900.	0.	0.	0.	.60	61.	19.4	C	14.9	4.8
9	2	1125.	192.	0.	2544.	192.	0.	2544.	3900.	0.	0.	0.	.65	45.	28.3	D	19.4	4.8
10	2	6320.	580.	280.	3124.	580.	280.	3124.	4100.	0.	0.	0.	.76	33.	46.7	F	19.9	3.9
11	2	2050.	0.	0.	2844.	0.	0.	3397.	4100.	0.	* 1953.	-553.	.83	21.	80.0	F	18.1	4.4
12	2	2560.	544.	0.	3388.	544.	0.	3941.	4400.	0.	** 2560.	-553.	.90	27.	73.8	F	15.9	3.6
13	2	1400.	0.	384.	3388.	0.	384.	3941.	4400.	0.	** 1400.	-553.	.90	27.	73.8	F	37.4	3.6
14	2	1320.	0.	0.	3004.	0.	0.	3557.	4400.	0.	** 1320.	-553.	.81	20.	89.5	F	12.7	4.6
15	3	540.	780.	976.	3784.	780.	976.	4337.	5020.	580.	** 540.	-553.	.86	24.	60.4	F	12.1	4.0
16	2	1230.	0.	0.	2808.	0.	0.	3361.	4400.	0.	** 1230.	-553.	.76	17.	97.5	F	16.5	5.2
17	2	890.	652.	0.	3460.	652.	0.	4013.	4400.	0.	** 890.	-553.	.91	28.	70.8	F	20.2	3.4
18	2	4840.	232.	612.	3692.	232.	612.	4245.	4400.	0.	** 4840.	-553.	.96	35.	61.3	F	17.3	2.9
19	2	530.	0.	0.	3080.	0.	0.	3633.	3800.	0.	** 530.	-553.	.96	33.	54.3	F	21.3	3.0
20	2	1040.	684.	0.	3764.	684.	0.	4317.	4371.	29.	** 1040.	-553.	.99	38.	56.9	F	21.9	2.7
21	3	2810.	812.	1104.	4576.	812.	1237.	5129.	5129.	471.	0.	0.	1.00	52.	33.2	E	30.3	2.3
22	2	1850.	0.	0.	3472.	0.	0.	3891.	4400.	0.	0.	0.	.88	59.	33.3	D	18.4	3.3
23	3	2390.	288.	120.	3760.	288.	134.	4179.	5542.	58.	0.	0.	.75	62.	22.5	C	24.1	4.8
24	3	960.	0.	1772.	3640.	0.	1500.	4046.	5588.	12.	0.	0.	.72	62.	21.8	C	17.2	4.8
25	2	1400.	0.	1868.	1868.	0.	2076.	2076.	3600.	0.	0.	0.	.58	62.	16.7	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 40.	35.6		17.0	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	229. VEH-HRS	259. PASS-HRS	4979. VEH-HRS	5636. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	386. VEH-HRS	437. PASS-HRS	3794. VEH-HRS	4295. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	615. VEH-HRS	696. PASS-HRS	8803. VEH-HRS	9965. PASS-HRS
TOTAL TRAV DISTANCE =	9163. VEH-MI.	10373. PASS-MI.	182613. VEH-MI.	206718. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		37. MPH.	
AVERAGE DENSITY =	36. VPMPL		41. VPMPL	
TOTAL FUEL =	686. GALLONS		12578. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		921. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1601.	385.66	146.07	2.24	13.80	2.41	18.45

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2048.	100.	2048.	2048.	100.	2048.	4400.	0.	0.	0.	.47	62.	16.5	B	13.6	4.8
2	2	1970.	0.	0.	1948.	0.	0.	1948.	4100.	0.	0.	0.	.48	62.	15.7	B	13.6	4.8
3	2	1830.	404.	64.	2352.	404.	64.	2352.	4100.	0.	0.	0.	.57	62.	19.0	C	13.6	4.8
4	2	2010.	0.	0.	2288.	0.	0.	2288.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
5	3	2445.	528.	284.	2816.	528.	284.	2816.	5600.	0.	0.	0.	.50	62.	15.1	B	13.6	4.8
6	2	1890.	0.	0.	2532.	0.	0.	2532.	4100.	0.	0.	0.	.62	62.	20.4	C	13.6	4.8
7	3	5320.	560.	668.	3092.	560.	668.	3092.	5600.	0.	0.	0.	.55	62.	16.6	B	13.6	4.8
8	2	880.	0.	0.	2424.	0.	0.	2424.	3900.	0.	0.	0.	.62	62.	19.5	C	14.9	4.8
9	2	1125.	200.	0.	2624.	200.	0.	2624.	3900.	0.	0.	0.	.67	62.	21.2	C	19.9	4.8
10	2	6320.	496.	320.	3120.	496.	320.	3120.	4100.	0.	0.	0.	.76	62.	25.3	C	20.1	4.5
11	2	2050.	0.	0.	2800.	0.	0.	2800.	4100.	0.	0.	0.	.68	48.	29.1	D	19.7	4.7
12	2	2560.	692.	0.	3492.	692.	0.	3492.	4400.	0.	0.	0.	.79	43.	40.8	E	17.2	3.8
13	2	1400.	0.	384.	3492.	0.	384.	3492.	4400.	0.	0.	0.	.79	38.	46.1	F	37.2	3.6
14	2	1320.	0.	0.	3108.	0.	0.	3108.	4400.	0.	0.	0.	.71	26.	59.0	F	13.6	4.3
15	3	540.	748.	1176.	3856.	748.	1176.	3856.	5080.	520.	0.	0.	.76	27.	47.4	F	12.4	3.9
16	2	1230.	0.	0.	2680.	0.	0.	3295.	4400.	0.	* 765.	-615.	.75	17.	99.1	F	16.2	5.4
17	2	890.	648.	0.	3328.	648.	0.	3943.	4400.	0.	** 890.	-615.	.90	27.	73.7	F	19.8	3.6
18	2	4840.	256.	636.	3584.	256.	636.	4199.	4400.	0.	** 4840.	-615.	.95	33.	63.2	F	17.1	3.0
19	2	530.	0.	0.	2948.	0.	0.	3563.	3800.	0.	** 530.	-615.	.94	31.	57.2	F	20.8	3.1
20	2	1040.	652.	0.	3600.	652.	0.	4215.	4377.	23.	** 1040.	-615.	.96	34.	61.3	F	21.5	2.9
21	3	2810.	872.	1172.	4472.	872.	1333.	5087.	5087.	513.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	3300.	0.	0.	3754.	4400.	0.	0.	0.	.85	60.	31.5	D	18.1	3.5
23	3	2390.	260.	160.	3560.	260.	181.	4014.	5556.	44.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	1544.	3400.	0.	1500.	3833.	5590.	10.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1856.	1856.	0.	2093.	2093.	3600.	0.	0.	0.	.58	62.	16.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 47.	29.5		17.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	193. VEH-HRS	218. PASS-HRS	5172. VEH-HRS	5855. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	408. VEH-HRS	462. PASS-HRS	4202. VEH-HRS	4756. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	601. VEH-HRS	680. PASS-HRS	9403. VEH-HRS	10645. PASS-HRS
TOTAL TRAV DISTANCE =	9072. VEH-MI.	10269. PASS-MI.	191685. VEH-MI.	216987. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		37. MPH.	
AVERAGE DENSITY =	30. VPMPL		41. VPMPL	
TOTAL FUEL =	689. GALLONS		13267. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		978. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1662.	407.86	154.48	2.37	14.59	2.55	19.51

```
QUEUE SPLIT SECTION 19
QUEUE SPLIT SECTION 18
QUEUE CLEAR SECTION  20 FT=   323
QUEUE CLEAR SECTION  19 FT=   192
QUEUE CLEAR SECTION  18 FT=  1720
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1588.	80.	1588.	1588.	80.	1588.	4400.	0.	0.	0.	.36	62.	12.8	B	13.6	4.8
2	2	1970.	0.	0.	1508.	0.	0.	1508.	4100.	0.	0.	0.	.37	62.	12.2	B	13.6	4.8
3	2	1830.	376.	48.	1884.	376.	48.	1884.	4100.	0.	0.	0.	.46	62.	15.2	B	13.6	4.8
4	2	2010.	0.	0.	1836.	0.	0.	1836.	4100.	0.	0.	0.	.45	62.	14.8	B	13.6	4.8
5	3	2445.	536.	280.	2372.	536.	280.	2372.	5600.	0.	0.	0.	.42	62.	12.8	B	13.6	4.8
6	2	1890.	0.	0.	2092.	0.	0.	2092.	4100.	0.	0.	0.	.51	62.	16.9	B	13.6	4.8
7	3	5320.	592.	544.	2684.	592.	544.	2684.	5600.	0.	0.	0.	.48	62.	14.4	B	13.6	4.8
8	2	880.	0.	0.	2140.	0.	0.	2140.	3900.	0.	0.	0.	.55	62.	17.3	B	14.9	4.8
9	2	1125.	224.	0.	2364.	224.	0.	2364.	3900.	0.	0.	0.	.61	62.	19.1	C	19.9	4.8
10	2	6320.	604.	312.	2968.	604.	312.	2968.	4100.	0.	0.	0.	.72	62.	23.9	C	19.9	4.8
11	2	2050.	0.	0.	2656.	0.	0.	2656.	4100.	0.	0.	0.	.65	62.	21.4	C	19.9	4.8
12	2	2560.	880.	0.	3536.	880.	0.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	17.6	4.2
13	2	1400.	0.	368.	3536.	0.	368.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	33.2	4.2
14	2	1320.	0.	0.	3168.	0.	0.	3168.	4400.	0.	0.	0.	.72	62.	25.6	C	14.9	4.7
15	3	540.	752.	1160.	3920.	752.	1160.	3920.	5072.	528.	0.	0.	.77	62.	21.1	C	12.6	4.8
16	2	1230.	0.	0.	2760.	0.	0.	2760.	4400.	0.	0.	0.	.63	47.	29.2	D	19.4	4.9
17	2	890.	632.	0.	3392.	632.	0.	3392.	4400.	0.	0.	0.	.77	37.	46.0	F	19.6	4.3
18	2	4840.	272.	604.	3664.	272.	604.	4024.	4400.	0.	0.	-360.	.91	31.	64.6	F	16.6	3.4
19	2	530.	0.	0.	3060.	0.	0.	3436.	3800.	0.	0.	-16.	.90	33.	51.7	F	20.4	3.4
20	2	1040.	528.	0.	3588.	528.	0.	4003.	4381.	19.	0.	-38.	.91	35.	57.9	F	20.7	3.3
21	3	2810.	824.	1004.	4412.	824.	1098.	4827.	5180.	420.	0.	0.	.93	56.	28.6	D	27.5	2.7
22	2	1850.	0.	0.	3408.	0.	0.	3728.	4400.	0.	0.	0.	.85	60.	31.2	D	18.0	3.6
23	3	2390.	288.	148.	3696.	288.	161.	4016.	5542.	58.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	1384.	3548.	0.	1500.	3855.	5583.	17.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2164.	2164.	0.	2352.	2352.	3600.	0.	0.	0.	.65	62.	19.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.93	LOWEST LOS = F		AVG = 53.	23.9		17.2	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	154. VEH-HRS	174. PASS-HRS	5326. VEH-HRS	6029. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	416. VEH-HRS	470. PASS-HRS	4617. VEH-HRS	5227. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	569. VEH-HRS	644. PASS-HRS	9973. VEH-HRS	11289. PASS-HRS
TOTAL TRAV DISTANCE =	8165. VEH-MI.	9243. PASS-MI.	199850. VEH-MI.	226230. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		38. MPH.	
AVERAGE DENSITY =	24. VPMPL		40. VPMPL	
TOTAL FUEL =	633. GALLONS		13900. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		1033. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1662.	415.50	157.37	2.42	14.87	2.59	19.88

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2356.	60.	2356.	2356.	60.	2356.	4400.	0.	0.	0.	.54	62.	19.0	C	13.6	4.8
2	2	1970.	0.	0.	2296.	0.	0.	2296.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
3	2	1830.	396.	76.	2692.	396.	76.	2692.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
4	2	2010.	0.	0.	2616.	0.	0.	2616.	4100.	0.	0.	0.	.64	62.	21.1	C	13.6	4.8
5	3	2445.	528.	356.	3144.	528.	356.	3144.	5600.	0.	0.	0.	.56	62.	16.9	B	13.6	4.8
6	2	1890.	0.	0.	2788.	0.	0.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
7	3	5320.	568.	548.	3356.	568.	548.	3356.	5600.	0.	0.	0.	.60	62.	18.0	C	13.6	4.8
8	2	880.	0.	0.	2808.	0.	0.	2808.	3900.	0.	0.	0.	.72	62.	22.6	C	14.9	4.8
9	2	1125.	224.	0.	3032.	224.	0.	3032.	3900.	0.	0.	0.	.78	62.	24.5	C	19.9	4.8
10	2	6320.	556.	264.	3588.	556.	264.	3588.	4100.	0.	0.	0.	.88	59.	30.5	D	21.2	3.3
11	2	2050.	0.	0.	3324.	0.	0.	3324.	4100.	0.	0.	0.	.81	61.	27.3	D	20.5	4.1
12	2	2560.	772.	0.	4096.	772.	0.	4096.	4400.	0.	0.	0.	.93	56.	36.4	E	19.0	2.7
13	2	1400.	0.	408.	4096.	0.	408.	4096.	4400.	0.	0.	0.	.93	56.	36.4	E	37.0	2.7
14	2	1320.	0.	0.	3688.	0.	0.	3688.	4400.	0.	0.	0.	.84	60.	30.7	D	15.5	3.7
15	3	540.	828.	1172.	4516.	828.	1172.	4516.	4988.	612.	0.	0.	.91	62.	24.3	C	12.6	4.8
16	2	1230.	0.	0.	3344.	0.	0.	3344.	4400.	0.	0.	0.	.76	62.	27.1	D	20.1	4.5
17	2	890.	708.	0.	4052.	708.	0.	4052.	4400.	0.	0.	0.	.92	57.	35.7	E	21.8	2.8
18	2	4840.	256.	680.	4308.	256.	680.	4308.	4400.	0.	0.	0.	.98	53.	40.5	E	19.7	2.4
19	2	530.	0.	0.	3628.	0.	0.	3628.	3800.	0.	0.	0.	.95	55.	33.1	D	22.4	2.4
20	2	1040.	556.	0.	4184.	556.	0.	4184.	4373.	27.	0.	0.	.96	55.	38.2	E	22.4	2.4
21	3	2810.	860.	1056.	5044.	860.	1056.	5044.	5078.	522.	0.	0.	.99	52.	32.3	D	30.0	2.3
22	2	1850.	0.	0.	3988.	0.	0.	3988.	4400.	0.	0.	0.	.91	58.	34.7	D	18.6	3.0
23	3	2390.	268.	124.	4256.	268.	124.	4256.	5536.	64.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1584.	4132.	0.	1500.	4132.	5577.	23.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2548.	2548.	0.	2548.	2548.	3600.	0.	0.	0.	.71	62.	20.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.99		LOWEST LOS = E	AVG = 59.	25.8		17.5	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	168. VEH-HRS	190. PASS-HRS	5494. VEH-HRS	6219. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	418. VEH-HRS	473. PASS-HRS	5035. VEH-HRS	5700. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	586. VEH-HRS	664. PASS-HRS	10559. VEH-HRS	11953. PASS-HRS
TOTAL TRAV DISTANCE =	9892. VEH-MI.	11197. PASS-MI.	209742. VEH-MI.	237428. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		38. MPH.	
AVERAGE DENSITY =	26. VPMPL		39. VPMPL	
TOTAL FUEL =	725. GALLONS		14625. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		1091. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1683.	418.25	158.41	2.43	14.97	2.61	20.01

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2168.	44.	2168.	2168.	44.	2168.	4400.	0.	0.	0.	.49	62.	17.5	B	13.6	4.8
2	2	1970.	0.	0.	2124.	0.	0.	2124.	4100.	0.	0.	0.	.52	62.	17.1	B	13.6	4.8
3	2	1830.	472.	52.	2596.	472.	52.	2596.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
4	2	2010.	0.	0.	2544.	0.	0.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
5	3	2445.	604.	328.	3148.	604.	328.	3148.	5574.	26.	0.	0.	.56	62.	16.9	B	13.6	4.8
6	2	1890.	0.	0.	2820.	0.	0.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
7	3	5320.	532.	476.	3352.	532.	476.	3352.	5600.	0.	0.	0.	.60	62.	18.0	C	13.6	4.8
8	2	880.	0.	0.	2876.	0.	0.	2876.	3900.	0.	0.	0.	.74	62.	23.2	C	14.9	4.8
9	2	1125.	208.	0.	3084.	208.	0.	3084.	3900.	0.	0.	0.	.79	61.	25.2	C	20.3	4.3
10	2	6320.	520.	280.	3604.	520.	280.	3604.	4100.	0.	0.	0.	.88	59.	30.7	D	21.3	3.3
11	2	2050.	0.	0.	3324.	0.	0.	3324.	4100.	0.	0.	0.	.81	61.	27.3	D	20.5	4.1
12	2	2560.	604.	0.	3928.	604.	0.	3928.	4400.	0.	0.	0.	.89	58.	33.8	D	18.5	3.2
13	2	1400.	0.	392.	3928.	0.	392.	3928.	4400.	0.	0.	0.	.89	58.	33.8	D	35.5	3.2
14	2	1320.	0.	0.	3536.	0.	0.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	15.3	4.2
15	3	540.	860.	1124.	4396.	860.	1124.	4396.	4960.	640.	0.	0.	.89	62.	23.6	C	12.6	4.8
16	2	1230.	0.	0.	3272.	0.	0.	3272.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
17	2	890.	696.	0.	3968.	696.	0.	3968.	4400.	0.	0.	0.	.90	58.	34.4	D	21.5	3.1
18	2	4840.	280.	536.	4248.	280.	536.	4174.	4400.	0.	* 628.	74.	.95	53.	39.1	F	19.4	2.4
19	2	530.	0.	0.	3712.	0.	0.	3638.	3800.	0.	** 530.	74.	.96	43.	42.5	F	22.1	2.6
20	2	1040.	552.	0.	4264.	552.	0.	4190.	4373.	27.	** 1040.	74.	.96	37.	56.7	F	21.6	2.8
21	3	2810.	876.	1076.	5140.	876.	1060.	5066.	5066.	534.	0.	0.	1.00	52.	32.8	E	30.3	2.3
22	2	1850.	0.	0.	4064.	0.	0.	4005.	4400.	0.	0.	0.	.91	57.	34.9	D	18.7	3.0
23	3	2390.	292.	124.	4356.	292.	122.	4297.	5532.	68.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1412.	4232.	0.	1500.	4175.	5575.	25.	0.	0.	.75	62.	22.4	C	17.2	4.8
25	2	1400.	0.	2820.	2820.	0.	2782.	2782.	3600.	0.	0.	0.	.77	62.	22.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	25.6		17.5	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	167. VEH-HRS	189. PASS-HRS	5661. VEH-HRS	6408. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	418. VEH-HRS	473. PASS-HRS	5453. VEH-HRS	6173. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	585. VEH-HRS	662. PASS-HRS	11143. VEH-HRS	12614. PASS-HRS
TOTAL TRAV DISTANCE =	9721. VEH-MI.	11005. PASS-MI.	219463. VEH-MI.	248432. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		39. MPH.	
AVERAGE DENSITY =	26. VPMPL		39. VPMPL	
TOTAL FUEL =	714. GALLONS		15339. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		1149. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1657.	417.52	158.14	2.43	14.94	2.61	19.98

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2120.	52.	2120.	2120.	52.	2120.	4400.	0.	0.	0.	.48	62.	17.1	B	13.6	4.8
2	2	1970.	0.	0.	2068.	0.	0.	2068.	4100.	0.	0.	0.	.50	62.	16.7	B	13.6	4.8
3	2	1830.	588.	112.	2656.	588.	112.	2656.	4087.	13.	0.	0.	.65	62.	21.4	C	13.6	4.8
4	2	2010.	0.	0.	2544.	0.	0.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
5	3	2445.	612.	376.	3156.	612.	376.	3156.	5539.	61.	0.	0.	.57	62.	17.0	B	13.6	4.8
6	2	1890.	0.	0.	2780.	0.	0.	2780.	4100.	0.	0.	0.	.68	62.	22.4	C	13.6	4.8
7	3	5320.	580.	516.	3360.	580.	516.	3360.	5600.	0.	0.	0.	.60	62.	18.1	C	13.6	4.8
8	2	880.	0.	0.	2844.	0.	0.	2844.	3900.	0.	0.	0.	.73	62.	22.9	C	14.9	4.8
9	2	1125.	196.	0.	3040.	196.	0.	3040.	3900.	0.	0.	0.	.78	62.	24.5	C	19.9	4.8
10	2	6320.	584.	316.	3624.	584.	316.	3624.	4100.	0.	0.	0.	.88	59.	31.0	D	21.3	3.3
11	2	2050.	0.	0.	3308.	0.	0.	3308.	4100.	0.	0.	0.	.81	61.	27.2	D	20.5	4.1
12	2	2560.	592.	0.	3900.	592.	0.	3900.	4400.	0.	0.	0.	.89	58.	33.4	D	18.4	3.2
13	2	1400.	0.	444.	3900.	0.	444.	3900.	4400.	0.	0.	0.	.89	58.	33.4	D	35.3	3.2
14	2	1320.	0.	0.	3456.	0.	0.	3456.	4400.	0.	0.	0.	.79	61.	28.2	D	15.1	4.4
15	3	540.	836.	1172.	4292.	836.	1172.	4292.	4992.	608.	0.	0.	.86	62.	23.1	C	12.6	4.8
16	2	1230.	0.	0.	3120.	0.	0.	3120.	4400.	0.	0.	0.	.71	62.	25.2	C	20.0	4.8
17	2	890.	692.	0.	3812.	692.	0.	3812.	4400.	0.	0.	0.	.87	59.	32.2	D	21.1	3.4
18	2	4840.	268.	612.	4080.	268.	612.	4080.	4400.	0.	0.	0.	.93	55.	36.8	E	18.9	2.8
19	2	530.	0.	0.	3468.	0.	0.	3468.	3800.	0.	0.	0.	.91	40.	43.2	E	21.2	3.1
20	2	1040.	576.	0.	4044.	576.	0.	4123.	4372.	28. *	368.	-79.	.94	34.	61.4	F	21.1	3.1
21	3	2810.	884.	1208.	4928.	884.	1227.	5007.	5007.	593.	0.	0.	1.00	52.	32.4	E	30.3	2.3
22	2	1850.	0.	0.	3720.	0.	0.	3780.	4400.	0.	0.	0.	.86	59.	31.8	D	18.1	3.5
23	3	2390.	244.	176.	3964.	244.	179.	4024.	5544.	56.	0.	0.	.73	62.	21.6	C	24.1	4.8
24	3	960.	0.	1492.	3788.	0.	1500.	3845.	5583.	17.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2296.	2296.	0.	2331.	2331.	3600.	0.	0.	0.	.65	62.	18.8	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	25.1		17.4	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	163. VEH-HRS	185. PASS-HRS	5824. VEH-HRS	6593. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	415. VEH-HRS	469. PASS-HRS	5868. VEH-HRS	6642. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	578. VEH-HRS	654. PASS-HRS	11721. VEH-HRS	13268. PASS-HRS
TOTAL TRAV DISTANCE =	9514. VEH-MI.	10769. PASS-MI.	228977. VEH-MI.	259202. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		39. MPH.	
AVERAGE DENSITY =	25. VPMPL		38. VPMPL	
TOTAL FUEL =	705. GALLONS		16044. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		1206. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1660.	414.63	157.04	2.41	14.84	2.59	19.84

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	132.	150.	15.	17.	147.	167.	8200.	9282.	55.7	499.	2.	27.	11.	6:00
2	166.	188.	44.	50.	209.	237.	10003.	11323.	47.8	608.	2.	29.	13.	6:15
3	216.	245.	74.	84.	290.	328.	11559.	13084.	39.9	705.	2.	28.	13.	6:30
4	251.	284.	108.	123.	360.	407.	11419.	12926.	31.8	723.	3.	30.	13.	6:45
5	246.	278.	146.	165.	391.	443.	9583.	10848.	24.5	630.	3.	31.	11.	7:00
6	251.	284.	171.	194.	422.	478.	10036.	11361.	23.8	645.	3.	30.	12.	7:15
7	284.	321.	178.	201.	462.	523.	10884.	12321.	23.6	720.	3.	34.	12.	7:30
8	306.	346.	186.	211.	492.	557.	10317.	11679.	21.0	704.	4.	35.	12.	7:45
9	344.	389.	204.	231.	548.	621.	10150.	11489.	18.5	725.	4.	38.	12.	8:00
10	347.	393.	221.	250.	568.	644.	10381.	11751.	18.3	742.	4.	39.	12.	8:15
11	367.	416.	241.	273.	608.	688.	9776.	11067.	16.1	728.	4.	40.	12.	8:30
12	319.	361.	262.	297.	581.	657.	10539.	11930.	18.1	748.	4.	39.	12.	8:45
13	306.	347.	283.	321.	590.	667.	10882.	12319.	18.5	774.	4.	40.	13.	9:00
14	331.	375.	302.	342.	633.	716.	10428.	11804.	16.5	770.	5.	41.	13.	9:15
15	327.	370.	316.	357.	643.	728.	10151.	11491.	15.8	755.	5.	41.	12.	9:30
16	290.	329.	331.	375.	622.	704.	9743.	11029.	15.7	716.	4.	39.	12.	9:45
17	267.	302.	356.	402.	622.	704.	9401.	10641.	15.1	700.	4.	39.	12.	10:00
18	229.	259.	386.	437.	615.	696.	9163.	10373.	14.9	686.	4.	39.	12.	10:15
19	193.	218.	408.	462.	601.	680.	9072.	10269.	15.1	689.	4.	40.	13.	10:30
20	154.	174.	416.	470.	569.	644.	8165.	9243.	14.3	633.	4.	39.	12.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	168.	190.	418.	473.	586.	664.	9892.	11197.	16.9	725.	4.	40.	14.	11:00
22	167.	189.	418.	473.	585.	662.	9721.	11005.	16.6	714.	4.	40.	14.	11:15
23	163.	185.	415.	469.	578.	654.	9514.	10769.	16.5	705.	4.	40.	14.	11:30
TOTAL	5824.	6593.	5897.	6676.	11721.	13268.	228977.	259202.	39.3	16044.	85.	837.	285.	

Opening Year (2025) No Build
Northbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2240.	72.	2240.	2240.	72.	2240.	4100.	0.	0.	0.	.55	62.	18.1	C	13.6	4.8
2	2	1970.	0.	0.	2168.	0.	0.	2168.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
3	2	1830.	240.	112.	2408.	240.	112.	2408.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
4	2	2010.	0.	0.	2296.	0.	0.	2296.	4400.	0.	0.	0.	.52	62.	18.5	C	13.6	4.8
5	3	2445.	752.	368.	3048.	752.	368.	3048.	5503.	97.	0.	0.	.55	62.	16.4	B	13.6	4.8
6	2	1890.	0.	0.	2680.	0.	0.	2680.	4400.	0.	0.	0.	.61	62.	21.6	C	13.6	4.8
7	3	5320.	452.	588.	3132.	452.	588.	3132.	5600.	0.	0.	0.	.56	62.	16.8	B	13.6	4.8
8	2	880.	0.	0.	2544.	0.	0.	2544.	4400.	0.	0.	0.	.58	62.	20.5	C	14.9	4.8
9	2	1125.	192.	0.	2736.	192.	0.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	19.9	4.8
10	2	6320.	528.	364.	3264.	528.	364.	3264.	4250.	0.	0.	0.	.77	62.	26.5	D	20.2	4.5
11	2	2050.	0.	0.	2900.	0.	0.	2900.	4100.	0.	0.	0.	.71	62.	23.4	C	19.9	4.8
12	2	2560.	1104.	0.	4004.	1104.	0.	4004.	4400.	0.	0.	0.	.91	57.	34.9	D	18.7	3.0
13	2	1400.	0.	376.	4004.	0.	376.	4004.	4400.	0.	0.	0.	.91	57.	34.9	D	36.1	3.0
14	2	1320.	0.	0.	3628.	0.	0.	3628.	4400.	0.	0.	0.	.82	60.	30.0	D	15.4	3.9
15	3	540.	676.	1244.	4304.	676.	1244.	4304.	5120.	480.	0.	0.	.84	62.	23.1	C	12.6	4.8
16	2	1230.	0.	0.	3060.	0.	0.	3060.	4400.	0.	0.	0.	.70	62.	24.7	C	19.9	4.8
17	2	890.	612.	0.	3672.	612.	0.	3672.	4400.	0.	0.	0.	.83	60.	30.5	D	20.8	3.7
18	2	4840.	252.	696.	3924.	252.	696.	3924.	4400.	0.	0.	0.	.89	58.	33.7	D	18.4	3.2
19	2	530.	0.	0.	3228.	0.	0.	3228.	3800.	0.	0.	0.	.85	60.	27.0	D	21.0	3.6
20	2	1040.	364.	0.	3592.	364.	0.	3592.	4387.	13.	0.	0.	.82	61.	29.6	D	20.6	4.0
21	3	2810.	500.	712.	4092.	500.	712.	4092.	5558.	42.	0.	0.	.74	62.	22.0	C	24.1	4.8
22	2	1850.	0.	0.	3380.	0.	0.	3380.	4400.	0.	0.	0.	.77	62.	27.5	D	17.4	4.5
23	3	2390.	304.	96.	3684.	304.	96.	3684.	5536.	64.	0.	0.	.67	62.	19.8	C	24.1	4.8
24	3	960.	0.	1460.	3588.	0.	1460.	3588.	5581.	19.	0.	0.	.64	62.	19.3	C	17.2	4.8
25	2	1400.	0.	2128.	2128.	0.	2128.	2128.	3600.	0.	0.	0.	.59	62.	17.2	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.91		LOWEST LOS = D	AVG = 61.	23.7		17.5	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 1 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	132. VEH-HRS	164. PASS-HRS	132. VEH-HRS	164. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	132. VEH-HRS	164. PASS-HRS	132. VEH-HRS	164. PASS-HRS
TOTAL TRAV DISTANCE =	8021. VEH-MI.	9978. PASS-MI.	8021. VEH-MI.	9978. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		24. VPMPL	
TOTAL FUEL =	460. GALLONS		460. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		35. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2372.	60.	2372.	2372.	60.	2372.	4100.	0.	0.	0.	.58	62.	19.1	C	13.6	4.8
2	2	1970.	0.	0.	2312.	0.	0.	2312.	4100.	0.	0.	0.	.56	62.	18.6	C	13.6	4.8
3	2	1830.	392.	108.	2704.	392.	108.	2704.	4100.	0.	0.	0.	.66	62.	21.8	C	13.6	4.8
4	2	2010.	0.	0.	2596.	0.	0.	2596.	4400.	0.	0.	0.	.59	62.	20.9	C	13.6	4.8
5	3	2445.	444.	384.	3040.	444.	384.	3040.	5600.	0.	0.	0.	.54	62.	16.3	B	13.6	4.8
6	2	1890.	0.	0.	2656.	0.	0.	2656.	4400.	0.	0.	0.	.60	62.	21.4	C	13.6	4.8
7	3	5320.	528.	584.	3184.	528.	584.	3184.	5600.	0.	0.	0.	.57	62.	17.1	B	13.6	4.8
8	2	880.	0.	0.	2600.	0.	0.	2600.	4400.	0.	0.	0.	.59	62.	21.0	C	14.9	4.8
9	2	1125.	160.	0.	2760.	160.	0.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	19.9	4.8
10	2	6320.	572.	320.	3332.	572.	320.	3332.	4250.	0.	0.	0.	.78	61.	27.2	D	20.3	4.4
11	2	2050.	0.	0.	3012.	0.	0.	3012.	4100.	0.	0.	0.	.73	62.	24.3	C	19.9	4.8
12	2	2560.	1012.	0.	4024.	1012.	0.	4024.	4400.	0.	0.	0.	.91	57.	35.2	E	18.7	2.9
13	2	1400.	0.	468.	4024.	0.	468.	4024.	4400.	0.	0.	0.	.91	57.	35.2	E	36.3	2.9
14	2	1320.	0.	0.	3556.	0.	0.	3556.	4400.	0.	0.	0.	.81	61.	29.2	D	15.3	4.1
15	3	540.	844.	1208.	4400.	844.	1208.	4400.	4988.	612.	0.	0.	.88	62.	23.7	C	12.6	4.8
16	2	1230.	0.	0.	3192.	0.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	20.0	4.7
17	2	890.	668.	0.	3860.	668.	0.	3860.	4400.	0.	0.	0.	.88	59.	32.8	D	21.2	3.3
18	2	4840.	288.	648.	4148.	288.	648.	4148.	4400.	0.	0.	0.	.94	56.	37.3	E	19.2	2.5
19	2	530.	0.	0.	3500.	0.	0.	3500.	3800.	0.	0.	0.	.92	57.	30.8	D	21.8	2.8
20	2	1040.	352.	0.	3852.	352.	0.	3852.	4385.	15.	0.	0.	.88	59.	32.8	D	21.3	3.3
21	3	2810.	536.	792.	4388.	536.	792.	4388.	5512.	88.	0.	0.	.80	62.	23.6	C	24.1	4.8
22	2	1850.	0.	0.	3596.	0.	0.	3596.	4400.	0.	0.	0.	.82	61.	29.7	D	17.7	4.0
23	3	2390.	316.	232.	3912.	316.	232.	3912.	5532.	68.	0.	0.	.71	62.	21.0	C	24.1	4.8
24	3	960.	0.	1480.	3680.	0.	1480.	3680.	5579.	21.	0.	0.	.66	62.	19.8	C	17.2	4.8
25	2	1400.	0.	2200.	2200.	0.	2200.	2200.	3600.	0.	0.	0.	.61	62.	17.7	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.94 LOWEST LOS = E AVG = 60. 24.9 17.6 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	138. VEH-HRS	172. PASS-HRS	270. VEH-HRS	336. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	138. VEH-HRS	172. PASS-HRS	270. VEH-HRS	336. PASS-HRS
TOTAL TRAV DISTANCE =	8336. VEH-MI.	10370. PASS-MI.	16357. VEH-MI.	20348. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		24. VPMPL	
TOTAL FUEL =	474. GALLONS		934. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		69. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2600.	104.	2600.	2600.	104.	2600.	4100.	0.	0.	0.	.63	62.	21.0	C	13.6	4.8
2	2	1970.	0.	0.	2496.	0.	0.	2496.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
3	2	1830.	356.	132.	2852.	356.	132.	2852.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
4	2	2010.	0.	0.	2720.	0.	0.	2720.	4400.	0.	0.	0.	.62	62.	21.9	C	13.6	4.8
5	3	2445.	392.	364.	3112.	392.	364.	3112.	5600.	0.	0.	0.	.56	62.	16.7	B	13.6	4.8
6	2	1890.	0.	0.	2748.	0.	0.	2748.	4400.	0.	0.	0.	.62	62.	22.2	C	13.6	4.8
7	3	5320.	548.	452.	3296.	548.	452.	3296.	5600.	0.	0.	0.	.59	62.	17.7	B	13.6	4.8
8	2	880.	0.	0.	2844.	0.	0.	2844.	4400.	0.	0.	0.	.65	62.	22.9	C	14.9	4.8
9	2	1125.	180.	0.	3024.	180.	0.	3024.	4400.	0.	0.	0.	.69	62.	24.4	C	19.9	4.8
10	2	6320.	556.	300.	3580.	556.	300.	3580.	4250.	0.	0.	0.	.84	60.	29.8	D	20.9	3.6
11	2	2050.	0.	0.	3280.	0.	0.	3280.	4100.	0.	0.	0.	.80	61.	26.9	D	20.4	4.2
12	2	2560.	772.	0.	4052.	772.	0.	4052.	4400.	0.	0.	0.	.92	57.	35.7	E	18.8	2.8
13	2	1400.	0.	480.	4052.	0.	480.	4052.	4400.	0.	0.	0.	.92	57.	35.7	E	36.5	2.8
14	2	1320.	0.	0.	3572.	0.	0.	3572.	4400.	0.	0.	0.	.81	61.	29.4	D	15.3	4.1
15	3	540.	788.	1324.	4360.	788.	1324.	4360.	5052.	548.	0.	0.	.86	62.	23.4	C	12.6	4.8
16	2	1230.	0.	0.	3036.	0.	0.	3036.	4400.	0.	0.	0.	.69	62.	24.5	C	19.9	4.8
17	2	890.	632.	0.	3668.	632.	0.	3668.	4400.	0.	0.	0.	.83	60.	30.4	D	20.8	3.8
18	2	4840.	224.	716.	3892.	224.	716.	3892.	4400.	0.	0.	0.	.88	59.	33.3	D	18.4	3.3
19	2	530.	0.	0.	3176.	0.	0.	3176.	3800.	0.	0.	0.	.84	60.	26.4	D	20.8	3.7
20	2	1040.	384.	0.	3560.	384.	0.	3560.	4387.	13.	0.	0.	.81	61.	29.3	D	20.5	4.1
21	3	2810.	664.	712.	4224.	664.	712.	4224.	5475.	125.	0.	0.	.77	62.	22.7	C	24.1	4.8
22	2	1850.	0.	0.	3512.	0.	0.	3512.	4400.	0.	0.	0.	.80	61.	28.8	D	17.6	4.2
23	3	2390.	348.	104.	3860.	348.	104.	3860.	5523.	77.	0.	0.	.70	62.	20.8	C	24.1	4.8
24	3	960.	0.	1592.	3756.	0.	1500.	3756.	5577.	23.	0.	0.	.67	62.	20.2	C	17.2	4.8
25	2	1400.	0.	2164.	2164.	0.	2164.	2164.	3600.	0.	0.	0.	.60	62.	17.5	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.92		LOWEST LOS = E	AVG = 61.	25.1		17.5	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	173. PASS-HRS	409. VEH-HRS	509. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	3. VEH-HRS	4. PASS-HRS	3. VEH-HRS	4. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	177. PASS-HRS	412. VEH-HRS	513. PASS-HRS
TOTAL TRAV DISTANCE =	8456. VEH-MI.	10520. PASS-MI.	24813. VEH-MI.	30867. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		25. VPMPL	
TOTAL FUEL =	485. GALLONS		1419. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		105. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	23.	2.88	1.09	0.02	0.10	0.02	0.14

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2404.	108.	2404.	2404.	108.	2404.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
2	2	1970.	0.	0.	2296.	0.	0.	2296.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
3	2	1830.	276.	152.	2572.	276.	152.	2572.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
4	2	2010.	0.	0.	2420.	0.	0.	2420.	4400.	0.	0.	0.	.55	62.	19.5	C	13.6	4.8
5	3	2445.	524.	420.	2944.	524.	420.	2944.	5583.	17.	0.	0.	.53	62.	15.8	B	13.6	4.8
6	2	1890.	0.	0.	2524.	0.	0.	2524.	4400.	0.	0.	0.	.57	62.	20.4	C	13.6	4.8
7	3	5320.	536.	448.	3060.	536.	448.	3060.	5600.	0.	0.	0.	.55	62.	16.5	B	13.6	4.8
8	2	880.	0.	0.	2612.	0.	0.	2612.	4400.	0.	0.	0.	.59	62.	21.1	C	14.9	4.8
9	2	1125.	172.	0.	2784.	172.	0.	2784.	4400.	0.	0.	0.	.63	62.	22.5	C	19.9	4.8
10	2	6320.	480.	352.	3264.	480.	352.	3264.	4250.	0.	0.	0.	.77	62.	26.5	D	20.2	4.5
11	2	2050.	0.	0.	2912.	0.	0.	2912.	4100.	0.	0.	0.	.71	62.	23.5	C	19.9	4.8
12	2	2560.	740.	0.	3652.	740.	0.	3652.	4400.	0.	0.	0.	.83	60.	30.3	D	17.9	3.8
13	2	1400.	0.	456.	3652.	0.	456.	3652.	4400.	0.	0.	0.	.83	60.	30.3	D	33.8	3.8
14	2	1320.	0.	0.	3196.	0.	0.	3196.	4400.	0.	0.	0.	.73	62.	25.8	C	14.9	4.7
15	3	540.	960.	1436.	4156.	960.	1436.	4156.	4972.	628.	0.	0.	.84	62.	22.3	C	12.6	4.8
16	2	1230.	0.	0.	2720.	0.	0.	2720.	4400.	0.	0.	0.	.62	62.	21.9	C	19.9	4.8
17	2	890.	564.	0.	3284.	564.	0.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	20.1	4.6
18	2	4840.	228.	800.	3512.	228.	800.	3512.	4400.	0.	0.	0.	.80	61.	28.8	D	17.6	4.2
19	2	530.	0.	0.	2712.	0.	0.	2712.	3800.	0.	0.	0.	.71	62.	21.9	C	19.9	4.8
20	2	1040.	452.	0.	3164.	452.	0.	3164.	4390.	10.	0.	0.	.72	62.	25.6	C	20.0	4.7
21	3	2810.	576.	804.	3740.	576.	804.	3740.	5506.	94.	0.	0.	.68	62.	20.1	C	24.1	4.8
22	2	1850.	0.	0.	2936.	0.	0.	2936.	4400.	0.	0.	0.	.67	62.	23.7	C	17.2	4.8
23	3	2390.	588.	228.	3524.	588.	228.	3524.	5524.	76.	0.	0.	.64	62.	18.9	C	24.1	4.8
24	3	960.	0.	1616.	3296.	0.	1500.	3296.	5592.	8.	0.	0.	.59	62.	17.7	B	17.2	4.8
25	2	1400.	0.	1680.	1680.	0.	1680.	1680.	3600.	0.	0.	0.	.47	62.	13.5	B	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.84	LOWEST LOS = D		AVG = 62.	22.3	17.1	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	124. VEH-HRS	154. PASS-HRS	533. VEH-HRS	663. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	9. VEH-HRS	12. PASS-HRS	12. VEH-HRS	15. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	133. VEH-HRS	166. PASS-HRS	545. VEH-HRS	678. PASS-HRS
TOTAL TRAV DISTANCE =	7639. VEH-MI.	9503. PASS-MI.	32452. VEH-MI.	40371. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	449. GALLONS		1868. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		141. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	52.	9.38	3.55	0.05	0.34	0.06	0.45

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2500.	104.	2500.	2500.	104.	2500.	4100.	0.	0.	0.	.61	62.	20.2	C	13.6	4.8
2	2	1970.	0.	0.	2396.	0.	0.	2396.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
3	2	1830.	252.	200.	2648.	252.	200.	2648.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
4	2	2010.	0.	0.	2448.	0.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	13.6	4.8
5	3	2445.	728.	316.	3176.	728.	316.	3176.	5527.	73.	0.	0.	.57	62.	17.1	B	13.6	4.8
6	2	1890.	0.	0.	2860.	0.	0.	2860.	4400.	0.	0.	0.	.65	62.	23.1	C	13.6	4.8
7	3	5320.	576.	628.	3436.	576.	628.	3436.	5600.	0.	0.	0.	.61	62.	18.5	C	13.6	4.8
8	2	880.	0.	0.	2808.	0.	0.	2808.	4400.	0.	0.	0.	.64	62.	22.6	C	14.9	4.8
9	2	1125.	216.	0.	3024.	216.	0.	3024.	4400.	0.	0.	0.	.69	62.	24.4	C	19.9	4.8
10	2	6320.	456.	360.	3480.	456.	360.	3480.	4250.	0.	0.	0.	.82	61.	28.7	D	20.6	4.0
11	2	2050.	0.	0.	3120.	0.	0.	3120.	4100.	0.	0.	0.	.76	62.	25.3	C	20.1	4.5
12	2	2560.	632.	0.	3752.	632.	0.	3752.	4400.	0.	0.	0.	.85	60.	31.4	D	18.1	3.5
13	2	1400.	0.	452.	3752.	0.	452.	3752.	4400.	0.	0.	0.	.85	60.	31.4	D	34.3	3.5
14	2	1320.	0.	0.	3300.	0.	0.	3300.	4400.	0.	0.	0.	.75	62.	26.7	D	15.0	4.6
15	3	540.	1048.	1168.	4348.	1048.	1168.	4348.	4832.	768.	0.	0.	.90	62.	23.4	C	12.6	4.8
16	2	1230.	0.	0.	3180.	0.	0.	3180.	4400.	0.	0.	0.	.72	62.	25.7	C	20.0	4.7
17	2	890.	520.	0.	3700.	520.	0.	3700.	4400.	0.	0.	0.	.84	60.	30.8	D	20.9	3.6
18	2	4840.	180.	692.	3880.	180.	692.	3880.	4400.	0.	0.	0.	.88	59.	33.1	D	18.3	3.3
19	2	530.	0.	0.	3188.	0.	0.	3188.	3800.	0.	0.	0.	.84	60.	26.5	D	20.9	3.7
20	2	1040.	364.	0.	3552.	364.	0.	3552.	4388.	12.	0.	0.	.81	61.	29.2	D	20.5	4.1
21	3	2810.	660.	688.	4212.	660.	688.	4212.	5505.	95.	0.	0.	.77	62.	22.6	C	24.1	4.8
22	2	1850.	0.	0.	3524.	0.	0.	3524.	4400.	0.	0.	0.	.80	61.	28.9	D	17.6	4.2
23	3	2390.	372.	168.	3896.	372.	168.	3896.	5520.	80.	0.	0.	.71	62.	20.9	C	24.1	4.8
24	3	960.	0.	1476.	3728.	0.	1500.	3728.	5576.	24.	0.	0.	.67	62.	20.0	C	17.2	4.8
25	2	1400.	0.	2252.	2252.	0.	2252.	2252.	3600.	0.	0.	0.	.63	62.	18.2	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.90		LOWEST LOS = D	AVG = 61.	24.5		17.3	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	170. PASS-HRS	669. VEH-HRS	833. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	12. VEH-HRS	15. PASS-HRS	25. VEH-HRS	30. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	185. PASS-HRS	694. VEH-HRS	863. PASS-HRS
TOTAL TRAV DISTANCE =	8335. VEH-MI.	10368. PASS-MI.	40787. VEH-MI.	50739. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		24. VPMPL	
TOTAL FUEL =	485. GALLONS		2354. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		177. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	46.	12.25	4.64	0.07	0.44	0.08	0.59

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2356.	108.	2356.	2356.	108.	2356.	4100.	0.	0.	0.	.57	62.	19.0	C	13.6	4.8
2	2	1970.	0.	0.	2248.	0.	0.	2248.	4100.	0.	0.	0.	.55	62.	18.1	C	13.6	4.8
3	2	1830.	260.	160.	2508.	260.	160.	2508.	4100.	0.	0.	0.	.61	62.	20.2	C	13.6	4.8
4	2	2010.	0.	0.	2348.	0.	0.	2348.	4400.	0.	0.	0.	.53	62.	18.9	C	13.6	4.8
5	3	2445.	608.	292.	2956.	608.	292.	2956.	5588.	12.	0.	0.	.53	62.	15.9	B	13.6	4.8
6	2	1890.	0.	0.	2664.	0.	0.	2664.	4400.	0.	0.	0.	.61	62.	21.5	C	13.6	4.8
7	3	5320.	420.	500.	3084.	420.	500.	3084.	5600.	0.	0.	0.	.55	62.	16.6	B	13.6	4.8
8	2	880.	0.	0.	2584.	0.	0.	2584.	4400.	0.	0.	0.	.59	62.	20.8	C	14.9	4.8
9	2	1125.	172.	0.	2756.	172.	0.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	19.9	4.8
10	2	6320.	392.	284.	3148.	392.	284.	3148.	4250.	0.	0.	0.	.74	62.	25.5	C	20.0	4.7
11	2	2050.	0.	0.	2864.	0.	0.	2864.	4100.	0.	0.	0.	.70	62.	23.1	C	19.9	4.8
12	2	2560.	808.	0.	3672.	808.	0.	3672.	4400.	0.	0.	0.	.83	60.	30.5	D	17.9	3.7
13	2	1400.	0.	416.	3672.	0.	416.	3672.	4400.	0.	0.	0.	.83	60.	30.5	D	33.9	3.7
14	2	1320.	0.	0.	3256.	0.	0.	3256.	4400.	0.	0.	0.	.74	62.	26.4	D	15.0	4.7
15	3	540.	892.	1260.	4148.	892.	1260.	4148.	4980.	620.	0.	0.	.83	62.	22.3	C	12.6	4.8
16	2	1230.	0.	0.	2888.	0.	0.	2888.	4400.	0.	0.	0.	.66	62.	23.3	C	19.9	4.8
17	2	890.	632.	0.	3520.	632.	0.	3520.	4400.	0.	0.	0.	.80	61.	28.9	D	20.4	4.2
18	2	4840.	204.	592.	3724.	204.	592.	3724.	4400.	0.	0.	0.	.85	60.	31.1	D	18.0	3.6
19	2	530.	0.	0.	3132.	0.	0.	3132.	3800.	0.	0.	0.	.82	60.	25.9	C	20.7	3.9
20	2	1040.	380.	0.	3512.	380.	0.	3512.	4388.	12.	0.	0.	.80	61.	28.8	D	20.4	4.2
21	3	2810.	652.	708.	4164.	652.	708.	4164.	5504.	96.	0.	0.	.76	62.	22.4	C	24.1	4.8
22	2	1850.	0.	0.	3456.	0.	0.	3456.	4400.	0.	0.	0.	.79	61.	28.2	D	17.5	4.4
23	3	2390.	324.	140.	3780.	324.	140.	3780.	5532.	68.	0.	0.	.68	62.	20.3	C	24.1	4.8
24	3	960.	0.	1572.	3640.	0.	1500.	3640.	5581.	19.	0.	0.	.65	62.	19.6	C	17.2	4.8
25	2	1400.	0.	2068.	2068.	0.	2068.	2068.	3600.	0.	0.	0.	.57	62.	16.7	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.85		LOWEST LOS = D	AVG = 61.	23.0		17.3	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	159. PASS-HRS	797. VEH-HRS	992. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	14. VEH-HRS	17. PASS-HRS	38. VEH-HRS	48. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	176. PASS-HRS	836. VEH-HRS	1040. PASS-HRS
TOTAL TRAV DISTANCE =	7868. VEH-MI.	9788. PASS-MI.	48655. VEH-MI.	60527. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		24. VPMPL	
TOTAL FUEL =	461. GALLONS		2814. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		213. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	64.	13.75	5.21	0.08	0.49	0.09	0.66

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2412.	156.	2412.	2412.	156.	2412.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
2	2	1970.	0.	0.	2256.	0.	0.	2256.	4100.	0.	0.	0.	.55	62.	18.2	C	13.6	4.8
3	2	1830.	244.	136.	2500.	244.	136.	2500.	4100.	0.	0.	0.	.61	62.	20.2	C	13.6	4.8
4	2	2010.	0.	0.	2364.	0.	0.	2364.	4400.	0.	0.	0.	.54	62.	19.1	C	13.6	4.8
5	3	2445.	708.	340.	3072.	708.	340.	3072.	5535.	65.	0.	0.	.56	62.	16.5	B	13.6	4.8
6	2	1890.	0.	0.	2732.	0.	0.	2732.	4400.	0.	0.	0.	.62	62.	22.0	C	13.6	4.8
7	3	5320.	476.	448.	3208.	476.	448.	3208.	5600.	0.	0.	0.	.57	62.	17.2	B	13.6	4.8
8	2	880.	0.	0.	2760.	0.	0.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	14.9	4.8
9	2	1125.	156.	0.	2916.	156.	0.	2916.	4400.	0.	0.	0.	.66	62.	23.5	C	19.9	4.8
10	2	6320.	508.	272.	3424.	508.	272.	3424.	4250.	0.	0.	0.	.81	61.	28.1	D	20.5	4.1
11	2	2050.	0.	0.	3152.	0.	0.	3152.	4100.	0.	0.	0.	.77	61.	25.6	C	20.2	4.5
12	2	2560.	756.	0.	3908.	756.	0.	3908.	4400.	0.	0.	0.	.89	58.	33.5	D	18.4	3.2
13	2	1400.	0.	436.	3908.	0.	436.	3908.	4400.	0.	0.	0.	.89	58.	33.5	D	35.3	3.2
14	2	1320.	0.	0.	3472.	0.	0.	3472.	4400.	0.	0.	0.	.79	61.	28.4	D	15.2	4.3
15	3	540.	756.	1164.	4228.	756.	1164.	4228.	5052.	548.	0.	0.	.84	62.	22.7	C	12.6	4.8
16	2	1230.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	19.9	4.8
17	2	890.	612.	0.	3676.	612.	0.	3676.	4400.	0.	0.	0.	.84	60.	30.5	D	20.8	3.7
18	2	4840.	224.	480.	3900.	224.	480.	3900.	4400.	0.	0.	0.	.89	58.	33.4	D	18.4	3.2
19	2	530.	0.	0.	3420.	0.	0.	3420.	3800.	0.	0.	0.	.90	58.	29.6	D	21.5	3.1
20	2	1040.	380.	0.	3800.	380.	0.	3800.	4386.	14.	0.	0.	.87	59.	32.1	D	21.1	3.4
21	3	2810.	672.	760.	4472.	672.	760.	4472.	5444.	156.	0.	0.	.82	62.	24.0	C	24.1	4.8
22	2	1850.	0.	0.	3712.	0.	0.	3712.	4400.	0.	0.	0.	.84	60.	31.0	D	18.0	3.6
23	3	2390.	332.	144.	4044.	332.	144.	4044.	5522.	78.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1540.	3900.	0.	1500.	3900.	5574.	26.	0.	0.	.70	62.	21.0	C	17.2	4.8
25	2	1400.	0.	2360.	2360.	0.	2360.	2360.	3600.	0.	0.	0.	.66	62.	19.0	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.90		LOWEST LOS = D	AVG = 61.	24.6		17.5	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	170. PASS-HRS	934. VEH-HRS	1162. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	17. VEH-HRS	21. PASS-HRS	56. VEH-HRS	69. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	191. PASS-HRS	990. VEH-HRS	1231. PASS-HRS
TOTAL TRAV DISTANCE =	8319. VEH-MI.	10349. PASS-MI.	56974. VEH-MI.	70876. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		24. VPMPL	
TOTAL FUEL =	481. GALLONS		3296. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		250. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	74.	17.25	6.53	0.10	0.62	0.11	0.83

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2396.	108.	2396.	2396.	108.	2396.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
2	2	1970.	0.	0.	2288.	0.	0.	2288.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
3	2	1830.	304.	156.	2592.	304.	156.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
4	2	2010.	0.	0.	2436.	0.	0.	2436.	4400.	0.	0.	0.	.55	62.	19.6	C	13.6	4.8
5	3	2445.	596.	340.	3032.	596.	340.	3032.	5573.	27.	0.	0.	.54	62.	16.3	B	13.6	4.8
6	2	1890.	0.	0.	2692.	0.	0.	2692.	4400.	0.	0.	0.	.61	62.	21.7	C	13.6	4.8
7	3	5320.	480.	528.	3172.	480.	528.	3172.	5600.	0.	0.	0.	.57	62.	17.1	B	13.6	4.8
8	2	880.	0.	0.	2644.	0.	0.	2644.	4400.	0.	0.	0.	.60	62.	21.3	C	14.9	4.8
9	2	1125.	156.	0.	2800.	156.	0.	2800.	4400.	0.	0.	0.	.64	62.	22.6	C	19.9	4.8
10	2	6320.	440.	320.	3240.	440.	320.	3240.	4250.	0.	0.	0.	.76	62.	26.3	D	20.1	4.5
11	2	2050.	0.	0.	2920.	0.	0.	2920.	4100.	0.	0.	0.	.71	62.	23.5	C	19.9	4.8
12	2	2560.	676.	0.	3596.	676.	0.	3596.	4400.	0.	0.	0.	.82	61.	29.7	D	17.7	4.0
13	2	1400.	0.	480.	3596.	0.	480.	3596.	4400.	0.	0.	0.	.82	61.	29.7	D	33.5	4.0
14	2	1320.	0.	0.	3116.	0.	0.	3116.	4400.	0.	0.	0.	.71	62.	25.2	C	14.9	4.8
15	3	540.	780.	1324.	3896.	780.	1324.	3896.	5084.	516.	0.	0.	.77	62.	20.9	C	12.6	4.8
16	2	1230.	0.	0.	2572.	0.	0.	2572.	4400.	0.	0.	0.	.58	62.	20.7	C	19.9	4.8
17	2	890.	464.	0.	3036.	464.	0.	3036.	4400.	0.	0.	0.	.69	62.	24.5	C	19.9	4.8
18	2	4840.	180.	628.	3216.	180.	628.	3216.	4400.	0.	0.	0.	.73	62.	26.0	D	17.2	4.7
19	2	530.	0.	0.	2588.	0.	0.	2588.	3800.	0.	0.	0.	.68	62.	20.9	C	19.9	4.8
20	2	1040.	380.	0.	2968.	380.	0.	2968.	4393.	7.	0.	0.	.68	62.	23.9	C	19.9	4.8
21	3	2810.	772.	640.	3740.	772.	640.	3740.	5517.	83.	0.	0.	.68	62.	20.1	C	24.1	4.8
22	2	1850.	0.	0.	3100.	0.	0.	3100.	4400.	0.	0.	0.	.70	62.	25.0	C	17.2	4.8
23	3	2390.	304.	228.	3404.	304.	228.	3404.	5565.	35.	0.	0.	.61	62.	18.3	C	24.1	4.8
24	3	960.	0.	1552.	3176.	0.	1500.	3176.	5596.	4.	0.	0.	.57	62.	17.1	B	17.2	4.8
25	2	1400.	0.	1624.	1624.	0.	1624.	1624.	3600.	0.	0.	0.	.45	62.	13.1	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.82		LOWEST LOS = D	AVG = 62.	21.9		17.0	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	152. PASS-HRS	1056. VEH-HRS	1314. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	20. VEH-HRS	25. PASS-HRS	76. VEH-HRS	94. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	177. PASS-HRS	1132. VEH-HRS	1408. PASS-HRS
TOTAL TRAV DISTANCE =	7560. VEH-MI.	9404. PASS-MI.	64534. VEH-MI.	80280. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	451. GALLONS		3747. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		286. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	87.	20.12	7.62	0.12	0.72	0.13	0.96

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2636.	136.	2636.	2636.	136.	2636.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
2	2	1970.	0.	0.	2500.	0.	0.	2500.	4100.	0.	0.	0.	.61	62.	20.2	C	13.6	4.8
3	2	1830.	288.	140.	2788.	288.	140.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
4	2	2010.	0.	0.	2648.	0.	0.	2648.	4400.	0.	0.	0.	.60	62.	21.4	C	13.6	4.8
5	3	2445.	444.	496.	3092.	444.	496.	3092.	5563.	37.	0.	0.	.56	62.	16.6	B	13.6	4.8
6	2	1890.	0.	0.	2596.	0.	0.	2596.	4400.	0.	0.	0.	.59	62.	20.9	C	13.6	4.8
7	3	5320.	388.	420.	2984.	388.	420.	2984.	5600.	0.	0.	0.	.53	62.	16.0	B	13.6	4.8
8	2	880.	0.	0.	2564.	0.	0.	2564.	4400.	0.	0.	0.	.58	62.	20.7	C	14.9	4.8
9	2	1125.	144.	0.	2708.	144.	0.	2708.	4400.	0.	0.	0.	.62	62.	21.8	C	19.9	4.8
10	2	6320.	364.	364.	3072.	364.	364.	3072.	4250.	0.	0.	0.	.72	62.	24.8	C	19.9	4.8
11	2	2050.	0.	0.	2708.	0.	0.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	19.9	4.8
12	2	2560.	816.	0.	3524.	816.	0.	3524.	4400.	0.	0.	0.	.80	61.	28.9	D	17.6	4.2
13	2	1400.	0.	432.	3524.	0.	432.	3524.	4400.	0.	0.	0.	.80	61.	28.9	D	33.2	4.2
14	2	1320.	0.	0.	3092.	0.	0.	3092.	4400.	0.	0.	0.	.70	62.	25.0	C	14.9	4.8
15	3	540.	564.	1100.	3656.	564.	1100.	3656.	5208.	392.	0.	0.	.70	62.	19.7	C	12.6	4.8
16	2	1230.	0.	0.	2556.	0.	0.	2556.	4400.	0.	0.	0.	.58	62.	20.6	C	19.9	4.8
17	2	890.	560.	0.	3116.	560.	0.	3116.	4400.	0.	0.	0.	.71	62.	25.2	C	20.0	4.8
18	2	4840.	164.	476.	3280.	164.	476.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	17.3	4.6
19	2	530.	0.	0.	2804.	0.	0.	2804.	3800.	0.	0.	0.	.74	62.	22.6	C	19.9	4.8
20	2	1040.	432.	0.	3236.	432.	0.	3236.	4388.	12.	0.	0.	.74	62.	26.2	D	20.0	4.7
21	3	2810.	596.	736.	3832.	596.	736.	3832.	5530.	70.	0.	0.	.69	62.	20.6	C	24.1	4.8
22	2	1850.	0.	0.	3096.	0.	0.	3096.	4400.	0.	0.	0.	.70	62.	25.0	C	17.2	4.8
23	3	2390.	336.	168.	3432.	336.	168.	3432.	5549.	51.	0.	0.	.62	62.	18.5	C	24.1	4.8
24	3	960.	0.	1460.	3264.	0.	1500.	3264.	5590.	10.	0.	0.	.58	62.	17.5	B	17.2	4.8
25	2	1400.	0.	1804.	1804.	0.	1804.	1804.	3600.	0.	0.	0.	.50	62.	14.5	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 62.	22.0		17.0	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	152. PASS-HRS	1179. VEH-HRS	1466. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	20. VEH-HRS	26. PASS-HRS	96. VEH-HRS	120. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	1275. VEH-HRS	1586. PASS-HRS
TOTAL TRAV DISTANCE =	7573. VEH-MI.	9420. PASS-MI.	72106. VEH-MI.	89700. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	454. GALLONS		4200. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		323. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	77.	20.50	7.76	0.12	0.73	0.13	0.98

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2468.	100.	2468.	2468.	100.	2468.	4100.	0.	0.	0.	.60	62.	19.9	C	13.6	4.8
2	2	1970.	0.	0.	2368.	0.	0.	2368.	4100.	0.	0.	0.	.58	62.	19.1	C	13.6	4.8
3	2	1830.	268.	156.	2636.	268.	156.	2636.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
4	2	2010.	0.	0.	2480.	0.	0.	2480.	4400.	0.	0.	0.	.56	62.	20.0	C	13.6	4.8
5	3	2445.	648.	488.	3128.	648.	488.	3128.	5464.	136.	0.	0.	.57	62.	16.8	B	13.6	4.8
6	2	1890.	0.	0.	2640.	0.	0.	2640.	4400.	0.	0.	0.	.60	62.	21.3	C	13.6	4.8
7	3	5320.	384.	480.	3024.	384.	480.	3024.	5600.	0.	0.	0.	.54	62.	16.3	B	13.6	4.8
8	2	880.	0.	0.	2544.	0.	0.	2544.	4400.	0.	0.	0.	.58	62.	20.5	C	14.9	4.8
9	2	1125.	156.	0.	2700.	156.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	19.9	4.8
10	2	6320.	432.	412.	3132.	432.	412.	3132.	4250.	0.	0.	0.	.74	62.	25.3	C	20.0	4.7
11	2	2050.	0.	0.	2720.	0.	0.	2720.	4100.	0.	0.	0.	.66	62.	21.9	C	19.9	4.8
12	2	2560.	632.	0.	3352.	632.	0.	3352.	4400.	0.	0.	0.	.76	62.	27.2	D	17.3	4.5
13	2	1400.	0.	472.	3352.	0.	472.	3352.	4400.	0.	0.	0.	.76	62.	27.2	D	32.6	4.5
14	2	1320.	0.	0.	2880.	0.	0.	2880.	4400.	0.	0.	0.	.65	62.	23.2	C	14.9	4.8
15	3	540.	604.	1288.	3484.	604.	1288.	3484.	5220.	380.	0.	0.	.67	62.	18.7	C	12.6	4.8
16	2	1230.	0.	0.	2196.	0.	0.	2196.	4400.	0.	0.	0.	.50	62.	17.7	B	19.9	4.8
17	2	890.	512.	0.	2708.	512.	0.	2708.	4400.	0.	0.	0.	.62	62.	21.8	C	19.9	4.8
18	2	4840.	220.	532.	2928.	220.	532.	2928.	4400.	0.	0.	0.	.67	62.	23.6	C	17.2	4.8
19	2	530.	0.	0.	2396.	0.	0.	2396.	3800.	0.	0.	0.	.63	62.	19.3	C	19.9	4.8
20	2	1040.	368.	0.	2764.	368.	0.	2764.	4396.	4.	0.	0.	.63	62.	22.3	C	19.9	4.8
21	3	2810.	648.	708.	3412.	648.	708.	3412.	5547.	53.	0.	0.	.62	62.	18.3	C	24.1	4.8
22	2	1850.	0.	0.	2704.	0.	0.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	17.2	4.8
23	3	2390.	248.	152.	2952.	248.	152.	2952.	5600.	0.	0.	0.	.53	62.	15.9	B	24.1	4.8
24	3	960.	0.	1516.	2800.	0.	1500.	2800.	5600.	0.	0.	0.	.50	62.	15.1	B	17.2	4.8
25	2	1400.	0.	1284.	1284.	0.	1284.	1284.	3600.	0.	0.	0.	.36	62.	10.4	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.76		LOWEST LOS = D	AVG = 62.	20.7		16.9	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	143. PASS-HRS	1294. VEH-HRS	1610. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	20. VEH-HRS	25. PASS-HRS	116. VEH-HRS	144. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	168. PASS-HRS	1410. VEH-HRS	1754. PASS-HRS
TOTAL TRAV DISTANCE =	7138. VEH-MI.	8879. PASS-MI.	79244. VEH-MI.	98580. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		23. VPMPL	
TOTAL FUEL =	430. GALLONS		4631. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		357. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	81.	19.75	7.48	0.11	0.71	0.12	0.94

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2676.	112.	2676.	2676.	112.	2676.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
2	2	1970.	0.	0.	2564.	0.	0.	2564.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
3	2	1830.	268.	140.	2832.	268.	140.	2832.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
4	2	2010.	0.	0.	2692.	0.	0.	2692.	4400.	0.	0.	0.	.61	62.	21.7	C	13.6	4.8
5	3	2445.	612.	460.	3304.	612.	460.	3304.	5487.	113.	0.	0.	.60	62.	17.8	B	13.6	4.8
6	2	1890.	0.	0.	2844.	0.	0.	2844.	4400.	0.	0.	0.	.65	62.	22.9	C	13.6	4.8
7	3	5320.	324.	464.	3168.	324.	464.	3168.	5600.	0.	0.	0.	.57	62.	17.0	B	13.6	4.8
8	2	880.	0.	0.	2704.	0.	0.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	14.9	4.8
9	2	1125.	128.	0.	2832.	128.	0.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	19.9	4.8
10	2	6320.	408.	380.	3240.	408.	380.	3240.	4250.	0.	0.	0.	.76	62.	26.3	D	20.1	4.5
11	2	2050.	0.	0.	2860.	0.	0.	2860.	4100.	0.	0.	0.	.70	62.	23.1	C	19.9	4.8
12	2	2560.	664.	0.	3524.	664.	0.	3524.	4400.	0.	0.	0.	.80	61.	28.9	D	17.6	4.2
13	2	1400.	0.	424.	3524.	0.	424.	3524.	4400.	0.	0.	0.	.80	61.	28.9	D	33.2	4.2
14	2	1320.	0.	0.	3100.	0.	0.	3100.	4400.	0.	0.	0.	.70	62.	25.0	C	14.9	4.8
15	3	540.	520.	1152.	3620.	520.	1152.	3620.	5244.	356.	0.	0.	.69	62.	19.5	C	12.6	4.8
16	2	1230.	0.	0.	2468.	0.	0.	2468.	4400.	0.	0.	0.	.56	62.	19.9	C	19.9	4.8
17	2	890.	544.	0.	3012.	544.	0.	3012.	4400.	0.	0.	0.	.68	62.	24.3	C	19.9	4.8
18	2	4840.	220.	532.	3232.	220.	532.	3232.	4400.	0.	0.	0.	.73	62.	26.1	D	17.2	4.7
19	2	530.	0.	0.	2700.	0.	0.	2700.	3800.	0.	0.	0.	.71	62.	21.8	C	19.9	4.8
20	2	1040.	444.	0.	3144.	444.	0.	3144.	4390.	10.	0.	0.	.72	62.	25.4	C	20.0	4.7
21	3	2810.	620.	824.	3764.	620.	824.	3764.	5478.	122.	0.	0.	.69	62.	20.2	C	24.1	4.8
22	2	1850.	0.	0.	2940.	0.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	17.2	4.8
23	3	2390.	304.	172.	3244.	304.	172.	3244.	5579.	21.	0.	0.	.58	62.	17.4	B	24.1	4.8
24	3	960.	0.	1576.	3072.	0.	1500.	3072.	5600.	0.	0.	0.	.55	62.	16.5	B	17.2	4.8
25	2	1400.	0.	1496.	1496.	0.	1496.	1496.	3600.	0.	0.	0.	.42	62.	12.1	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 62.	22.2		16.9	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	124. VEH-HRS	154. PASS-HRS	1418. VEH-HRS	1764. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	23. VEH-HRS	28. PASS-HRS	138. VEH-HRS	172. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	147. VEH-HRS	182. PASS-HRS	1556. VEH-HRS	1936. PASS-HRS
TOTAL TRAV DISTANCE =	7662. VEH-MI.	9532. PASS-MI.	86906. VEH-MI.	108112. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		23. VPMPL	
TOTAL FUEL =	461. GALLONS		5092. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		394. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	100.	22.62	8.57	0.13	0.81	0.14	1.08

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2484.	104.	2484.	2484.	104.	2484.	4100.	0.	0.	0.	.61	62.	20.0	C	13.6	4.8
2	2	1970.	0.	0.	2380.	0.	0.	2380.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
3	2	1830.	272.	192.	2652.	272.	192.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
4	2	2010.	0.	0.	2460.	0.	0.	2460.	4400.	0.	0.	0.	.56	62.	19.8	C	13.6	4.8
5	3	2445.	560.	492.	3020.	560.	492.	3020.	5500.	100.	0.	0.	.55	62.	16.2	B	13.6	4.8
6	2	1890.	0.	0.	2528.	0.	0.	2528.	4400.	0.	0.	0.	.57	62.	20.4	C	13.6	4.8
7	3	5320.	400.	520.	2928.	400.	520.	2928.	5600.	0.	0.	0.	.52	62.	15.7	B	13.6	4.8
8	2	880.	0.	0.	2408.	0.	0.	2408.	4400.	0.	0.	0.	.55	62.	19.4	C	14.9	4.8
9	2	1125.	140.	0.	2548.	140.	0.	2548.	4400.	0.	0.	0.	.58	62.	20.5	C	19.9	4.8
10	2	6320.	468.	336.	3016.	468.	336.	3016.	4250.	0.	0.	0.	.71	62.	24.3	C	19.9	4.8
11	2	2050.	0.	0.	2680.	0.	0.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	19.9	4.8
12	2	2560.	748.	0.	3428.	748.	0.	3428.	4400.	0.	0.	0.	.78	61.	27.9	D	17.4	4.4
13	2	1400.	0.	520.	3428.	0.	520.	3428.	4400.	0.	0.	0.	.78	61.	27.9	D	32.8	4.4
14	2	1320.	0.	0.	2908.	0.	0.	2908.	4400.	0.	0.	0.	.66	62.	23.5	C	14.9	4.8
15	3	540.	544.	1176.	3452.	544.	1176.	3452.	5240.	360.	0.	0.	.66	62.	18.6	C	12.6	4.8
16	2	1230.	0.	0.	2276.	0.	0.	2276.	4400.	0.	0.	0.	.52	62.	18.4	C	19.9	4.8
17	2	890.	540.	0.	2816.	540.	0.	2816.	4400.	0.	0.	0.	.64	62.	22.7	C	19.9	4.8
18	2	4840.	120.	444.	2936.	120.	444.	2936.	4400.	0.	0.	0.	.67	62.	23.7	C	17.2	4.8
19	2	530.	0.	0.	2492.	0.	0.	2492.	3800.	0.	0.	0.	.66	62.	20.1	C	19.9	4.8
20	2	1040.	416.	0.	2908.	416.	0.	2908.	4394.	6.	0.	0.	.66	62.	23.5	C	19.9	4.8
21	3	2810.	728.	816.	3636.	728.	816.	3636.	5450.	150.	0.	0.	.67	62.	19.5	C	24.1	4.8
22	2	1850.	0.	0.	2820.	0.	0.	2820.	4400.	0.	0.	0.	.64	62.	22.7	C	17.2	4.8
23	3	2390.	340.	164.	3160.	340.	164.	3160.	5600.	0.	0.	0.	.56	62.	17.0	B	24.1	4.8
24	3	960.	0.	1748.	2996.	0.	1500.	2996.	5600.	0.	0.	0.	.53	62.	16.1	B	17.2	4.8
25	2	1400.	0.	1248.	1248.	0.	1248.	1248.	3600.	0.	0.	0.	.35	62.	10.1	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.78 LOWEST LOS = D AVG = 62. 20.7 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	144. PASS-HRS	1533. VEH-HRS	1908. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	33. VEH-HRS	41. PASS-HRS	171. VEH-HRS	213. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	148. VEH-HRS	184. PASS-HRS	1705. VEH-HRS	2121. PASS-HRS
TOTAL TRAV DISTANCE =	7148. VEH-MI.	8892. PASS-MI.	94054. VEH-MI.	117003. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		23. VPMPL	
TOTAL FUEL =	434. GALLONS		5527. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		430. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	162.	32.75	12.40	0.19	1.17	0.20	1.57

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2644.	164.	2644.	2644.	164.	2644.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
2	2	1970.	0.	0.	2480.	0.	0.	2480.	4100.	0.	0.	0.	.60	62.	20.0	C	13.6	4.8
3	2	1830.	320.	156.	2800.	320.	156.	2800.	4100.	0.	0.	0.	.68	62.	22.6	C	13.6	4.8
4	2	2010.	0.	0.	2644.	0.	0.	2644.	4400.	0.	0.	0.	.60	62.	21.3	C	13.6	4.8
5	3	2445.	452.	532.	3096.	452.	532.	3096.	5544.	56.	0.	0.	.56	62.	16.6	B	13.6	4.8
6	2	1890.	0.	0.	2564.	0.	0.	2564.	4400.	0.	0.	0.	.58	62.	20.7	C	13.6	4.8
7	3	5320.	536.	492.	3100.	536.	492.	3100.	5600.	0.	0.	0.	.55	62.	16.7	B	13.6	4.8
8	2	880.	0.	0.	2608.	0.	0.	2608.	4400.	0.	0.	0.	.59	62.	21.0	C	14.9	4.8
9	2	1125.	224.	0.	2832.	224.	0.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	19.9	4.8
10	2	6320.	516.	468.	3348.	516.	468.	3348.	4250.	0.	0.	0.	.79	61.	27.3	D	20.3	4.3
11	2	2050.	0.	0.	2880.	0.	0.	2880.	4100.	0.	0.	0.	.70	62.	23.2	C	19.9	4.8
12	2	2560.	732.	0.	3612.	732.	0.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	17.8	3.9
13	2	1400.	0.	452.	3612.	0.	452.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	33.6	3.9
14	2	1320.	0.	0.	3160.	0.	0.	3160.	4400.	0.	0.	0.	.72	62.	25.5	C	14.9	4.7
15	3	540.	752.	1224.	3912.	752.	1224.	3912.	5084.	516.	0.	0.	.77	62.	21.0	C	12.6	4.8
16	2	1230.	0.	0.	2688.	0.	0.	2688.	4400.	0.	0.	0.	.61	62.	21.7	C	19.9	4.8
17	2	890.	648.	0.	3336.	648.	0.	3336.	4400.	0.	0.	0.	.76	62.	27.1	D	20.1	4.6
18	2	4840.	168.	464.	3504.	168.	464.	3504.	4400.	0.	0.	0.	.80	61.	28.7	D	17.5	4.2
19	2	530.	0.	0.	3040.	0.	0.	3040.	3800.	0.	0.	0.	.80	62.	24.5	C	19.9	4.8
20	2	1040.	496.	0.	3536.	496.	0.	3536.	4382.	18.	0.	0.	.81	61.	29.0	D	20.5	4.1
21	3	2810.	788.	856.	4324.	788.	856.	4324.	5285.	315.	0.	0.	.82	62.	23.2	C	24.1	4.8
22	2	1850.	0.	0.	3468.	0.	0.	3468.	4400.	0.	0.	0.	.79	61.	28.3	D	17.5	4.3
23	3	2390.	396.	132.	3864.	396.	132.	3864.	5512.	88.	0.	0.	.70	62.	20.8	C	24.1	4.8
24	3	960.	0.	1716.	3732.	0.	1500.	3732.	5577.	23.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	2016.	2016.	0.	2016.	2016.	3600.	0.	0.	0.	.56	62.	16.3	B	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.82	LOWEST LOS = D		AVG = 62.	23.3	17.2	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	162. PASS-HRS	1663. VEH-HRS	2069. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	47. VEH-HRS	59. PASS-HRS	218. VEH-HRS	272. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	177. VEH-HRS	220. PASS-HRS	1882. VEH-HRS	2341. PASS-HRS
TOTAL TRAV DISTANCE =	8006. VEH-MI.	9959. PASS-MI.	102060. VEH-MI.	126963. PASS-MI.
AVERAGE SYSTEM SPEED =	45. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		23. VPMPL	
TOTAL FUEL =	484. GALLONS		6010. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		469. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	216.	47.25	17.90	0.27	1.69	0.30	2.26

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2816.	148.	2816.	2816.	148.	2816.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
2	2	1970.	0.	0.	2668.	0.	0.	2668.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
3	2	1830.	356.	240.	3024.	356.	240.	3024.	4100.	0.	0.	0.	.74	62.	24.4	C	13.6	4.8
4	2	2010.	0.	0.	2784.	0.	0.	2784.	4400.	0.	0.	0.	.63	62.	22.5	C	13.6	4.8
5	3	2445.	540.	616.	3324.	540.	616.	3324.	5424.	176.	0.	0.	.61	62.	17.9	B	13.6	4.8
6	2	1890.	0.	0.	2708.	0.	0.	2708.	4400.	0.	0.	0.	.62	62.	21.8	C	13.6	4.8
7	3	5320.	496.	728.	3204.	496.	728.	3204.	5600.	0.	0.	0.	.57	62.	17.2	B	13.6	4.8
8	2	880.	0.	0.	2476.	0.	0.	2476.	4400.	0.	0.	0.	.56	62.	20.0	C	14.9	4.8
9	2	1125.	124.	0.	2600.	124.	0.	2600.	4400.	0.	0.	0.	.59	62.	21.0	C	19.9	4.8
10	2	6320.	420.	484.	3020.	420.	484.	3020.	4250.	0.	0.	0.	.71	62.	24.4	C	19.9	4.8
11	2	2050.	0.	0.	2536.	0.	0.	2536.	4100.	0.	0.	0.	.62	62.	20.5	C	19.9	4.8
12	2	2560.	676.	0.	3212.	676.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	17.2	4.7
13	2	1400.	0.	628.	3212.	0.	628.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	32.4	4.7
14	2	1320.	0.	0.	2584.	0.	0.	2584.	4400.	0.	0.	0.	.59	62.	20.8	C	14.9	4.8
15	3	540.	776.	1252.	3360.	776.	1252.	3360.	5112.	488.	0.	0.	.66	62.	18.1	C	12.6	4.8
16	2	1230.	0.	0.	2108.	0.	0.	2108.	4400.	0.	0.	0.	.48	62.	17.0	B	19.9	4.8
17	2	890.	576.	0.	2684.	576.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	19.9	4.8
18	2	4840.	156.	440.	2840.	156.	440.	2840.	4400.	0.	0.	0.	.65	62.	22.9	C	17.2	4.8
19	2	530.	0.	0.	2400.	0.	0.	2400.	3800.	0.	0.	0.	.63	62.	19.4	C	19.9	4.8
20	2	1040.	424.	0.	2824.	424.	0.	2824.	4396.	4.	0.	0.	.64	62.	22.8	C	19.9	4.8
21	3	2810.	696.	892.	3520.	696.	892.	3520.	5435.	165.	0.	0.	.65	62.	18.9	C	24.1	4.8
22	2	1850.	0.	0.	2628.	0.	0.	2628.	4400.	0.	0.	0.	.60	62.	21.2	C	17.2	4.8
23	3	2390.	356.	180.	2984.	356.	180.	2984.	5600.	0.	0.	0.	.53	62.	16.0	B	24.1	4.8
24	3	960.	0.	1708.	2804.	0.	1500.	2804.	5600.	0.	0.	0.	.50	62.	15.1	B	17.2	4.8
25	2	1400.	0.	1096.	1096.	0.	1096.	1096.	3600.	0.	0.	0.	.30	62.	8.8	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.74 LOWEST LOS = C AVG = 62. 20.9 16.7 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	117. VEH-HRS	145. PASS-HRS	1780. VEH-HRS	2214. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	60. VEH-HRS	75. PASS-HRS	279. VEH-HRS	347. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	177. VEH-HRS	220. PASS-HRS	2059. VEH-HRS	2561. PASS-HRS
TOTAL TRAV DISTANCE =	7227. VEH-MI.	8990. PASS-MI.	109287. VEH-MI.	135953. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		23. VPMPL	
TOTAL FUEL =	455. GALLONS		6465. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		506. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	268.	60.50	22.91	0.35	2.16	0.38	2.89

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2400.	140.	2400.	2400.	140.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
2	2	1970.	0.	0.	2260.	0.	0.	2260.	4100.	0.	0.	0.	.55	62.	18.2	C	13.6	4.8
3	2	1830.	312.	232.	2572.	312.	232.	2572.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
4	2	2010.	0.	0.	2340.	0.	0.	2340.	4400.	0.	0.	0.	.53	62.	18.9	C	13.6	4.8
5	3	2445.	732.	432.	3072.	732.	432.	3072.	5469.	131.	0.	0.	.56	62.	16.5	B	13.6	4.8
6	2	1890.	0.	0.	2640.	0.	0.	2640.	4400.	0.	0.	0.	.60	62.	21.3	C	13.6	4.8
7	3	5320.	476.	700.	3116.	476.	700.	3116.	5600.	0.	0.	0.	.56	62.	16.8	B	13.6	4.8
8	2	880.	0.	0.	2416.	0.	0.	2416.	4400.	0.	0.	0.	.55	62.	19.5	C	14.9	4.8
9	2	1125.	144.	0.	2560.	144.	0.	2560.	4400.	0.	0.	0.	.58	62.	20.6	C	19.9	4.8
10	2	6320.	404.	388.	2964.	404.	388.	2964.	4250.	0.	0.	0.	.70	62.	23.9	C	19.9	4.8
11	2	2050.	0.	0.	2576.	0.	0.	2576.	4100.	0.	0.	0.	.63	62.	20.8	C	19.9	4.8
12	2	2560.	652.	0.	3228.	652.	0.	3228.	4400.	0.	0.	0.	.73	62.	26.1	D	17.2	4.7
13	2	1400.	0.	400.	3228.	0.	400.	3228.	4400.	0.	0.	0.	.73	62.	26.1	D	32.4	4.7
14	2	1320.	0.	0.	2828.	0.	0.	2828.	4400.	0.	0.	0.	.64	62.	22.8	C	14.9	4.8
15	3	540.	712.	1280.	3540.	712.	1280.	3540.	5144.	456.	0.	0.	.69	62.	19.0	C	12.6	4.8
16	2	1230.	0.	0.	2260.	0.	0.	2260.	4400.	0.	0.	0.	.51	62.	18.2	C	19.9	4.8
17	2	890.	436.	0.	2696.	436.	0.	2696.	4400.	0.	0.	0.	.61	62.	21.7	C	19.9	4.8
18	2	4840.	164.	396.	2860.	164.	396.	2860.	4400.	0.	0.	0.	.65	62.	23.1	C	17.2	4.8
19	2	530.	0.	0.	2464.	0.	0.	2464.	3800.	0.	0.	0.	.65	62.	19.9	C	19.9	4.8
20	2	1040.	504.	0.	2968.	504.	0.	2968.	4393.	7.	0.	0.	.68	62.	23.9	C	19.9	4.8
21	3	2810.	544.	752.	3512.	544.	752.	3512.	5553.	47.	0.	0.	.63	62.	18.9	C	24.1	4.8
22	2	1850.	0.	0.	2760.	0.	0.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	17.2	4.8
23	3	2390.	356.	168.	3116.	356.	168.	3116.	5593.	7.	0.	0.	.56	62.	16.8	B	24.1	4.8
24	3	960.	0.	1624.	2948.	0.	1500.	2948.	5600.	0.	0.	0.	.53	62.	15.8	B	17.2	4.8
25	2	1400.	0.	1324.	1324.	0.	1324.	1324.	3600.	0.	0.	0.	.37	62.	10.7	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.73		LOWEST LOS = D	AVG = 62.	20.3		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	114. VEH-HRS	142. PASS-HRS	1894. VEH-HRS	2356. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	71. VEH-HRS	88. PASS-HRS	350. VEH-HRS	435. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	185. VEH-HRS	230. PASS-HRS	2244. VEH-HRS	2791. PASS-HRS
TOTAL TRAV DISTANCE =	7058. VEH-MI.	8780. PASS-MI.	116345. VEH-MI.	144733. PASS-MI.
AVERAGE SYSTEM SPEED =	38. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		23. VPMPL	
TOTAL FUEL =	445. GALLONS		6911. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		543. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	299.	70.87	26.84	0.41	2.54	0.44	3.39

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2140.	136.	2140.	2140.	136.	2140.	4100.	0.	0.	0.	.52	62.	17.3	B	13.6	4.8
2	2	1970.	0.	0.	2004.	0.	0.	2004.	4100.	0.	0.	0.	.49	62.	16.2	B	13.6	4.8
3	2	1830.	268.	160.	2272.	268.	160.	2272.	4100.	0.	0.	0.	.55	62.	18.3	C	13.6	4.8
4	2	2010.	0.	0.	2112.	0.	0.	2112.	4400.	0.	0.	0.	.48	62.	17.0	B	13.6	4.8
5	3	2445.	676.	456.	2788.	676.	456.	2788.	5497.	103.	0.	0.	.51	62.	15.0	B	13.6	4.8
6	2	1890.	0.	0.	2332.	0.	0.	2332.	4400.	0.	0.	0.	.53	62.	18.8	C	13.6	4.8
7	3	5320.	376.	660.	2708.	376.	660.	2708.	5600.	0.	0.	0.	.48	62.	14.6	B	13.6	4.8
8	2	880.	0.	0.	2048.	0.	0.	2048.	4400.	0.	0.	0.	.47	62.	16.5	B	14.9	4.8
9	2	1125.	108.	0.	2156.	108.	0.	2156.	4400.	0.	0.	0.	.49	62.	17.4	B	19.9	4.8
10	2	6320.	404.	460.	2560.	404.	460.	2560.	4250.	0.	0.	0.	.60	62.	20.6	C	19.9	4.8
11	2	2050.	0.	0.	2100.	0.	0.	2100.	4100.	0.	0.	0.	.51	62.	16.9	B	19.9	4.8
12	2	2560.	680.	0.	2780.	680.	0.	2780.	4400.	0.	0.	0.	.63	62.	22.4	C	17.2	4.8
13	2	1400.	0.	396.	2780.	0.	396.	2780.	4400.	0.	0.	0.	.63	62.	22.4	C	32.3	4.8
14	2	1320.	0.	0.	2384.	0.	0.	2384.	4400.	0.	0.	0.	.54	62.	19.2	C	14.9	4.8
15	3	540.	712.	1236.	3096.	712.	1236.	3096.	5172.	428.	0.	0.	.60	62.	16.6	B	12.6	4.8
16	2	1230.	0.	0.	1860.	0.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
17	2	890.	600.	0.	2460.	600.	0.	2460.	4400.	0.	0.	0.	.56	62.	19.8	C	19.9	4.8
18	2	4840.	120.	520.	2580.	120.	520.	2580.	4400.	0.	0.	0.	.59	62.	20.8	C	17.2	4.8
19	2	530.	0.	0.	2060.	0.	0.	2060.	3800.	0.	0.	0.	.54	62.	16.6	B	19.9	4.8
20	2	1040.	412.	0.	2472.	412.	0.	2472.	4400.	0.	0.	0.	.56	62.	19.9	C	19.9	4.8
21	3	2810.	572.	768.	3044.	572.	768.	3044.	5585.	15.	0.	0.	.55	62.	16.4	B	24.1	4.8
22	2	1850.	0.	0.	2276.	0.	0.	2276.	4400.	0.	0.	0.	.52	62.	18.4	C	17.2	4.8
23	3	2390.	324.	136.	2600.	324.	136.	2600.	5600.	0.	0.	0.	.46	62.	14.0	B	24.1	4.8
24	3	960.	0.	1344.	2464.	0.	1500.	2464.	5600.	0.	0.	0.	.44	62.	13.2	B	17.2	4.8
25	2	1400.	0.	1120.	1120.	0.	1120.	1120.	3600.	0.	0.	0.	.31	62.	9.0	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.63		LOWEST LOS = C	AVG = 62.	17.6		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	99. VEH-HRS	123. PASS-HRS	1993. VEH-HRS	2479. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	70. VEH-HRS	87. PASS-HRS	420. VEH-HRS	522. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	169. VEH-HRS	210. PASS-HRS	2412. VEH-HRS	3001. PASS-HRS
TOTAL TRAV DISTANCE =	6124. VEH-MI.	7618. PASS-MI.	122469. VEH-MI.	152351. PASS-MI.
AVERAGE SYSTEM SPEED =	36. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		22. VPMPL	
TOTAL FUEL =	391. GALLONS		7301. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		576. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	260.	69.87	26.47	0.41	2.50	0.44	3.34

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1728.	140.	1728.	1728.	140.	1728.	4100.	0.	0.	0.	.42	62.	13.9	B	13.6	4.8
2	2	1970.	0.	0.	1588.	0.	0.	1588.	4100.	0.	0.	0.	.39	62.	12.8	B	13.6	4.8
3	2	1830.	248.	184.	1836.	248.	184.	1836.	4100.	0.	0.	0.	.45	62.	14.8	B	13.6	4.8
4	2	2010.	0.	0.	1652.	0.	0.	1652.	4400.	0.	0.	0.	.38	62.	13.3	B	13.6	4.8
5	3	2445.	528.	384.	2180.	528.	384.	2180.	5600.	0.	0.	0.	.39	62.	11.7	B	13.6	4.8
6	2	1890.	0.	0.	1796.	0.	0.	1796.	4400.	0.	0.	0.	.41	62.	14.5	B	13.6	4.8
7	3	5320.	372.	428.	2168.	372.	428.	2168.	5600.	0.	0.	0.	.39	62.	11.7	B	13.6	4.8
8	2	880.	0.	0.	1740.	0.	0.	1740.	4400.	0.	0.	0.	.40	62.	14.0	B	14.9	4.8
9	2	1125.	104.	0.	1844.	104.	0.	1844.	4400.	0.	0.	0.	.42	62.	14.9	B	19.9	4.8
10	2	6320.	348.	256.	2192.	348.	256.	2192.	4250.	0.	0.	0.	.52	62.	17.7	B	19.9	4.8
11	2	2050.	0.	0.	1936.	0.	0.	1936.	4100.	0.	0.	0.	.47	62.	15.6	B	19.9	4.8
12	2	2560.	568.	0.	2504.	568.	0.	2504.	4400.	0.	0.	0.	.57	62.	20.2	C	17.2	4.8
13	2	1400.	0.	364.	2504.	0.	364.	2504.	4400.	0.	0.	0.	.57	62.	20.2	C	32.3	4.8
14	2	1320.	0.	0.	2140.	0.	0.	2140.	4400.	0.	0.	0.	.49	62.	17.3	B	14.9	4.8
15	3	540.	648.	1000.	2788.	648.	1000.	2788.	5184.	416.	0.	0.	.54	62.	15.0	B	12.6	4.8
16	2	1230.	0.	0.	1788.	0.	0.	1788.	4400.	0.	0.	0.	.41	62.	14.4	B	19.9	4.8
17	2	890.	576.	0.	2364.	576.	0.	2364.	4400.	0.	0.	0.	.54	62.	19.1	C	19.9	4.8
18	2	4840.	116.	412.	2480.	116.	412.	2480.	4400.	0.	0.	0.	.56	62.	20.0	C	17.2	4.8
19	2	530.	0.	0.	2068.	0.	0.	2068.	3800.	0.	0.	0.	.54	62.	16.7	B	19.9	4.8
20	2	1040.	392.	0.	2460.	392.	0.	2460.	4400.	0.	0.	0.	.56	62.	19.8	C	19.9	4.8
21	3	2810.	436.	708.	2896.	436.	708.	2896.	5586.	14.	0.	0.	.52	62.	15.6	B	24.1	4.8
22	2	1850.	0.	0.	2188.	0.	0.	2188.	4400.	0.	0.	0.	.50	62.	17.6	B	17.2	4.8
23	3	2390.	272.	108.	2460.	272.	108.	2460.	5600.	0.	0.	0.	.44	62.	13.2	B	24.1	4.8
24	3	960.	0.	1404.	2352.	0.	1500.	2352.	5600.	0.	0.	0.	.42	62.	12.6	B	17.2	4.8
25	2	1400.	0.	948.	948.	0.	948.	948.	3600.	0.	0.	0.	.26	62.	7.6	A	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.57	LOWEST LOS = C		AVG = 62.	15.5	17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	86. VEH-HRS	108. PASS-HRS	2079. VEH-HRS	2586. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	62. VEH-HRS	77. PASS-HRS	482. VEH-HRS	599. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	148. VEH-HRS	185. PASS-HRS	2561. VEH-HRS	3186. PASS-HRS
TOTAL TRAV DISTANCE =	5361. VEH-MI.	6669. PASS-MI.	127830. VEH-MI.	159020. PASS-MI.
AVERAGE SYSTEM SPEED =	36. MPH.		61. MPH.	
AVERAGE DENSITY =	15. VPMPL		22. VPMPL	
TOTAL FUEL =	339. GALLONS		7640. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		604. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	236.	62.00	23.48	0.36	2.22	0.39	2.97

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1820.	96.	1820.	1820.	96.	1820.	4100.	0.	0.	0.	.44	62.	14.7	B	13.6	4.8
2	2	1970.	0.	0.	1724.	0.	0.	1724.	4100.	0.	0.	0.	.42	62.	13.9	B	13.6	4.8
3	2	1830.	244.	124.	1968.	244.	124.	1968.	4100.	0.	0.	0.	.48	62.	15.9	B	13.6	4.8
4	2	2010.	0.	0.	1844.	0.	0.	1844.	4400.	0.	0.	0.	.42	62.	14.9	B	13.6	4.8
5	3	2445.	440.	396.	2284.	440.	396.	2284.	5600.	0.	0.	0.	.41	62.	12.3	B	13.6	4.8
6	2	1890.	0.	0.	1888.	0.	0.	1888.	4400.	0.	0.	0.	.43	62.	15.2	B	13.6	4.8
7	3	5320.	296.	552.	2184.	296.	552.	2184.	5600.	0.	0.	0.	.39	62.	11.7	B	13.6	4.8
8	2	880.	0.	0.	1632.	0.	0.	1632.	4400.	0.	0.	0.	.37	62.	13.2	B	14.9	4.8
9	2	1125.	128.	0.	1760.	128.	0.	1760.	4400.	0.	0.	0.	.40	62.	14.2	B	19.9	4.8
10	2	6320.	368.	348.	2128.	368.	348.	2128.	4250.	0.	0.	0.	.50	62.	17.2	B	19.9	4.8
11	2	2050.	0.	0.	1780.	0.	0.	1780.	4100.	0.	0.	0.	.43	62.	14.4	B	19.9	4.8
12	2	2560.	500.	0.	2280.	500.	0.	2280.	4400.	0.	0.	0.	.52	62.	18.4	C	17.2	4.8
13	2	1400.	0.	276.	2280.	0.	276.	2280.	4400.	0.	0.	0.	.52	62.	18.4	C	32.3	4.8
14	2	1320.	0.	0.	2004.	0.	0.	2004.	4400.	0.	0.	0.	.46	62.	16.2	B	14.9	4.8
15	3	540.	648.	984.	2652.	648.	984.	2652.	5192.	408.	0.	0.	.51	62.	14.3	B	12.6	4.8
16	2	1230.	0.	0.	1668.	0.	0.	1668.	4400.	0.	0.	0.	.38	62.	13.5	B	19.9	4.8
17	2	890.	540.	0.	2208.	540.	0.	2208.	4400.	0.	0.	0.	.50	62.	17.8	B	19.9	4.8
18	2	4840.	176.	392.	2384.	176.	392.	2384.	4400.	0.	0.	0.	.54	62.	19.2	C	17.2	4.8
19	2	530.	0.	0.	1992.	0.	0.	1992.	3800.	0.	0.	0.	.52	62.	16.1	B	19.9	4.8
20	2	1040.	404.	0.	2396.	404.	0.	2396.	4400.	0.	0.	0.	.54	62.	19.3	C	19.9	4.8
21	3	2810.	452.	704.	2848.	452.	704.	2848.	5589.	11.	0.	0.	.51	62.	15.3	B	24.1	4.8
22	2	1850.	0.	0.	2144.	0.	0.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	17.2	4.8
23	3	2390.	232.	104.	2376.	232.	104.	2376.	5600.	0.	0.	0.	.42	62.	12.8	B	24.1	4.8
24	3	960.	0.	1236.	2272.	0.	1500.	2272.	5600.	0.	0.	0.	.41	62.	12.2	B	17.2	4.8
25	2	1400.	0.	1036.	1036.	0.	1036.	1036.	3600.	0.	0.	0.	.29	62.	8.4	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.54 LOWEST LOS = C AVG = 62. 15.2 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	85. VEH-HRS	106. PASS-HRS	2164. VEH-HRS	2692. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	51. VEH-HRS	63. PASS-HRS	532. VEH-HRS	662. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	136. VEH-HRS	169. PASS-HRS	2697. VEH-HRS	3355. PASS-HRS
TOTAL TRAV DISTANCE =	5287. VEH-MI.	6577. PASS-MI.	133117. VEH-MI.	165598. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		62. MPH.	
AVERAGE DENSITY =	15. VPMPL		22. VPMPL	
TOTAL FUEL =	332. GALLONS		7972. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		632. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	170.	50.75	19.22	0.30	1.82	0.32	2.43

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1632.	104.	1632.	1632.	104.	1632.	4100.	0.	0.	0.	.40	62.	13.2	B	13.6	4.8
2	2	1970.	0.	0.	1528.	0.	0.	1528.	4100.	0.	0.	0.	.37	62.	12.3	B	13.6	4.8
3	2	1830.	280.	124.	1808.	280.	124.	1808.	4100.	0.	0.	0.	.44	62.	14.6	B	13.6	4.8
4	2	2010.	0.	0.	1684.	0.	0.	1684.	4400.	0.	0.	0.	.38	62.	13.6	B	13.6	4.8
5	3	2445.	492.	384.	2176.	492.	384.	2176.	5600.	0.	0.	0.	.39	62.	11.7	B	13.6	4.8
6	2	1890.	0.	0.	1792.	0.	0.	1792.	4400.	0.	0.	0.	.41	62.	14.5	B	13.6	4.8
7	3	5320.	336.	436.	2128.	336.	436.	2128.	5600.	0.	0.	0.	.38	62.	11.4	B	13.6	4.8
8	2	880.	0.	0.	1692.	0.	0.	1692.	4400.	0.	0.	0.	.38	62.	13.6	B	14.9	4.8
9	2	1125.	184.	0.	1876.	184.	0.	1876.	4400.	0.	0.	0.	.43	62.	15.1	B	19.9	4.8
10	2	6320.	276.	276.	2152.	276.	276.	2152.	4250.	0.	0.	0.	.51	62.	17.4	B	19.9	4.8
11	2	2050.	0.	0.	1876.	0.	0.	1876.	4100.	0.	0.	0.	.46	62.	15.1	B	19.9	4.8
12	2	2560.	448.	0.	2324.	448.	0.	2324.	4400.	0.	0.	0.	.53	62.	18.7	C	17.2	4.8
13	2	1400.	0.	320.	2324.	0.	320.	2324.	4400.	0.	0.	0.	.53	62.	18.7	C	32.3	4.8
14	2	1320.	0.	0.	2004.	0.	0.	2004.	4400.	0.	0.	0.	.46	62.	16.2	B	14.9	4.8
15	3	540.	556.	976.	2560.	556.	976.	2560.	5256.	344.	0.	0.	.49	62.	13.8	B	12.6	4.8
16	2	1230.	0.	0.	1584.	0.	0.	1584.	4400.	0.	0.	0.	.36	62.	12.8	B	19.9	4.8
17	2	890.	528.	0.	2112.	528.	0.	2112.	4400.	0.	0.	0.	.48	62.	17.0	B	19.9	4.8
18	2	4840.	184.	360.	2296.	184.	360.	2296.	4400.	0.	0.	0.	.52	62.	18.5	C	17.2	4.8
19	2	530.	0.	0.	1936.	0.	0.	1936.	3800.	0.	0.	0.	.51	62.	15.6	B	19.9	4.8
20	2	1040.	296.	0.	2232.	296.	0.	2232.	4400.	0.	0.	0.	.51	62.	18.0	B	19.9	4.8
21	3	2810.	368.	556.	2600.	368.	556.	2600.	5593.	7.	0.	0.	.46	62.	14.0	B	24.1	4.8
22	2	1850.	0.	0.	2044.	0.	0.	2044.	4400.	0.	0.	0.	.46	62.	16.5	B	17.2	4.8
23	3	2390.	244.	124.	2288.	244.	124.	2288.	5600.	0.	0.	0.	.41	62.	12.3	B	24.1	4.8
24	3	960.	0.	1016.	2164.	0.	1500.	2164.	5600.	0.	0.	0.	.39	62.	11.6	B	17.2	4.8
25	2	1400.	0.	1148.	1148.	0.	1148.	1148.	3600.	0.	0.	0.	.32	62.	9.3	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.53		LOWEST LOS = C	AVG = 62.	14.8		17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	83. VEH-HRS	103. PASS-HRS	2247. VEH-HRS	2795. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	27. VEH-HRS	34. PASS-HRS	560. VEH-HRS	696. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	110. VEH-HRS	137. PASS-HRS	2807. VEH-HRS	3492. PASS-HRS
TOTAL TRAV DISTANCE =	5118. VEH-MI.	6366. PASS-MI.	138235. VEH-MI.	171964. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		62. MPH.	
AVERAGE DENSITY =	15. VPMPL		21. VPMPL	
TOTAL FUEL =	312. GALLONS		8284. GALLONS	
TOTAL EMISSIONS =	26. KILOGRAMS		658. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	49.	27.37	10.37	0.16	0.98	0.17	1.31

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1536.	72.	1536.	1536.	72.	1536.	4100.	0.	0.	0.	.37	62.	12.4	B	13.6	4.8
2	2	1970.	0.	0.	1464.	0.	0.	1464.	4100.	0.	0.	0.	.36	62.	11.8	B	13.6	4.8
3	2	1830.	228.	156.	1692.	228.	156.	1692.	4100.	0.	0.	0.	.41	62.	13.6	B	13.6	4.8
4	2	2010.	0.	0.	1536.	0.	0.	1536.	4400.	0.	0.	0.	.35	62.	12.4	B	13.6	4.8
5	3	2445.	312.	316.	1848.	312.	316.	1848.	5600.	0.	0.	0.	.33	62.	9.9	A	13.6	4.8
6	2	1890.	0.	0.	1532.	0.	0.	1532.	4400.	0.	0.	0.	.35	62.	12.4	B	13.6	4.8
7	3	5320.	392.	452.	1924.	392.	452.	1924.	5600.	0.	0.	0.	.34	62.	10.3	A	13.6	4.8
8	2	880.	0.	0.	1472.	0.	0.	1472.	4400.	0.	0.	0.	.33	62.	11.9	B	14.9	4.8
9	2	1125.	136.	0.	1608.	136.	0.	1608.	4400.	0.	0.	0.	.37	62.	13.0	B	19.9	4.8
10	2	6320.	300.	380.	1908.	300.	380.	1908.	4250.	0.	0.	0.	.45	62.	15.4	B	19.9	4.8
11	2	2050.	0.	0.	1528.	0.	0.	1528.	4100.	0.	0.	0.	.37	62.	12.3	B	19.9	4.8
12	2	2560.	396.	0.	1924.	396.	0.	1924.	4400.	0.	0.	0.	.44	62.	15.5	B	17.2	4.8
13	2	1400.	0.	376.	1924.	0.	376.	1924.	4400.	0.	0.	0.	.44	62.	15.5	B	32.3	4.8
14	2	1320.	0.	0.	1548.	0.	0.	1548.	4400.	0.	0.	0.	.35	62.	12.5	B	14.9	4.8
15	3	540.	676.	844.	2224.	676.	844.	2224.	5180.	420.	0.	0.	.43	62.	12.0	B	12.6	4.8
16	2	1230.	0.	0.	1380.	0.	0.	1380.	4400.	0.	0.	0.	.31	62.	11.1	B	19.9	4.8
17	2	890.	476.	0.	1856.	476.	0.	1856.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
18	2	4840.	176.	320.	2032.	176.	320.	2032.	4400.	0.	0.	0.	.46	62.	16.4	B	17.2	4.8
19	2	530.	0.	0.	1712.	0.	0.	1712.	3800.	0.	0.	0.	.45	62.	13.8	B	19.9	4.8
20	2	1040.	300.	0.	2012.	300.	0.	2012.	4400.	0.	0.	0.	.46	62.	16.2	B	19.9	4.8
21	3	2810.	364.	692.	2376.	364.	692.	2376.	5600.	0.	0.	0.	.42	62.	12.8	B	24.1	4.8
22	2	1850.	0.	0.	1684.	0.	0.	1684.	4400.	0.	0.	0.	.38	62.	13.6	B	17.2	4.8
23	3	2390.	192.	96.	1876.	192.	96.	1876.	5600.	0.	0.	0.	.34	62.	10.1	A	24.1	4.8
24	3	960.	0.	1136.	1780.	0.	1136.	1780.	5600.	0.	0.	0.	.32	62.	9.6	A	17.2	4.8
25	2	1400.	0.	644.	644.	0.	644.	644.	3600.	0.	0.	0.	.18	62.	5.2	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.46 LOWEST LOS = B AVG = 62. 12.9 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	72. VEH-HRS	89. PASS-HRS	2319. VEH-HRS	2884. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	6. VEH-HRS	8. PASS-HRS	566. VEH-HRS	704. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	78. VEH-HRS	97. PASS-HRS	2885. VEH-HRS	3589. PASS-HRS
TOTAL TRAV DISTANCE =	4459. VEH-MI.	5547. PASS-MI.	142694. VEH-MI.	177511. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		62. MPH.	
AVERAGE DENSITY =	13. VPMPL		21. VPMPL	
TOTAL FUEL =	266. GALLONS		8550. GALLONS	
TOTAL EMISSIONS =	22. KILOGRAMS		680. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	0.	6.12	2.32	0.04	0.22	0.04	0.29

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1104.	64.	1104.	1104.	64.	1104.	4100.	0.	0.	0.	.27	62.	8.9	A	13.6	4.8
2	2	1970.	0.	0.	1040.	0.	0.	1040.	4100.	0.	0.	0.	.25	62.	8.4	A	13.6	4.8
3	2	1830.	228.	104.	1268.	228.	104.	1268.	4100.	0.	0.	0.	.31	62.	10.2	A	13.6	4.8
4	2	2010.	0.	0.	1164.	0.	0.	1164.	4400.	0.	0.	0.	.26	62.	9.4	A	13.6	4.8
5	3	2445.	320.	372.	1484.	320.	372.	1484.	5600.	0.	0.	0.	.26	62.	8.0	A	13.6	4.8
6	2	1890.	0.	0.	1112.	0.	0.	1112.	4400.	0.	0.	0.	.25	62.	9.0	A	13.6	4.8
7	3	5320.	512.	344.	1624.	512.	344.	1624.	5600.	0.	0.	0.	.29	62.	8.7	A	13.6	4.8
8	2	880.	0.	0.	1280.	0.	0.	1280.	4400.	0.	0.	0.	.29	62.	10.3	A	14.9	4.8
9	2	1125.	116.	0.	1396.	116.	0.	1396.	4400.	0.	0.	0.	.32	62.	11.3	B	19.9	4.8
10	2	6320.	288.	300.	1684.	288.	300.	1684.	4250.	0.	0.	0.	.40	62.	13.6	B	19.9	4.8
11	2	2050.	0.	0.	1384.	0.	0.	1384.	4100.	0.	0.	0.	.34	62.	11.2	B	19.9	4.8
12	2	2560.	532.	0.	1916.	532.	0.	1916.	4400.	0.	0.	0.	.44	62.	15.5	B	17.2	4.8
13	2	1400.	0.	300.	1916.	0.	300.	1916.	4400.	0.	0.	0.	.44	62.	15.5	B	32.3	4.8
14	2	1320.	0.	0.	1616.	0.	0.	1616.	4400.	0.	0.	0.	.37	62.	13.0	B	14.9	4.8
15	3	540.	608.	976.	2224.	608.	976.	2224.	5256.	344.	0.	0.	.42	62.	12.0	B	12.6	4.8
16	2	1230.	0.	0.	1248.	0.	0.	1248.	4400.	0.	0.	0.	.28	62.	10.1	A	19.9	4.8
17	2	890.	612.	0.	1860.	612.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
18	2	4840.	124.	364.	1984.	124.	364.	1984.	4400.	0.	0.	0.	.45	62.	16.0	B	17.2	4.8
19	2	530.	0.	0.	1620.	0.	0.	1620.	3800.	0.	0.	0.	.43	62.	13.1	B	19.9	4.8
20	2	1040.	256.	0.	1876.	256.	0.	1876.	4400.	0.	0.	0.	.43	62.	15.1	B	19.9	4.8
21	3	2810.	372.	540.	2248.	372.	540.	2248.	5600.	0.	0.	0.	.40	62.	12.1	B	24.1	4.8
22	2	1850.	0.	0.	1708.	0.	0.	1708.	4400.	0.	0.	0.	.39	62.	13.8	B	17.2	4.8
23	3	2390.	220.	104.	1928.	220.	104.	1928.	5600.	0.	0.	0.	.34	62.	10.4	A	24.1	4.8
24	3	960.	0.	1028.	1824.	0.	1028.	1824.	5600.	0.	0.	0.	.33	62.	9.8	A	17.2	4.8
25	2	1400.	0.	796.	796.	0.	796.	796.	3600.	0.	0.	0.	.22	62.	6.4	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.45 LOWEST LOS = B AVG = 62. 11.5 17.2 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	65. VEH-HRS	80. PASS-HRS	2383. VEH-HRS	2965. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	566. VEH-HRS	704. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	65. VEH-HRS	80. PASS-HRS	2949. VEH-HRS	3669. PASS-HRS
TOTAL TRAV DISTANCE =	4000. VEH-MI.	4976. PASS-MI.	146694. VEH-MI.	182487. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	12. VPMPL		20. VPMPL	
TOTAL FUEL =	233. GALLONS		8784. GALLONS	
TOTAL EMISSIONS =	19. KILOGRAMS		699. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1100.	56.	1100.	1100.	56.	1100.	4100.	0.	0.	0.	.27	62.	8.9	A	13.6	4.8
2	2	1970.	0.	0.	1044.	0.	0.	1044.	4100.	0.	0.	0.	.25	62.	8.4	A	13.6	4.8
3	2	1830.	168.	92.	1212.	168.	92.	1212.	4100.	0.	0.	0.	.30	62.	9.8	A	13.6	4.8
4	2	2010.	0.	0.	1120.	0.	0.	1120.	4400.	0.	0.	0.	.25	62.	9.0	A	13.6	4.8
5	3	2445.	248.	232.	1368.	248.	232.	1368.	5600.	0.	0.	0.	.24	62.	7.4	A	13.6	4.8
6	2	1890.	0.	0.	1136.	0.	0.	1136.	4400.	0.	0.	0.	.26	62.	9.2	A	13.6	4.8
7	3	5320.	272.	304.	1408.	272.	304.	1408.	5600.	0.	0.	0.	.25	62.	7.6	A	13.6	4.8
8	2	880.	0.	0.	1104.	0.	0.	1104.	4400.	0.	0.	0.	.25	62.	8.9	A	14.9	4.8
9	2	1125.	180.	0.	1284.	180.	0.	1284.	4400.	0.	0.	0.	.29	62.	10.4	A	19.9	4.8
10	2	6320.	324.	236.	1608.	324.	236.	1608.	4250.	0.	0.	0.	.38	62.	13.0	B	19.9	4.8
11	2	2050.	0.	0.	1372.	0.	0.	1372.	4100.	0.	0.	0.	.33	62.	11.1	B	19.9	4.8
12	2	2560.	508.	0.	1880.	508.	0.	1880.	4400.	0.	0.	0.	.43	62.	15.2	B	17.2	4.8
13	2	1400.	0.	228.	1880.	0.	228.	1880.	4400.	0.	0.	0.	.43	62.	15.2	B	32.3	4.8
14	2	1320.	0.	0.	1652.	0.	0.	1652.	4400.	0.	0.	0.	.38	62.	13.3	B	14.9	4.8
15	3	540.	520.	776.	2172.	520.	776.	2172.	5264.	336.	0.	0.	.41	62.	11.7	B	12.6	4.8
16	2	1230.	0.	0.	1396.	0.	0.	1396.	4400.	0.	0.	0.	.32	62.	11.3	B	19.9	4.8
17	2	890.	568.	0.	1964.	568.	0.	1964.	4400.	0.	0.	0.	.45	62.	15.8	B	19.9	4.8
18	2	4840.	184.	392.	2148.	184.	392.	2148.	4400.	0.	0.	0.	.49	62.	17.3	B	17.2	4.8
19	2	530.	0.	0.	1756.	0.	0.	1756.	3800.	0.	0.	0.	.46	62.	14.2	B	19.9	4.8
20	2	1040.	276.	0.	2032.	276.	0.	2032.	4400.	0.	0.	0.	.46	62.	16.4	B	19.9	4.8
21	3	2810.	356.	620.	2388.	356.	620.	2388.	5600.	0.	0.	0.	.43	62.	12.8	B	24.1	4.8
22	2	1850.	0.	0.	1768.	0.	0.	1768.	4400.	0.	0.	0.	.40	62.	14.3	B	17.2	4.8
23	3	2390.	224.	60.	1992.	224.	60.	1992.	5600.	0.	0.	0.	.36	62.	10.7	A	24.1	4.8
24	3	960.	0.	904.	1932.	0.	904.	1932.	5600.	0.	0.	0.	.34	62.	10.4	A	17.2	4.8
25	2	1400.	0.	1028.	1028.	0.	1028.	1028.	3600.	0.	0.	0.	.29	62.	8.3	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.49		LOWEST LOS = B	AVG = 62.	11.6		17.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	2448. VEH-HRS	3045. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	566. VEH-HRS	704. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	3014. VEH-HRS	3749. PASS-HRS
TOTAL TRAV DISTANCE =	3995. VEH-MI.	4970. PASS-MI.	150689. VEH-MI.	187457. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	12. VPMPL		20. VPMPL	
TOTAL FUEL =	231. GALLONS		9015. GALLONS	
TOTAL EMISSIONS =	19. KILOGRAMS		718. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	800.	72.	800.	800.	72.	800.	4100.	0.	0.	0.	.20	62.	6.5	A	13.6	4.8
2	2	1970.	0.	0.	728.	0.	0.	728.	4100.	0.	0.	0.	.18	62.	5.9	A	13.6	4.8
3	2	1830.	164.	52.	892.	164.	52.	892.	4100.	0.	0.	0.	.22	62.	7.2	A	13.6	4.8
4	2	2010.	0.	0.	840.	0.	0.	840.	4400.	0.	0.	0.	.19	62.	6.8	A	13.6	4.8
5	3	2445.	312.	152.	1152.	312.	152.	1152.	5600.	0.	0.	0.	.21	62.	6.2	A	13.6	4.8
6	2	1890.	0.	0.	1000.	0.	0.	1000.	4400.	0.	0.	0.	.23	62.	8.1	A	13.6	4.8
7	3	5320.	348.	336.	1348.	348.	336.	1348.	5600.	0.	0.	0.	.24	62.	7.2	A	13.6	4.8
8	2	880.	0.	0.	1012.	0.	0.	1012.	4400.	0.	0.	0.	.23	62.	8.2	A	14.9	4.8
9	2	1125.	144.	0.	1156.	144.	0.	1156.	4400.	0.	0.	0.	.26	62.	9.3	A	19.9	4.8
10	2	6320.	280.	168.	1436.	280.	168.	1436.	4250.	0.	0.	0.	.34	62.	11.6	B	19.9	4.8
11	2	2050.	0.	0.	1268.	0.	0.	1268.	4100.	0.	0.	0.	.31	62.	10.2	A	19.9	4.8
12	2	2560.	396.	0.	1664.	396.	0.	1664.	4400.	0.	0.	0.	.38	62.	13.4	B	17.2	4.8
13	2	1400.	0.	236.	1664.	0.	236.	1664.	4400.	0.	0.	0.	.38	62.	13.4	B	32.3	4.8
14	2	1320.	0.	0.	1428.	0.	0.	1428.	4400.	0.	0.	0.	.32	62.	11.5	B	14.9	4.8
15	3	540.	556.	796.	1984.	556.	796.	1984.	5268.	332.	0.	0.	.38	62.	10.7	A	12.6	4.8
16	2	1230.	0.	0.	1188.	0.	0.	1188.	4400.	0.	0.	0.	.27	62.	9.6	A	19.9	4.8
17	2	890.	404.	0.	1592.	404.	0.	1592.	4400.	0.	0.	0.	.36	62.	12.8	B	19.9	4.8
18	2	4840.	160.	280.	1752.	160.	280.	1752.	4400.	0.	0.	0.	.40	62.	14.1	B	17.2	4.8
19	2	530.	0.	0.	1472.	0.	0.	1472.	3800.	0.	0.	0.	.39	62.	11.9	B	19.9	4.8
20	2	1040.	300.	0.	1772.	300.	0.	1772.	4400.	0.	0.	0.	.40	62.	14.3	B	19.9	4.8
21	3	2810.	256.	600.	2028.	256.	600.	2028.	5600.	0.	0.	0.	.36	62.	10.9	A	24.1	4.8
22	2	1850.	0.	0.	1428.	0.	0.	1428.	4400.	0.	0.	0.	.32	62.	11.5	B	17.2	4.8
23	3	2390.	212.	64.	1640.	212.	64.	1640.	5600.	0.	0.	0.	.29	62.	8.8	A	24.1	4.8
24	3	960.	0.	872.	1576.	0.	872.	1576.	5600.	0.	0.	0.	.28	62.	8.5	A	17.2	4.8
25	2	1400.	0.	704.	704.	0.	704.	704.	3600.	0.	0.	0.	.20	62.	5.7	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.40		LOWEST LOS = B	AVG = 62.	9.8		17.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	55. VEH-HRS	68. PASS-HRS	2502. VEH-HRS	3113. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	566. VEH-HRS	704. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	55. VEH-HRS	68. PASS-HRS	3068. VEH-HRS	3817. PASS-HRS
TOTAL TRAV DISTANCE =	3386. VEH-MI.	4212. PASS-MI.	154075. VEH-MI.	191669. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	10. VPMPL		20. VPMPL	
TOTAL FUEL =	195. GALLONS		9210. GALLONS	
TOTAL EMISSIONS =	16. KILOGRAMS		734. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	836.	56.	836.	836.	56.	836.	4100.	0.	0.	0.	.20	62.	6.7	A	13.6	4.8
2	2	1970.	0.	0.	780.	0.	0.	780.	4100.	0.	0.	0.	.19	62.	6.3	A	13.6	4.8
3	2	1830.	112.	60.	892.	112.	60.	892.	4100.	0.	0.	0.	.22	62.	7.2	A	13.6	4.8
4	2	2010.	0.	0.	832.	0.	0.	832.	4400.	0.	0.	0.	.19	62.	6.7	A	13.6	4.8
5	3	2445.	132.	188.	964.	132.	188.	964.	5600.	0.	0.	0.	.17	62.	5.2	A	13.6	4.8
6	2	1890.	0.	0.	776.	0.	0.	776.	4400.	0.	0.	0.	.18	62.	6.3	A	13.6	4.8
7	3	5320.	272.	236.	1048.	272.	236.	1048.	5600.	0.	0.	0.	.19	62.	5.6	A	13.6	4.8
8	2	880.	0.	0.	812.	0.	0.	812.	4400.	0.	0.	0.	.18	62.	6.5	A	14.9	4.8
9	2	1125.	100.	0.	912.	100.	0.	912.	4400.	0.	0.	0.	.21	62.	7.4	A	19.9	4.8
10	2	6320.	148.	140.	1060.	148.	140.	1060.	4250.	0.	0.	0.	.25	62.	8.5	A	19.9	4.8
11	2	2050.	0.	0.	920.	0.	0.	920.	4100.	0.	0.	0.	.22	62.	7.4	A	19.9	4.8
12	2	2560.	384.	0.	1304.	384.	0.	1304.	4400.	0.	0.	0.	.30	62.	10.5	A	17.2	4.8
13	2	1400.	0.	216.	1304.	0.	216.	1304.	4400.	0.	0.	0.	.30	62.	10.5	A	32.3	4.8
14	2	1320.	0.	0.	1088.	0.	0.	1088.	4400.	0.	0.	0.	.25	62.	8.8	A	14.9	4.8
15	3	540.	448.	632.	1536.	448.	632.	1536.	5336.	264.	0.	0.	.29	62.	8.3	A	12.6	4.8
16	2	1230.	0.	0.	904.	0.	0.	904.	4400.	0.	0.	0.	.21	62.	7.3	A	19.9	4.8
17	2	890.	400.	0.	1304.	400.	0.	1304.	4400.	0.	0.	0.	.30	62.	10.5	A	19.9	4.8
18	2	4840.	104.	176.	1408.	104.	176.	1408.	4400.	0.	0.	0.	.32	62.	11.4	B	17.2	4.8
19	2	530.	0.	0.	1232.	0.	0.	1232.	3800.	0.	0.	0.	.32	62.	9.9	A	19.9	4.8
20	2	1040.	252.	0.	1484.	252.	0.	1484.	4400.	0.	0.	0.	.34	62.	12.0	B	19.9	4.8
21	3	2810.	224.	464.	1708.	224.	464.	1708.	5600.	0.	0.	0.	.30	62.	9.2	A	24.1	4.8
22	2	1850.	0.	0.	1244.	0.	0.	1244.	4400.	0.	0.	0.	.28	62.	10.0	A	17.2	4.8
23	3	2390.	176.	28.	1420.	176.	28.	1420.	5600.	0.	0.	0.	.25	62.	7.6	A	24.1	4.8
24	3	960.	0.	808.	1392.	0.	808.	1392.	5600.	0.	0.	0.	.25	62.	7.5	A	17.2	4.8
25	2	1400.	0.	584.	584.	0.	584.	584.	3600.	0.	0.	0.	.16	62.	4.7	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.34		LOWEST LOS = B	AVG = 62.	8.0		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	45. VEH-HRS	56. PASS-HRS	2547. VEH-HRS	3169. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	566. VEH-HRS	704. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	45. VEH-HRS	56. PASS-HRS	3113. VEH-HRS	3873. PASS-HRS
TOTAL TRAV DISTANCE =	2783. VEH-MI.	3462. PASS-MI.	156857. VEH-MI.	195130. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	8. VPMPL		19. VPMPL	
TOTAL FUEL =	162. GALLONS		9372. GALLONS	
TOTAL EMISSIONS =	13. KILOGRAMS		747. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	132.	164.	0.	0.	132.	164.	8021.	9978.	60.9	460.	1.	23.	10.	6:00
2	138.	172.	0.	0.	138.	172.	8336.	10370.	60.4	474.	1.	23.	10.	6:15
3	139.	173.	3.	4.	142.	177.	8456.	10520.	59.5	485.	1.	24.	10.	6:30
4	124.	154.	9.	12.	133.	166.	7639.	9503.	57.3	449.	1.	24.	10.	6:45
5	136.	170.	12.	15.	149.	185.	8335.	10368.	56.1	485.	1.	25.	11.	7:00
6	128.	159.	14.	17.	142.	176.	7868.	9788.	55.5	461.	1.	25.	10.	7:15
7	137.	170.	17.	21.	154.	191.	8319.	10349.	54.0	481.	1.	24.	10.	7:30
8	122.	152.	20.	25.	142.	177.	7560.	9404.	53.1	451.	1.	25.	10.	7:45
9	122.	152.	20.	26.	143.	178.	7573.	9420.	53.0	454.	1.	25.	10.	8:00
10	115.	143.	20.	25.	135.	168.	7138.	8879.	52.9	430.	1.	24.	9.	8:15
11	124.	154.	23.	28.	147.	182.	7662.	9532.	52.3	461.	1.	26.	10.	8:30
12	115.	144.	33.	41.	148.	184.	7148.	8892.	48.2	434.	1.	25.	9.	8:45
13	130.	162.	47.	59.	177.	220.	8006.	9959.	45.2	484.	2.	27.	11.	9:00
14	117.	145.	60.	75.	177.	220.	7227.	8990.	40.8	455.	2.	26.	10.	9:15
15	114.	142.	71.	88.	185.	230.	7058.	8780.	38.2	445.	2.	26.	10.	9:30
16	99.	123.	70.	87.	169.	210.	6124.	7618.	36.3	391.	1.	23.	8.	9:45
17	86.	108.	62.	77.	148.	185.	5361.	6669.	36.1	339.	1.	20.	7.	10:00
18	85.	106.	51.	63.	136.	169.	5287.	6577.	38.9	332.	1.	19.	7.	10:15
19	83.	103.	27.	34.	110.	137.	5118.	6366.	46.6	312.	1.	18.	7.	10:30
20	72.	89.	6.	8.	78.	97.	4459.	5547.	57.1	266.	1.	15.	6.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	65.	80.	0.	0.	65.	80.	4000.	4976.	62.0	233.	1.	13.	5.	11:00
22	64.	80.	0.	0.	64.	80.	3995.	4970.	62.0	231.	1.	13.	5.	11:15
23	55.	68.	0.	0.	55.	68.	3386.	4212.	62.0	195.	1.	11.	4.	11:30
24	45.	56.	0.	0.	45.	56.	2783.	3462.	62.0	162.	0.	9.	4.	11:45
TOTAL	2547.	3169.	566.	704.	3113.	3873.	156857.	195130.	61.6	9372.	30.	513.	204.	

Opening Year (2025) No Build
Southbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	692.	0.	692.	692.	0.	692.	3850.	0.	0.	0.	.18	50.	6.9	A	17.4	2.3
2	2	2070.	192.	0.	884.	192.	0.	884.	3850.	0.	0.	0.	.23	50.	8.8	A	15.9	2.3
3	3	2300.	348.	52.	1232.	348.	52.	1232.	5700.	0.	0.	0.	.22	55.	7.5	A	14.0	2.4
4	3	1020.	0.	0.	1180.	0.	0.	1180.	5700.	0.	0.	0.	.21	62.	6.3	A	19.9	4.8
5	3	710.	80.	0.	1260.	80.	0.	1260.	5700.	0.	0.	0.	.22	62.	6.8	A	16.1	4.4
6	3	3820.	64.	176.	1324.	64.	176.	1324.	6150.	0.	0.	0.	.22	62.	7.1	A	17.1	4.8
7	2	1220.	0.	0.	1148.	0.	0.	1148.	4400.	0.	0.	0.	.26	62.	9.3	A	18.2	4.4
8	2	4810.	188.	132.	1336.	188.	132.	1336.	4100.	0.	0.	0.	.33	62.	10.8	A	20.6	4.4
9	2	1370.	0.	0.	1204.	0.	0.	1204.	4000.	0.	0.	0.	.30	62.	9.7	A	23.6	4.4
10	2	660.	72.	0.	1276.	72.	0.	1276.	4399.	1.	0.	0.	.29	62.	10.3	A	23.6	4.4
11	3	790.	196.	96.	1472.	196.	96.	1472.	6098.	2.	0.	0.	.24	62.	7.9	A	30.0	4.4
12	2	1460.	0.	0.	1376.	0.	0.	1376.	4100.	0.	0.	0.	.34	62.	11.1	B	20.6	4.4
13	2	1400.	100.	0.	1476.	100.	0.	1476.	3970.	0.	0.	0.	.37	62.	11.9	B	13.6	4.4
14	2	2600.	0.	32.	1476.	0.	32.	1476.	3970.	0.	0.	0.	.37	62.	11.9	B	20.6	4.4
15	2	2010.	0.	0.	1444.	0.	0.	1444.	3900.	0.	0.	0.	.37	62.	11.6	B	14.7	4.4
16	2	6120.	104.	80.	1548.	104.	80.	1548.	3850.	0.	0.	0.	.40	62.	12.5	B	18.2	4.4
17	2	1240.	0.	0.	1468.	0.	0.	1468.	4300.	0.	0.	0.	.34	62.	11.8	B	18.2	4.4
18	3	930.	56.	0.	1524.	56.	0.	1524.	6100.	0.	0.	0.	.25	62.	8.2	A	20.6	4.4
19	3	5330.	56.	48.	1580.	56.	48.	1580.	6100.	0.	0.	0.	.26	62.	8.5	A	20.6	4.4
20	2	2830.	0.	0.	1532.	0.	0.	1532.	3800.	0.	0.	0.	.40	61.	12.6	B	21.1	3.8
21	3	1660.	140.	128.	1672.	140.	128.	1672.	6100.	0.	0.	0.	.27	61.	9.1	A	21.1	3.8
22	2	2270.	0.	0.	1544.	0.	0.	1544.	4400.	0.	0.	0.	.35	62.	12.5	B	20.6	4.4
23	2	3040.	20.	44.	1564.	20.	44.	1564.	4100.	0.	0.	0.	.38	62.	12.6	B	20.6	4.4
24	2	2190.	0.	0.	1520.	0.	0.	1520.	4200.	0.	0.	0.	.36	65.	11.7	B	19.2	6.1
25	3	2400.	52.	1572.	1572.	52.	1572.	1572.	6150.	0.	0.	0.	.26	65.	8.1	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.40		LOWEST LOS = B	AVG = 61.	10.2		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	60. VEH-HRS	70. PASS-HRS	60. VEH-HRS	70. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	60. VEH-HRS	70. PASS-HRS	60. VEH-HRS	70. PASS-HRS
TOTAL TRAV DISTANCE =	3696. VEH-MI.	4288. PASS-MI.	3696. VEH-MI.	4288. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	10. VPMPL		10. VPMPL	
TOTAL FUEL =	196. GALLONS		196. GALLONS	
TOTAL EMISSIONS =	16. KILOGRAMS		16. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	988.	0.	988.	988.	0.	988.	3850.	0.	0.	0.	.26	50.	9.9	A	17.4	2.3
2	2	2070.	192.	0.	1180.	192.	0.	1180.	3850.	0.	0.	0.	.31	50.	11.8	B	15.9	2.3
3	3	2300.	520.	52.	1700.	520.	52.	1700.	5700.	0.	0.	0.	.30	55.	10.3	A	14.0	2.4
4	3	1020.	0.	0.	1648.	0.	0.	1648.	5700.	0.	0.	0.	.29	62.	8.9	A	19.9	4.8
5	3	710.	44.	0.	1692.	44.	0.	1692.	5700.	0.	0.	0.	.30	62.	9.1	A	16.1	4.4
6	3	3820.	80.	192.	1772.	80.	192.	1772.	6150.	0.	0.	0.	.29	62.	9.5	A	17.1	4.8
7	2	1220.	0.	0.	1580.	0.	0.	1580.	4400.	0.	0.	0.	.36	62.	12.7	B	18.2	4.4
8	2	4810.	176.	148.	1756.	176.	148.	1756.	4100.	0.	0.	0.	.43	62.	14.2	B	20.6	4.4
9	2	1370.	0.	0.	1608.	0.	0.	1608.	4000.	0.	0.	0.	.40	62.	13.0	B	23.6	4.4
10	2	660.	40.	0.	1648.	40.	0.	1648.	4398.	2.	0.	0.	.37	62.	13.3	B	23.6	4.4
11	3	790.	156.	104.	1804.	156.	104.	1804.	6098.	2.	0.	0.	.30	62.	9.7	A	30.0	4.4
12	2	1460.	0.	0.	1700.	0.	0.	1700.	4100.	0.	0.	0.	.41	62.	13.7	B	20.6	4.4
13	2	1400.	112.	0.	1812.	112.	0.	1812.	3970.	0.	0.	0.	.46	62.	14.6	B	13.6	4.4
14	2	2600.	0.	48.	1812.	0.	48.	1812.	3970.	0.	0.	0.	.46	62.	14.6	B	20.6	4.4
15	2	2010.	0.	0.	1764.	0.	0.	1764.	3900.	0.	0.	0.	.45	62.	14.2	B	14.7	4.4
16	2	6120.	84.	116.	1848.	84.	116.	1848.	3850.	0.	0.	0.	.48	62.	14.9	B	18.2	4.4
17	2	1240.	0.	0.	1732.	0.	0.	1732.	4300.	0.	0.	0.	.40	62.	14.0	B	18.2	4.4
18	3	930.	84.	0.	1816.	84.	0.	1816.	6100.	0.	0.	0.	.30	62.	9.8	A	20.6	4.4
19	3	5330.	80.	68.	1896.	80.	68.	1896.	6100.	0.	0.	0.	.31	62.	10.2	A	20.6	4.4
20	2	2830.	0.	0.	1828.	0.	0.	1828.	3800.	0.	0.	0.	.48	61.	15.0	B	21.1	3.8
21	3	1660.	132.	100.	1960.	132.	100.	1960.	6100.	0.	0.	0.	.32	61.	10.7	A	21.1	3.8
22	2	2270.	0.	0.	1860.	0.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	20.6	4.4
23	2	3040.	64.	76.	1924.	64.	76.	1924.	4100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
24	2	2190.	0.	0.	1848.	0.	0.	1848.	4200.	0.	0.	0.	.44	65.	14.2	B	19.2	6.1
25	3	2400.	68.	1916.	1916.	68.	1916.	1916.	6150.	0.	0.	0.	.31	65.	9.8	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.48		LOWEST LOS = B	AVG = 61.	12.7		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	75. VEH-HRS	87. PASS-HRS	135. VEH-HRS	157. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	75. VEH-HRS	87. PASS-HRS	135. VEH-HRS	157. PASS-HRS
TOTAL TRAV DISTANCE =	4605. VEH-MI.	5342. PASS-MI.	8301. VEH-MI.	9630. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	13. VPMPL		11. VPMPL	
TOTAL FUEL =	244. GALLONS		440. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		36. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1408.	0.	1408.	1408.	0.	1408.	3850.	0.	0.	0.	.37	50.	14.1	B	17.4	2.3
2	2	2070.	276.	0.	1684.	276.	0.	1684.	3850.	0.	0.	0.	.44	50.	16.8	B	15.9	2.3
3	3	2300.	720.	76.	2404.	720.	76.	2404.	5697.	3.	0.	0.	.42	55.	14.6	B	14.0	2.4
4	3	1020.	0.	0.	2328.	0.	0.	2328.	5700.	0.	0.	0.	.41	62.	12.5	B	19.9	4.8
5	3	710.	88.	0.	2416.	88.	0.	2416.	5700.	0.	0.	0.	.42	62.	13.0	B	16.1	4.4
6	3	3820.	128.	376.	2544.	128.	376.	2544.	6150.	0.	0.	0.	.41	62.	13.7	B	17.1	4.8
7	2	1220.	0.	0.	2168.	0.	0.	2168.	4400.	0.	0.	0.	.49	62.	17.5	B	18.2	4.4
8	2	4810.	272.	216.	2440.	272.	216.	2440.	4100.	0.	0.	0.	.60	62.	19.7	C	20.6	4.4
9	2	1370.	0.	0.	2224.	0.	0.	2224.	4000.	0.	0.	0.	.56	62.	17.9	B	23.6	4.4
10	2	660.	96.	0.	2320.	96.	0.	2320.	4398.	2.	0.	0.	.53	62.	18.7	C	23.6	4.4
11	3	790.	328.	148.	2648.	328.	148.	2648.	6066.	34.	0.	0.	.44	62.	14.2	B	30.0	4.4
12	2	1460.	0.	0.	2500.	0.	0.	2500.	4100.	0.	0.	0.	.61	62.	20.2	C	20.6	4.4
13	2	1400.	204.	0.	2704.	204.	0.	2704.	3970.	0.	0.	0.	.68	62.	21.8	C	13.6	4.4
14	2	2600.	0.	72.	2704.	0.	72.	2704.	3970.	0.	0.	0.	.68	62.	21.8	C	20.6	4.4
15	2	2010.	0.	0.	2632.	0.	0.	2632.	3900.	0.	0.	0.	.67	62.	21.2	C	14.7	4.4
16	2	6120.	92.	112.	2724.	92.	112.	2724.	3850.	0.	0.	0.	.71	62.	22.0	C	18.2	4.4
17	2	1240.	0.	0.	2612.	0.	0.	2612.	4300.	0.	0.	0.	.61	62.	21.1	C	18.2	4.4
18	3	930.	136.	0.	2748.	136.	0.	2748.	6100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
19	3	5330.	88.	108.	2836.	88.	108.	2836.	6099.	1.	0.	0.	.47	62.	15.2	B	20.6	4.4
20	2	2830.	0.	0.	2728.	0.	0.	2728.	3800.	0.	0.	0.	.72	61.	22.4	C	21.1	3.8
21	3	1660.	140.	172.	2868.	140.	172.	2868.	6100.	0.	0.	0.	.47	61.	15.7	B	21.1	3.8
22	2	2270.	0.	0.	2696.	0.	0.	2696.	4400.	0.	0.	0.	.61	62.	21.7	C	20.6	4.4
23	2	3040.	92.	48.	2788.	92.	48.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	20.6	4.4
24	2	2190.	0.	0.	2740.	0.	0.	2740.	4200.	0.	0.	0.	.65	65.	21.1	C	19.2	6.1
25	3	2400.	76.	2816.	2816.	76.	2816.	2816.	6150.	0.	0.	0.	.46	65.	14.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.72		LOWEST LOS = C	AVG = 61.	18.6		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	109. VEH-HRS	127. PASS-HRS	244. VEH-HRS	283. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	109. VEH-HRS	127. PASS-HRS	244. VEH-HRS	283. PASS-HRS
TOTAL TRAV DISTANCE =	6712. VEH-MI.	7786. PASS-MI.	15013. VEH-MI.	17415. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		14. VPMPL	
TOTAL FUEL =	356. GALLONS		796. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		66. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1932.	0.	1932.	1932.	0.	1932.	3850.	0.	0.	0.	.50	50.	19.3	C	17.4	2.3
2	2	2070.	368.	0.	2300.	368.	0.	2300.	3847.	3.	0.	0.	.60	50.	23.0	C	15.9	2.3
3	3	2300.	860.	108.	3160.	860.	108.	3160.	5665.	35.	0.	0.	.56	55.	19.2	C	14.0	2.4
4	3	1020.	0.	0.	3052.	0.	0.	3052.	5700.	0.	0.	0.	.54	62.	16.4	B	19.9	4.8
5	3	710.	124.	0.	3176.	124.	0.	3176.	5700.	0.	0.	0.	.56	62.	17.1	B	16.1	4.4
6	3	3820.	240.	624.	3416.	240.	624.	3416.	6150.	0.	0.	0.	.56	62.	18.4	C	17.1	4.8
7	2	1220.	0.	0.	2792.	0.	0.	2792.	4400.	0.	0.	0.	.63	62.	22.5	C	18.2	4.4
8	2	4810.	320.	340.	3112.	320.	340.	3112.	4100.	0.	0.	0.	.76	62.	25.3	C	20.8	4.1
9	2	1370.	0.	0.	2772.	0.	0.	2772.	4000.	0.	0.	0.	.69	62.	22.4	C	23.6	4.4
10	2	660.	100.	0.	2872.	100.	0.	2872.	4395.	5.	0.	0.	.65	62.	23.2	C	23.6	4.4
11	3	790.	352.	336.	3224.	352.	336.	3224.	5853.	247.	0.	0.	.55	62.	17.3	B	30.0	4.4
12	2	1460.	0.	0.	2888.	0.	0.	2888.	4100.	0.	0.	0.	.70	62.	23.3	C	20.6	4.4
13	2	1400.	212.	0.	3100.	212.	0.	3100.	3970.	0.	0.	0.	.78	61.	25.3	C	13.7	4.0
14	2	2600.	0.	196.	3100.	0.	196.	3100.	3970.	0.	0.	0.	.78	61.	25.3	C	20.9	4.0
15	2	2010.	0.	0.	2904.	0.	0.	2904.	3900.	0.	0.	0.	.74	62.	23.4	C	14.7	4.4
16	2	6120.	200.	192.	3104.	200.	192.	3104.	3850.	0.	0.	0.	.81	61.	25.5	C	18.7	3.7
17	2	1240.	0.	0.	2912.	0.	0.	2912.	4300.	0.	0.	0.	.68	62.	23.5	C	18.2	4.4
18	3	930.	168.	0.	3080.	168.	0.	3080.	6100.	0.	0.	0.	.50	62.	16.6	B	20.6	4.4
19	3	5330.	148.	128.	3228.	148.	128.	3228.	6097.	3.	0.	0.	.53	62.	17.4	B	20.6	4.4
20	2	2830.	0.	0.	3100.	0.	0.	3100.	3800.	0.	0.	0.	.82	61.	25.4	C	21.1	3.8
21	3	1660.	316.	356.	3416.	316.	356.	3416.	6100.	0.	0.	0.	.56	61.	18.7	C	21.1	3.8
22	2	2270.	0.	0.	3060.	0.	0.	3060.	4400.	0.	0.	0.	.70	62.	24.7	C	20.6	4.4
23	2	3040.	108.	76.	3168.	108.	76.	3168.	4100.	0.	0.	0.	.77	61.	25.8	C	20.9	4.0
24	2	2190.	0.	0.	3092.	0.	0.	3092.	4200.	0.	0.	0.	.74	64.	24.0	C	19.4	5.8
25	3	2400.	88.	3180.	3180.	88.	3180.	3180.	6150.	0.	0.	0.	.52	65.	16.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.82		LOWEST LOS = C	AVG = 61.	22.2		18.9	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	131. VEH-HRS	152. PASS-HRS	375. VEH-HRS	435. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	131. VEH-HRS	152. PASS-HRS	375. VEH-HRS	435. PASS-HRS
TOTAL TRAV DISTANCE =	7982. VEH-MI.	9259. PASS-MI.	22995. VEH-MI.	26674. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		16. VPMPL	
TOTAL FUEL =	422. GALLONS		1218. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		100. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	856.	0.	856.	856.	0.	856.	3850.	0.	0.	0.	.22	50.	8.6	A	17.4	2.3
2	2	2070.	476.	0.	1332.	476.	0.	1332.	3850.	0.	0.	0.	.35	50.	13.3	B	15.9	2.3
3	3	2300.	1048.	164.	2380.	1048.	164.	2380.	5640.	60.	0.	0.	.42	55.	14.4	B	14.0	2.4
4	3	1020.	0.	0.	2216.	0.	0.	2216.	5700.	0.	0.	0.	.39	62.	11.9	B	19.9	4.8
5	3	710.	128.	0.	2344.	128.	0.	2344.	5700.	0.	0.	0.	.41	62.	12.6	B	16.1	4.4
6	3	3820.	348.	540.	2692.	348.	540.	2692.	6150.	0.	0.	0.	.44	62.	14.5	B	17.1	4.8
7	2	1220.	0.	0.	2152.	0.	0.	2152.	4400.	0.	0.	0.	.49	62.	17.4	B	18.2	4.4
8	2	4810.	404.	356.	2556.	404.	356.	2556.	4100.	0.	0.	0.	.62	62.	20.6	C	20.6	4.4
9	2	1370.	0.	0.	2200.	0.	0.	2200.	4000.	0.	0.	0.	.55	62.	17.7	B	23.6	4.4
10	2	660.	112.	0.	2312.	112.	0.	2312.	4393.	7.	0.	0.	.53	62.	18.6	C	23.6	4.4
11	3	790.	548.	436.	2860.	548.	436.	2860.	5739.	361.	0.	0.	.50	62.	15.4	B	30.0	4.4
12	2	1460.	0.	0.	2424.	0.	0.	2424.	4100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
13	2	1400.	312.	0.	2736.	312.	0.	2736.	3970.	0.	0.	0.	.69	62.	22.1	C	13.6	4.4
14	2	2600.	0.	196.	2736.	0.	196.	2736.	3970.	0.	0.	0.	.69	62.	22.1	C	20.6	4.4
15	2	2010.	0.	0.	2540.	0.	0.	2540.	3900.	0.	0.	0.	.65	62.	20.5	C	14.7	4.4
16	2	6120.	216.	276.	2756.	216.	276.	2756.	3850.	0.	0.	0.	.72	62.	22.2	C	18.2	4.4
17	2	1240.	0.	0.	2480.	0.	0.	2480.	4300.	0.	0.	0.	.58	62.	20.0	C	18.2	4.4
18	3	930.	232.	0.	2712.	232.	0.	2712.	6100.	0.	0.	0.	.44	62.	14.6	B	20.6	4.4
19	3	5330.	204.	212.	2916.	204.	212.	2916.	6097.	3.	0.	0.	.48	62.	15.7	B	20.6	4.4
20	2	2830.	0.	0.	2704.	0.	0.	2704.	3800.	0.	0.	0.	.71	61.	22.2	C	21.1	3.8
21	3	1660.	524.	652.	3228.	524.	652.	3228.	5869.	231.	0.	0.	.55	61.	17.6	B	21.1	3.8
22	2	2270.	0.	0.	2576.	0.	0.	2576.	4400.	0.	0.	0.	.59	62.	20.8	C	20.6	4.4
23	2	3040.	140.	100.	2716.	140.	100.	2716.	4100.	0.	0.	0.	.66	62.	21.9	C	20.6	4.4
24	2	2190.	0.	0.	2616.	0.	0.	2616.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	112.	2728.	2728.	112.	2728.	2728.	6150.	0.	0.	0.	.44	65.	14.0	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.72 LOWEST LOS = C AVG = 62. 18.4 18.9 4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	109. VEH-HRS	126. PASS-HRS	484. VEH-HRS	562. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	109. VEH-HRS	126. PASS-HRS	484. VEH-HRS	562. PASS-HRS
TOTAL TRAV DISTANCE =	6703. VEH-MI.	7776. PASS-MI.	29698. VEH-MI.	34450. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		16. VPMPL	
TOTAL FUEL =	355. GALLONS		1573. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		129. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1088.	0.	1088.	1088.	0.	1088.	3850.	0.	0.	0.	.28	50.	10.9	A	17.4	2.3
2	2	2070.	588.	0.	1676.	588.	0.	1676.	3850.	0.	0.	0.	.44	50.	16.8	B	15.9	2.3
3	3	2300.	1428.	244.	3104.	1428.	244.	3104.	5575.	125.	0.	0.	.56	55.	18.8	C	14.0	2.4
4	3	1020.	0.	0.	2860.	0.	0.	2860.	5700.	0.	0.	0.	.50	62.	15.4	B	19.9	4.8
5	3	710.	192.	0.	3052.	192.	0.	3052.	5700.	0.	0.	0.	.54	62.	16.4	B	16.1	4.4
6	3	3820.	336.	796.	3388.	336.	796.	3388.	6150.	0.	0.	0.	.55	62.	18.2	C	17.1	4.8
7	2	1220.	0.	0.	2592.	0.	0.	2592.	4400.	0.	0.	0.	.59	62.	20.9	C	18.2	4.4
8	2	4810.	460.	392.	3052.	460.	392.	3052.	4100.	0.	0.	0.	.74	62.	24.6	C	20.6	4.4
9	2	1370.	0.	0.	2660.	0.	0.	2660.	4000.	0.	0.	0.	.67	62.	21.5	C	23.6	4.4
10	2	660.	156.	0.	2816.	156.	0.	2816.	4389.	11.	0.	0.	.64	62.	22.7	C	23.6	4.4
11	3	790.	492.	536.	3308.	492.	536.	3308.	5675.	425.	0.	0.	.58	62.	17.8	B	30.0	4.4
12	2	1460.	0.	0.	2772.	0.	0.	2772.	4100.	0.	0.	0.	.68	62.	22.4	C	20.6	4.4
13	2	1400.	396.	0.	3168.	396.	0.	3168.	3970.	0.	0.	0.	.80	61.	25.9	C	13.8	3.8
14	2	2600.	0.	456.	3168.	0.	456.	3168.	3970.	0.	0.	0.	.80	61.	25.9	C	21.1	3.8
15	2	2010.	0.	0.	2712.	0.	0.	2712.	3900.	0.	0.	0.	.70	62.	21.9	C	14.7	4.4
16	2	6120.	304.	308.	3016.	304.	308.	3016.	3850.	0.	0.	0.	.78	62.	24.3	C	18.2	4.4
17	2	1240.	0.	0.	2708.	0.	0.	2708.	4300.	0.	0.	0.	.63	62.	21.8	C	18.2	4.4
18	3	930.	344.	0.	3052.	344.	0.	3052.	6100.	0.	0.	0.	.50	62.	16.4	B	20.6	4.4
19	3	5330.	176.	292.	3228.	176.	292.	3228.	6090.	10.	0.	0.	.53	62.	17.4	B	20.6	4.4
20	2	2830.	0.	0.	2936.	0.	0.	2936.	3800.	0.	0.	0.	.77	61.	24.1	C	21.1	3.8
21	3	1660.	524.	536.	3460.	524.	536.	3460.	5900.	200.	0.	0.	.59	61.	18.9	C	21.1	3.8
22	2	2270.	0.	0.	2924.	0.	0.	2924.	4400.	0.	0.	0.	.66	62.	23.6	C	20.6	4.4
23	2	3040.	316.	180.	3240.	316.	180.	3240.	4100.	0.	0.	0.	.79	61.	26.5	D	21.0	3.9
24	2	2190.	0.	0.	3060.	0.	0.	3060.	4200.	0.	0.	0.	.73	64.	23.7	C	19.4	5.8
25	3	2400.	144.	3204.	3204.	144.	3204.	3204.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 61.	21.4		18.9	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	127. VEH-HRS	147. PASS-HRS	611. VEH-HRS	709. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	127. VEH-HRS	147. PASS-HRS	611. VEH-HRS	709. PASS-HRS
TOTAL TRAV DISTANCE =	7770. VEH-MI.	9013. PASS-MI.	37468. VEH-MI.	43463. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		17. VPMPL	
TOTAL FUEL =	411. GALLONS		1984. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		162. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	964.	0.	964.	964.	0.	964.	3850.	0.	0.	0.	.25	50.	9.6	A	17.4	2.3
2	2	2070.	788.	0.	1752.	788.	0.	1752.	3850.	0.	0.	0.	.46	50.	17.5	B	15.9	2.3
3	3	2300.	1644.	296.	3396.	1644.	296.	3396.	5548.	152.	0.	0.	.61	55.	20.6	C	14.0	2.4
4	3	1020.	0.	0.	3100.	0.	0.	3100.	5700.	0.	0.	0.	.54	62.	16.7	B	19.9	4.8
5	3	710.	256.	0.	3356.	256.	0.	3356.	5700.	0.	0.	0.	.59	62.	18.0	C	16.1	4.4
6	3	3820.	372.	764.	3728.	372.	764.	3728.	6150.	0.	0.	0.	.61	62.	20.0	C	17.1	4.8
7	2	1220.	0.	0.	2964.	0.	0.	2964.	4400.	0.	0.	0.	.67	62.	23.9	C	18.2	4.4
8	2	4810.	652.	496.	3616.	652.	496.	3616.	4100.	0.	0.	0.	.88	59.	30.8	D	22.0	2.9
9	2	1370.	0.	0.	3120.	0.	0.	3120.	4000.	0.	0.	0.	.78	61.	25.4	C	24.0	4.0
10	2	660.	224.	0.	3344.	224.	0.	3344.	4385.	15.	0.	0.	.76	62.	27.2	D	23.8	4.1
11	3	790.	624.	572.	3968.	624.	572.	3968.	5603.	497.	0.	0.	.71	62.	21.3	C	30.0	4.4
12	2	1460.	0.	0.	3396.	0.	0.	3396.	4100.	0.	0.	0.	.83	60.	28.1	D	21.4	3.4
13	2	1400.	376.	0.	3772.	376.	0.	3772.	3942.	28.	0.	0.	.96	55.	34.5	D	15.2	2.0
14	2	2600.	0.	908.	3772.	0.	908.	3772.	3942.	28.	0.	0.	.96	55.	34.5	D	23.2	2.0
15	2	2010.	0.	0.	2864.	0.	0.	2864.	3900.	0.	0.	0.	.73	62.	23.1	C	14.7	4.4
16	2	6120.	364.	316.	3228.	364.	316.	3228.	3850.	0.	0.	0.	.84	60.	26.9	D	19.0	3.2
17	2	1240.	0.	0.	2912.	0.	0.	2912.	4300.	0.	0.	0.	.68	62.	23.5	C	18.2	4.4
18	3	930.	252.	0.	3164.	252.	0.	3164.	6100.	0.	0.	0.	.52	62.	17.0	B	20.6	4.4
19	3	5330.	152.	264.	3316.	152.	264.	3316.	6092.	8.	0.	0.	.54	62.	17.8	B	20.6	4.4
20	2	2830.	0.	0.	3052.	0.	0.	3052.	3800.	0.	0.	0.	.80	61.	25.0	C	21.1	3.8
21	3	1660.	468.	380.	3520.	468.	380.	3520.	6067.	33.	0.	0.	.58	61.	19.2	C	21.1	3.8
22	2	2270.	0.	0.	3140.	0.	0.	3140.	4400.	0.	0.	0.	.71	62.	25.4	C	20.6	4.3
23	2	3040.	316.	192.	3456.	316.	192.	3456.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
24	2	2190.	0.	0.	3264.	0.	0.	3264.	4200.	0.	0.	0.	.78	64.	25.6	C	19.8	5.3
25	3	2400.	196.	3460.	3460.	196.	3460.	3460.	6150.	0.	0.	0.	.56	65.	17.7	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.96		LOWEST LOS = D	AVG = 60.	24.1		19.4	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	142. VEH-HRS	164. PASS-HRS	752. VEH-HRS	873. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	164. PASS-HRS	752. VEH-HRS	873. PASS-HRS
TOTAL TRAV DISTANCE =	8508. VEH-MI.	9869. PASS-MI.	45976. VEH-MI.	53332. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		18. VPMPL	
TOTAL FUEL =	439. GALLONS		2423. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		195. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1248.	0.	1248.	1248.	0.	1248.	3850.	0.	0.	0.	.32	50.	12.5	B	17.4	2.3
2	2	2070.	740.	0.	1988.	740.	0.	1988.	3850.	0.	0.	0.	.52	50.	19.9	C	15.9	2.3
3	3	2300.	1672.	340.	3660.	1672.	340.	3660.	5516.	184.	0.	0.	.66	55.	22.2	C	14.0	2.4
4	3	1020.	0.	0.	3320.	0.	0.	3320.	5700.	0.	0.	0.	.58	62.	17.8	B	19.9	4.8
5	3	710.	288.	0.	3608.	288.	0.	3608.	5700.	0.	0.	0.	.63	62.	19.4	C	16.1	4.4
6	3	3820.	408.	836.	4016.	408.	836.	4016.	6150.	0.	0.	0.	.65	62.	21.6	C	17.1	4.8
7	2	1220.	0.	0.	3180.	0.	0.	3180.	4400.	0.	0.	0.	.72	62.	25.7	C	18.2	4.3
8	2	4810.	656.	532.	3836.	656.	532.	3836.	4100.	0.	0.	0.	.94	56.	34.3	D	22.8	2.2
9	2	1370.	0.	0.	3304.	0.	0.	3304.	4000.	0.	0.	0.	.83	60.	27.3	D	24.5	3.4
10	2	660.	296.	0.	3600.	296.	0.	3600.	4378.	22.	0.	0.	.82	61.	29.7	D	24.5	3.5
11	3	790.	696.	696.	4296.	696.	696.	4169.	5490.	610.	* 184.	127.	.76	59.	23.7	F	29.9	4.4
12	2	1460.	0.	0.	3600.	0.	0.	3473.	4100.	0.	** 1460.	127.	.85	30.	57.4	F	20.3	3.4
13	2	1400.	396.	0.	3996.	396.	0.	3869.	3869.	101.	0.	0.	1.00	52.	37.5	E	15.7	2.0
14	2	2600.	0.	1096.	3996.	0.	1061.	3869.	3869.	101.	0.	0.	1.00	52.	37.5	E	23.9	2.0
15	2	2010.	0.	0.	2900.	0.	0.	2808.	3900.	0.	0.	0.	.72	62.	22.6	C	14.7	4.4
16	2	6120.	412.	376.	3312.	412.	366.	3220.	3850.	0.	0.	0.	.84	60.	26.8	D	19.0	3.3
17	2	1240.	0.	0.	2936.	0.	0.	2854.	4300.	0.	0.	0.	.66	62.	23.0	C	18.2	4.4
18	3	930.	320.	0.	3256.	320.	0.	3174.	6100.	0.	0.	0.	.52	62.	17.1	B	20.6	4.4
19	3	5330.	152.	332.	3408.	152.	324.	3326.	6088.	12.	0.	0.	.55	62.	17.9	B	20.6	4.4
20	2	2830.	0.	0.	3076.	0.	0.	3002.	3800.	0.	0.	0.	.79	61.	24.6	C	21.1	3.8
21	3	1660.	624.	444.	3700.	624.	435.	3626.	5934.	166.	0.	0.	.61	61.	19.8	C	21.1	3.8
22	2	2270.	0.	0.	3256.	0.	0.	3191.	4400.	0.	0.	0.	.73	62.	25.8	C	20.6	4.3
23	2	3040.	300.	316.	3556.	300.	310.	3491.	4100.	0.	0.	0.	.85	60.	29.2	D	21.7	3.1
24	2	2190.	0.	0.	3240.	0.	0.	3181.	4200.	0.	0.	0.	.76	64.	24.8	C	19.6	5.6
25	3	2400.	200.	3440.	3440.	200.	3381.	3381.	6150.	0.	0.	0.	.55	65.	17.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	25.8		19.4	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	152. VEH-HRS	176. PASS-HRS	904. VEH-HRS	1049. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	152. VEH-HRS	176. PASS-HRS	904. VEH-HRS	1049. PASS-HRS
TOTAL TRAV DISTANCE =	8746. VEH-MI.	10146. PASS-MI.	54722. VEH-MI.	63478. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		61. MPH.	
AVERAGE DENSITY =	26. VPMPL		19. VPMPL	
TOTAL FUEL =	450. GALLONS		2873. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		227. KILOGRAMS	

QUEUE CLEAR SECTION 12 T2 =0.247

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2220.	0.	2220.	2220.	0.	2220.	3850.	0.	0.	0.	.58	50.	22.2	C	17.4	2.3
2	2	2070.	640.	0.	2860.	640.	0.	2860.	3833.	17.	0.	0.	.75	50.	28.6	D	15.9	2.3
3	3	2300.	1508.	380.	4368.	1508.	380.	4368.	5431.	269.	0.	0.	.80	55.	26.5	D	14.0	2.4
4	3	1020.	0.	0.	3988.	0.	0.	3988.	5700.	0.	0.	0.	.70	62.	21.4	C	19.9	4.8
5	3	710.	228.	0.	4216.	228.	0.	4216.	5700.	0.	0.	0.	.74	62.	22.7	C	16.1	4.4
6	3	3820.	292.	1048.	4508.	292.	1048.	4508.	6139.	11.	0.	0.	.73	62.	24.2	C	17.1	4.8
7	2	1220.	0.	0.	3460.	0.	0.	3460.	4400.	0.	0.	0.	.79	61.	28.2	D	18.5	3.9
8	2	4810.	576.	808.	4036.	576.	808.	4036.	4100.	0.	0.	0.	.98	53.	38.2	E	23.7	2.0
9	2	1370.	0.	0.	3228.	0.	0.	3228.	4000.	0.	0.	0.	.81	61.	26.5	D	24.2	3.7
10	2	660.	216.	0.	3444.	216.	0.	3444.	4378.	22.	0.	0.	.79	61.	28.1	D	24.0	3.9
11	3	790.	660.	944.	4104.	660.	944.	4104.	5566.	534.	0.	0.	.74	59.	23.2	C	29.9	4.4
12	2	1460.	0.	0.	3160.	0.	0.	3315.	4100.	0.	0.	-155.	.81	28.	60.0	F	19.4	4.1
13	2	1400.	460.	0.	3620.	460.	0.	3775.	3952.	18.	0.	0.	.96	55.	34.4	D	15.2	2.0
14	2	2600.	0.	804.	3620.	0.	838.	3775.	3952.	18.	0.	0.	.96	55.	34.4	D	23.2	2.0
15	2	2010.	0.	0.	2816.	0.	0.	2936.	3900.	0.	0.	0.	.75	62.	23.7	C	14.7	4.4
16	2	6120.	352.	472.	3168.	352.	490.	3288.	3850.	0.	0.	0.	.85	60.	27.6	D	19.2	3.1
17	2	1240.	0.	0.	2696.	0.	0.	2798.	4300.	0.	0.	0.	.65	62.	22.6	C	18.2	4.4
18	3	930.	332.	0.	3028.	332.	0.	3130.	6100.	0.	0.	0.	.51	62.	16.8	B	20.6	4.4
19	3	5330.	168.	372.	3196.	168.	384.	3298.	6090.	10.	0.	0.	.54	62.	17.7	B	20.6	4.4
20	2	2830.	0.	0.	2824.	0.	0.	2915.	3800.	0.	0.	0.	.77	61.	23.9	C	21.1	3.8
21	3	1660.	452.	372.	3276.	452.	382.	3367.	6084.	16.	0.	0.	.55	61.	18.4	C	21.1	3.8
22	2	2270.	0.	0.	2904.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	20.6	4.4
23	2	3040.	140.	268.	3044.	140.	275.	3124.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
24	2	2190.	0.	0.	2776.	0.	0.	2849.	4200.	0.	0.	0.	.68	65.	21.9	C	19.2	6.1
25	3	2400.	204.	2980.	2980.	204.	3053.	3053.	6150.	0.	0.	0.	.50	65.	15.7	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.98		LOWEST LOS = F	AVG = 57.	26.5		19.2	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	155. VEH-HRS	180. PASS-HRS	1059. VEH-HRS	1229. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	155. VEH-HRS	180. PASS-HRS	1059. VEH-HRS	1229. PASS-HRS
TOTAL TRAV DISTANCE =	8922. VEH-MI.	10350. PASS-MI.	63644. VEH-MI.	73828. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		60. MPH.	
AVERAGE DENSITY =	26. VPMPL		20. VPMPL	
TOTAL FUEL =	464. GALLONS		3337. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		260. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1008.	0.	1008.	1008.	0.	1008.	3850.	0.	0.	0.	.26	50.	10.1	A	17.4	2.3
2	2	2070.	644.	0.	1652.	644.	0.	1652.	3850.	0.	0.	0.	.43	50.	16.5	B	15.9	2.3
3	3	2300.	1620.	388.	3272.	1620.	388.	3272.	5504.	196.	0.	0.	.59	55.	19.8	C	14.0	2.4
4	3	1020.	0.	0.	2884.	0.	0.	2884.	5700.	0.	0.	0.	.51	62.	15.5	B	19.9	4.8
5	3	710.	240.	0.	3124.	240.	0.	3124.	5700.	0.	0.	0.	.55	62.	16.8	B	16.1	4.4
6	3	3820.	424.	996.	3548.	424.	996.	3548.	6135.	15.	0.	0.	.58	62.	19.1	C	17.1	4.8
7	2	1220.	0.	0.	2552.	0.	0.	2552.	4400.	0.	0.	0.	.58	62.	20.6	C	18.2	4.4
8	2	4810.	584.	684.	3136.	584.	684.	3136.	4100.	0.	0.	0.	.76	62.	25.5	C	20.8	4.1
9	2	1370.	0.	0.	2452.	0.	0.	2452.	4000.	0.	0.	0.	.61	62.	19.8	C	23.6	4.4
10	2	660.	236.	0.	2688.	236.	0.	2688.	4376.	24.	0.	0.	.61	62.	21.7	C	23.6	4.4
11	3	790.	560.	724.	3248.	560.	724.	3248.	5636.	464.	0.	0.	.58	62.	17.5	B	30.0	4.4
12	2	1460.	0.	0.	2524.	0.	0.	2524.	4100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
13	2	1400.	440.	0.	2964.	440.	0.	2964.	3970.	0.	0.	0.	.75	62.	23.9	C	13.6	4.4
14	2	2600.	0.	628.	2964.	0.	628.	2964.	3970.	0.	0.	0.	.75	62.	23.9	C	20.6	4.4
15	2	2010.	0.	0.	2336.	0.	0.	2336.	3900.	0.	0.	0.	.60	62.	18.8	C	14.7	4.4
16	2	6120.	420.	448.	2756.	420.	448.	2756.	3850.	0.	0.	0.	.72	62.	22.2	C	18.2	4.4
17	2	1240.	0.	0.	2308.	0.	0.	2308.	4300.	0.	0.	0.	.54	62.	18.6	C	18.2	4.4
18	3	930.	288.	0.	2596.	288.	0.	2596.	6100.	0.	0.	0.	.43	62.	14.0	B	20.6	4.4
19	3	5330.	120.	424.	2716.	120.	424.	2716.	6100.	0.	0.	0.	.45	62.	14.6	B	20.6	4.4
20	2	2830.	0.	0.	2292.	0.	0.	2292.	3800.	0.	0.	0.	.60	61.	18.8	C	21.1	3.8
21	3	1660.	492.	452.	2784.	492.	452.	2784.	6026.	74.	0.	0.	.46	61.	15.2	B	21.1	3.8
22	2	2270.	0.	0.	2332.	0.	0.	2332.	4400.	0.	0.	0.	.53	62.	18.8	C	20.6	4.4
23	2	3040.	200.	284.	2532.	200.	284.	2532.	4100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
24	2	2190.	0.	0.	2248.	0.	0.	2248.	4200.	0.	0.	0.	.54	65.	17.3	B	19.2	6.1
25	3	2400.	152.	2400.	2400.	152.	2400.	2400.	6150.	0.	0.	0.	.39	65.	12.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.76 LOWEST LOS = C AVG = 61. 19.2 18.8 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	114. VEH-HRS	132. PASS-HRS	1174. VEH-HRS	1361. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	114. VEH-HRS	132. PASS-HRS	1174. VEH-HRS	1361. PASS-HRS
TOTAL TRAV DISTANCE =	6993. VEH-MI.	8112. PASS-MI.	70638. VEH-MI.	81940. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	373. GALLONS		3710. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		290. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1572.	0.	1572.	1572.	0.	1572.	3850.	0.	0.	0.	.41	50.	15.7	B	17.4	2.3
2	2	2070.	596.	0.	2168.	596.	0.	2168.	3848.	2.	0.	0.	.56	50.	21.7	C	15.9	2.3
3	3	2300.	1728.	324.	3896.	1728.	324.	3896.	5516.	184.	0.	0.	.71	55.	23.6	C	14.0	2.4
4	3	1020.	0.	0.	3572.	0.	0.	3572.	5700.	0.	0.	0.	.63	62.	19.2	C	19.9	4.8
5	3	710.	272.	0.	3844.	272.	0.	3844.	5700.	0.	0.	0.	.67	62.	20.7	C	16.1	4.4
6	3	3820.	352.	952.	4196.	352.	952.	4196.	6150.	0.	0.	0.	.68	62.	22.6	C	17.1	4.8
7	2	1220.	0.	0.	3244.	0.	0.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	18.2	4.2
8	2	4810.	652.	764.	3896.	652.	764.	3896.	4100.	0.	0.	0.	.95	55.	35.3	E	23.1	2.0
9	2	1370.	0.	0.	3132.	0.	0.	3132.	4000.	0.	0.	0.	.78	61.	25.5	C	24.0	3.9
10	2	660.	228.	0.	3360.	228.	0.	3360.	4380.	20.	0.	0.	.77	62.	27.3	D	23.9	4.1
11	3	790.	508.	728.	3868.	508.	728.	3868.	5664.	436.	0.	0.	.68	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3140.	0.	0.	3140.	4100.	0.	0.	0.	.77	62.	25.5	C	20.8	4.1
13	2	1400.	412.	0.	3552.	412.	0.	3552.	3970.	0.	0.	0.	.89	58.	30.6	D	14.5	2.7
14	2	2600.	0.	728.	3552.	0.	728.	3552.	3970.	0.	0.	0.	.89	58.	30.6	D	22.2	2.7
15	2	2010.	0.	0.	2824.	0.	0.	2824.	3900.	0.	0.	0.	.72	62.	22.8	C	14.7	4.4
16	2	6120.	284.	524.	3108.	284.	524.	3108.	3850.	0.	0.	0.	.81	61.	25.5	C	18.7	3.7
17	2	1240.	0.	0.	2584.	0.	0.	2584.	4300.	0.	0.	0.	.60	62.	20.8	C	18.2	4.4
18	3	930.	224.	0.	2808.	224.	0.	2808.	6100.	0.	0.	0.	.46	62.	15.1	B	20.6	4.4
19	3	5330.	108.	424.	2916.	108.	424.	2916.	6096.	4.	0.	0.	.48	62.	15.7	B	20.6	4.4
20	2	2830.	0.	0.	2492.	0.	0.	2492.	3800.	0.	0.	0.	.66	61.	20.4	C	21.1	3.8
21	3	1660.	428.	408.	2920.	428.	408.	2920.	6083.	17.	0.	0.	.48	61.	16.0	B	21.1	3.8
22	2	2270.	0.	0.	2512.	0.	0.	2512.	4400.	0.	0.	0.	.57	62.	20.3	C	20.6	4.4
23	2	3040.	196.	252.	2708.	196.	252.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	20.6	4.4
24	2	2190.	0.	0.	2456.	0.	0.	2456.	4200.	0.	0.	0.	.58	65.	18.9	C	19.2	6.1
25	3	2400.	156.	2612.	2612.	156.	2612.	2612.	6150.	0.	0.	0.	.42	65.	13.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.95		LOWEST LOS = E	AVG = 60.	22.9		19.1	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	1309. VEH-HRS	1518. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	1309. VEH-HRS	1518. PASS-HRS
TOTAL TRAV DISTANCE =	8107. VEH-MI.	9404. PASS-MI.	78745. VEH-MI.	91344. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		20. VPMPL	
TOTAL FUEL =	424. GALLONS		4134. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		322. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1240.	0.	1240.	1240.	0.	1240.	3850.	0.	0.	0.	.32	50.	12.4	B	17.4	2.3
2	2	2070.	680.	0.	1920.	680.	0.	1920.	3850.	0.	0.	0.	.50	50.	19.2	C	15.9	2.3
3	3	2300.	1744.	344.	3664.	1744.	344.	3664.	5520.	180.	0.	0.	.66	55.	22.2	C	14.0	2.4
4	3	1020.	0.	0.	3320.	0.	0.	3320.	5700.	0.	0.	0.	.58	62.	17.8	B	19.9	4.8
5	3	710.	212.	0.	3532.	212.	0.	3532.	5700.	0.	0.	0.	.62	62.	19.0	C	16.1	4.4
6	3	3820.	340.	936.	3872.	340.	936.	3872.	6150.	0.	0.	0.	.63	62.	20.8	C	17.1	4.8
7	2	1220.	0.	0.	2936.	0.	0.	2936.	4400.	0.	0.	0.	.67	62.	23.7	C	18.2	4.4
8	2	4810.	592.	696.	3528.	592.	696.	3528.	4100.	0.	0.	0.	.86	59.	29.7	D	21.8	3.0
9	2	1370.	0.	0.	2832.	0.	0.	2832.	4000.	0.	0.	0.	.71	62.	22.8	C	23.6	4.4
10	2	660.	232.	0.	3064.	232.	0.	3064.	4376.	24.	0.	0.	.70	62.	24.7	C	23.6	4.4
11	3	790.	648.	820.	3712.	648.	820.	3712.	5568.	532.	0.	0.	.67	62.	20.0	C	30.0	4.4
12	2	1460.	0.	0.	2892.	0.	0.	2892.	4100.	0.	0.	0.	.71	62.	23.3	C	20.6	4.4
13	2	1400.	360.	0.	3252.	360.	0.	3252.	3909.	61.	0.	0.	.83	60.	27.0	D	14.0	3.3
14	2	2600.	0.	1052.	3252.	0.	1052.	3252.	3909.	61.	0.	0.	.83	60.	27.0	D	21.5	3.3
15	2	2010.	0.	0.	2200.	0.	0.	2200.	3900.	0.	0.	0.	.56	62.	17.7	B	14.7	4.4
16	2	6120.	332.	616.	2532.	332.	616.	2532.	3850.	0.	0.	0.	.66	62.	20.4	C	18.2	4.4
17	2	1240.	0.	0.	1916.	0.	0.	1916.	4300.	0.	0.	0.	.45	62.	15.5	B	18.2	4.4
18	3	930.	228.	0.	2144.	228.	0.	2144.	6100.	0.	0.	0.	.35	62.	11.5	B	20.6	4.4
19	3	5330.	116.	356.	2260.	116.	356.	2260.	6100.	0.	0.	0.	.37	62.	12.2	B	20.6	4.4
20	2	2830.	0.	0.	1904.	0.	0.	1904.	3800.	0.	0.	0.	.50	61.	15.6	B	21.1	3.8
21	3	1660.	376.	372.	2280.	376.	372.	2280.	6100.	0.	0.	0.	.37	61.	12.5	B	21.1	3.8
22	2	2270.	0.	0.	1908.	0.	0.	1908.	4400.	0.	0.	0.	.43	62.	15.4	B	20.6	4.4
23	2	3040.	144.	240.	2052.	144.	240.	2052.	4100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
24	2	2190.	0.	0.	1812.	0.	0.	1812.	4200.	0.	0.	0.	.43	65.	13.9	B	19.2	6.1
25	3	2400.	100.	1912.	1912.	100.	1912.	1912.	6150.	0.	0.	0.	.31	65.	9.8	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.86		LOWEST LOS = D	AVG = 61.	19.1		18.8	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	113. VEH-HRS	131. PASS-HRS	1422. VEH-HRS	1649. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	113. VEH-HRS	131. PASS-HRS	1422. VEH-HRS	1649. PASS-HRS
TOTAL TRAV DISTANCE =	6863. VEH-MI.	7962. PASS-MI.	85608. VEH-MI.	99306. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	364. GALLONS		4499. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		349. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1868.	0.	1868.	1868.	0.	1868.	3850.	0.	0.	0.	.49	50.	18.7	C	17.4	2.3
2	2	2070.	612.	0.	2480.	612.	0.	2480.	3843.	7.	0.	0.	.65	50.	24.8	C	15.9	2.3
3	3	2300.	1352.	204.	3832.	1352.	204.	3832.	5567.	133.	0.	0.	.69	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3628.	0.	0.	3628.	5700.	0.	0.	0.	.64	62.	19.5	C	19.9	4.8
5	3	710.	216.	0.	3844.	216.	0.	3844.	5700.	0.	0.	0.	.67	62.	20.7	C	16.1	4.4
6	3	3820.	400.	788.	4244.	400.	788.	4244.	6150.	0.	0.	0.	.69	62.	22.8	C	17.1	4.8
7	2	1220.	0.	0.	3456.	0.	0.	3456.	4400.	0.	0.	0.	.79	61.	28.2	D	18.5	3.9
8	2	4810.	596.	656.	4052.	596.	656.	4052.	4100.	0.	0.	0.	.99	52.	38.6	E	23.7	2.0
9	2	1370.	0.	0.	3396.	0.	0.	3396.	4000.	0.	0.	0.	.85	60.	28.4	D	24.9	3.1
10	2	660.	156.	0.	3552.	156.	0.	3552.	4389.	11.	0.	0.	.81	61.	29.2	D	24.3	3.7
11	3	790.	616.	668.	4168.	616.	668.	4168.	5571.	529.	0.	0.	.75	62.	22.4	C	30.0	4.4
12	2	1460.	0.	0.	3500.	0.	0.	3451.	4100.	0. *	663.	49.	.84	43.	39.9	F	21.1	3.3
13	2	1400.	380.	0.	3880.	380.	0.	3831.	3831.	139.	0.	0.	1.00	52.	37.2	E	15.7	2.0
14	2	2600.	0.	1304.	3880.	0.	1288.	3831.	3831.	139.	0.	0.	1.00	52.	37.2	E	23.9	2.0
15	2	2010.	0.	0.	2576.	0.	0.	2544.	3900.	0.	0.	0.	.65	62.	20.5	C	14.7	4.4
16	2	6120.	256.	596.	2832.	256.	589.	2800.	3850.	0.	0.	0.	.73	62.	22.6	C	18.2	4.4
17	2	1240.	0.	0.	2236.	0.	0.	2211.	4300.	0.	0.	0.	.51	62.	17.8	B	18.2	4.4
18	3	930.	264.	0.	2500.	264.	0.	2475.	6100.	0.	0.	0.	.41	62.	13.3	B	20.6	4.4
19	3	5330.	96.	364.	2596.	96.	360.	2571.	6100.	0.	0.	0.	.42	62.	13.8	B	20.6	4.4
20	2	2830.	0.	0.	2232.	0.	0.	2210.	3800.	0.	0.	0.	.58	61.	18.1	C	21.1	3.8
21	3	1660.	328.	284.	2560.	328.	282.	2538.	6100.	0.	0.	0.	.42	61.	13.9	B	21.1	3.8
22	2	2270.	0.	0.	2276.	0.	0.	2257.	4400.	0.	0.	0.	.51	62.	18.2	C	20.6	4.4
23	2	3040.	100.	224.	2376.	100.	222.	2357.	4100.	0.	0.	0.	.57	62.	19.0	C	20.6	4.4
24	2	2190.	0.	0.	2152.	0.	0.	2134.	4200.	0.	0.	0.	.51	65.	16.4	B	19.2	6.1
25	3	2400.	116.	2268.	2268.	116.	2250.	2250.	6150.	0.	0.	0.	.37	65.	11.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	23.1		19.3	3.7

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 13 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	1557. VEH-HRS	1806. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	1557. VEH-HRS	1806. PASS-HRS
TOTAL TRAV DISTANCE =	7848. VEH-MI.	9104. PASS-MI.	93457. VEH-MI.	108410. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		20. VPMPL	
TOTAL FUEL =	407. GALLONS		4906. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		379. KILOGRAMS	

QUEUE CLEAR SECTION 12 FT= 105

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1680.	0.	1680.	1680.	0.	1680.	3850.	0.	0.	0.	.44	50.	16.8	B	17.4	2.3
2	2	2070.	588.	0.	2268.	588.	0.	2268.	3845.	5.	0.	0.	.59	50.	22.7	C	15.9	2.3
3	3	2300.	1412.	332.	3680.	1412.	332.	3680.	5489.	211.	0.	0.	.67	55.	22.3	C	14.0	2.4
4	3	1020.	0.	0.	3348.	0.	0.	3348.	5700.	0.	0.	0.	.59	62.	18.0	B	19.9	4.8
5	3	710.	172.	0.	3520.	172.	0.	3520.	5700.	0.	0.	0.	.62	62.	18.9	C	16.1	4.4
6	3	3820.	280.	700.	3800.	280.	700.	3800.	6150.	0.	0.	0.	.62	62.	20.4	C	17.1	4.8
7	2	1220.	0.	0.	3100.	0.	0.	3100.	4400.	0.	0.	0.	.70	62.	25.0	C	18.2	4.3
8	2	4810.	524.	660.	3624.	524.	660.	3624.	4100.	0.	0.	0.	.88	59.	31.0	D	22.1	2.8
9	2	1370.	0.	0.	2964.	0.	0.	2964.	4000.	0.	0.	0.	.74	62.	23.9	C	23.6	4.4
10	2	660.	252.	0.	3216.	252.	0.	3216.	4384.	16.	0.	0.	.73	62.	26.0	D	23.7	4.3
11	3	790.	504.	536.	3720.	504.	536.	3720.	5648.	452.	0.	0.	.66	62.	20.0	C	30.0	4.4
12	2	1460.	0.	0.	3184.	0.	0.	3235.	4100.	0.	0.	-51.	.79	38.	42.4	E	20.0	4.1
13	2	1400.	272.	0.	3456.	272.	0.	3507.	3907.	63.	0.	0.	.90	58.	30.3	D	14.5	2.7
14	2	2600.	0.	1176.	3456.	0.	1193.	3507.	3907.	63.	0.	0.	.90	58.	30.3	D	22.2	2.7
15	2	2010.	0.	0.	2280.	0.	0.	2314.	3900.	0.	0.	0.	.59	62.	18.7	C	14.7	4.4
16	2	6120.	264.	572.	2544.	264.	580.	2578.	3850.	0.	0.	0.	.67	62.	20.8	C	18.2	4.4
17	2	1240.	0.	0.	1972.	0.	0.	1998.	4300.	0.	0.	0.	.46	62.	16.1	B	18.2	4.4
18	3	930.	288.	0.	2260.	288.	0.	2286.	6100.	0.	0.	0.	.37	62.	12.3	B	20.6	4.4
19	3	5330.	108.	336.	2368.	108.	340.	2394.	6100.	0.	0.	0.	.39	62.	12.9	B	20.6	4.4
20	2	2830.	0.	0.	2032.	0.	0.	2054.	3800.	0.	0.	0.	.54	61.	16.8	B	21.1	3.8
21	3	1660.	312.	380.	2344.	312.	384.	2366.	6100.	0.	0.	0.	.39	61.	12.9	B	21.1	3.8
22	2	2270.	0.	0.	1964.	0.	0.	1983.	4400.	0.	0.	0.	.45	62.	16.0	B	20.6	4.4
23	2	3040.	120.	192.	2084.	120.	194.	2103.	4100.	0.	0.	0.	.51	62.	17.0	B	20.6	4.4
24	2	2190.	0.	0.	1892.	0.	0.	1909.	4200.	0.	0.	0.	.45	65.	14.7	B	19.2	6.1
25	3	2400.	60.	1952.	1952.	60.	1969.	1969.	6150.	0.	0.	0.	.32	65.	10.1	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.90		LOWEST LOS = E	AVG = 59.	20.5		18.9	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	1678. VEH-HRS	1946. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	1678. VEH-HRS	1946. PASS-HRS
TOTAL TRAV DISTANCE =	7140. VEH-MI.	8282. PASS-MI.	100597. VEH-MI.	116692. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		20. VPMPL	
TOTAL FUEL =	378. GALLONS		5284. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		407. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1420.	0.	1420.	1420.	0.	1420.	3850.	0.	0.	0.	.37	50.	14.2	B	17.4	2.3
2	2	2070.	576.	0.	1996.	576.	0.	1996.	3850.	0.	0.	0.	.52	50.	20.0	C	15.9	2.3
3	3	2300.	1432.	264.	3428.	1432.	264.	3428.	5556.	144.	0.	0.	.62	55.	20.8	C	14.0	2.4
4	3	1020.	0.	0.	3164.	0.	0.	3164.	5700.	0.	0.	0.	.56	62.	17.0	B	19.9	4.8
5	3	710.	176.	0.	3340.	176.	0.	3340.	5700.	0.	0.	0.	.59	62.	18.0	B	16.1	4.4
6	3	3820.	288.	760.	3628.	288.	760.	3628.	6150.	0.	0.	0.	.59	62.	19.5	C	17.1	4.8
7	2	1220.	0.	0.	2868.	0.	0.	2868.	4400.	0.	0.	0.	.65	62.	23.1	C	18.2	4.4
8	2	4810.	408.	744.	3276.	408.	744.	3276.	4100.	0.	0.	0.	.80	61.	26.8	D	21.1	3.8
9	2	1370.	0.	0.	2532.	0.	0.	2532.	4000.	0.	0.	0.	.63	62.	20.4	C	23.6	4.4
10	2	660.	224.	0.	2756.	224.	0.	2756.	4382.	18.	0.	0.	.63	62.	22.2	C	23.6	4.4
11	3	790.	460.	596.	3216.	460.	596.	3216.	5702.	398.	0.	0.	.56	62.	17.3	B	30.0	4.4
12	2	1460.	0.	0.	2620.	0.	0.	2620.	4100.	0.	0.	0.	.64	62.	21.1	C	20.6	4.4
13	2	1400.	296.	0.	2916.	296.	0.	2916.	3970.	0.	0.	0.	.73	62.	23.5	C	13.6	4.4
14	2	2600.	0.	572.	2916.	0.	572.	2916.	3970.	0.	0.	0.	.73	62.	23.5	C	20.6	4.4
15	2	2010.	0.	0.	2344.	0.	0.	2344.	3900.	0.	0.	0.	.60	62.	18.9	C	14.7	4.4
16	2	6120.	308.	484.	2652.	308.	484.	2652.	3850.	0.	0.	0.	.69	62.	21.4	C	18.2	4.4
17	2	1240.	0.	0.	2168.	0.	0.	2168.	4300.	0.	0.	0.	.50	62.	17.5	B	18.2	4.4
18	3	930.	320.	0.	2488.	320.	0.	2488.	6100.	0.	0.	0.	.41	62.	13.4	B	20.6	4.4
19	3	5330.	116.	428.	2604.	116.	428.	2604.	6100.	0.	0.	0.	.43	62.	14.0	B	20.6	4.4
20	2	2830.	0.	0.	2176.	0.	0.	2176.	3800.	0.	0.	0.	.57	61.	17.8	B	21.1	3.8
21	3	1660.	244.	324.	2420.	244.	324.	2420.	6100.	0.	0.	0.	.40	61.	13.2	B	21.1	3.8
22	2	2270.	0.	0.	2096.	0.	0.	2096.	4400.	0.	0.	0.	.48	62.	16.9	B	20.6	4.4
23	2	3040.	72.	172.	2168.	72.	172.	2168.	4100.	0.	0.	0.	.53	62.	17.5	B	20.6	4.4
24	2	2190.	0.	0.	1996.	0.	0.	1996.	4200.	0.	0.	0.	.48	65.	15.4	B	19.2	6.1
25	3	2400.	96.	2092.	2092.	96.	2092.	2092.	6150.	0.	0.	0.	.34	65.	10.7	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 61.	19.0		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	113. VEH-HRS	131. PASS-HRS	1790. VEH-HRS	2077. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	113. VEH-HRS	131. PASS-HRS	1790. VEH-HRS	2077. PASS-HRS
TOTAL TRAV DISTANCE =	6889. VEH-MI.	7991. PASS-MI.	107486. VEH-MI.	124684. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	368. GALLONS		5651. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		436. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1456.	0.	1456.	1456.	0.	1456.	3850.	0.	0.	0.	.38	50.	14.6	B	17.4	2.3
2	2	2070.	540.	0.	1996.	540.	0.	1996.	3850.	0.	0.	0.	.52	50.	20.0	C	15.9	2.3
3	3	2300.	1520.	300.	3516.	1520.	300.	3516.	5528.	172.	0.	0.	.64	55.	21.3	C	14.0	2.4
4	3	1020.	0.	0.	3216.	0.	0.	3216.	5700.	0.	0.	0.	.56	62.	17.3	B	19.9	4.8
5	3	710.	156.	0.	3372.	156.	0.	3372.	5700.	0.	0.	0.	.59	62.	18.1	C	16.1	4.4
6	3	3820.	400.	860.	3772.	400.	860.	3772.	6150.	0.	0.	0.	.61	62.	20.3	C	17.1	4.8
7	2	1220.	0.	0.	2912.	0.	0.	2912.	4400.	0.	0.	0.	.66	62.	23.5	C	18.2	4.4
8	2	4810.	524.	688.	3436.	524.	688.	3436.	4100.	0.	0.	0.	.84	60.	28.6	D	21.6	3.2
9	2	1370.	0.	0.	2748.	0.	0.	2748.	4000.	0.	0.	0.	.69	62.	22.2	C	23.6	4.4
10	2	660.	172.	0.	2920.	172.	0.	2920.	4384.	16.	0.	0.	.67	62.	23.5	C	23.6	4.4
11	3	790.	484.	724.	3404.	484.	724.	3404.	5700.	400.	0.	0.	.60	62.	18.3	C	30.0	4.4
12	2	1460.	0.	0.	2680.	0.	0.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	20.6	4.4
13	2	1400.	380.	0.	3060.	380.	0.	3060.	3970.	0.	0.	0.	.77	62.	24.7	C	13.6	4.4
14	2	2600.	0.	512.	3060.	0.	512.	3060.	3970.	0.	0.	0.	.77	62.	24.7	C	20.6	4.4
15	2	2010.	0.	0.	2548.	0.	0.	2548.	3900.	0.	0.	0.	.65	62.	20.5	C	14.7	4.4
16	2	6120.	284.	516.	2832.	284.	516.	2832.	3850.	0.	0.	0.	.74	62.	22.8	C	18.2	4.4
17	2	1240.	0.	0.	2316.	0.	0.	2316.	4300.	0.	0.	0.	.54	62.	18.7	C	18.2	4.4
18	3	930.	232.	0.	2548.	232.	0.	2548.	6100.	0.	0.	0.	.42	62.	13.7	B	20.6	4.4
19	3	5330.	136.	452.	2684.	136.	452.	2684.	6100.	0.	0.	0.	.44	62.	14.4	B	20.6	4.4
20	2	2830.	0.	0.	2232.	0.	0.	2232.	3800.	0.	0.	0.	.59	61.	18.3	C	21.1	3.8
21	3	1660.	296.	416.	2528.	296.	416.	2528.	6100.	0.	0.	0.	.41	61.	13.8	B	21.1	3.8
22	2	2270.	0.	0.	2112.	0.	0.	2112.	4400.	0.	0.	0.	.48	62.	17.0	B	20.6	4.4
23	2	3040.	96.	224.	2208.	96.	224.	2208.	4100.	0.	0.	0.	.54	62.	17.8	B	20.6	4.4
24	2	2190.	0.	0.	1984.	0.	0.	1984.	4200.	0.	0.	0.	.47	65.	15.3	B	19.2	6.1
25	3	2400.	72.	2056.	2056.	72.	2056.	2056.	6150.	0.	0.	0.	.33	65.	10.5	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.84		LOWEST LOS = D	AVG = 61.	19.8		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	117. VEH-HRS	136. PASS-HRS	1908. VEH-HRS	2213. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	117. VEH-HRS	136. PASS-HRS	1908. VEH-HRS	2213. PASS-HRS
TOTAL TRAV DISTANCE =	7147. VEH-MI.	8290. PASS-MI.	114633. VEH-MI.	132974. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		20. VPMPL	
TOTAL FUEL =	381. GALLONS		6032. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		466. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1740.	0.	1740.	1740.	0.	1740.	3850.	0.	0.	0.	.45	50.	17.4	B	17.4	2.3
2	2	2070.	588.	0.	2328.	588.	0.	2328.	3844.	6.	0.	0.	.61	50.	23.3	C	15.9	2.3
3	3	2300.	1248.	244.	3576.	1248.	244.	3576.	5549.	151.	0.	0.	.64	55.	21.7	C	14.0	2.4
4	3	1020.	0.	0.	3332.	0.	0.	3332.	5700.	0.	0.	0.	.58	62.	17.9	B	19.9	4.8
5	3	710.	168.	0.	3500.	168.	0.	3500.	5700.	0.	0.	0.	.61	62.	18.8	C	16.1	4.4
6	3	3820.	324.	832.	3824.	324.	832.	3824.	6150.	0.	0.	0.	.62	62.	20.6	C	17.1	4.8
7	2	1220.	0.	0.	2992.	0.	0.	2992.	4400.	0.	0.	0.	.68	62.	24.1	C	18.2	4.4
8	2	4810.	480.	844.	3472.	480.	844.	3472.	4100.	0.	0.	0.	.85	60.	29.0	D	21.7	3.1
9	2	1370.	0.	0.	2628.	0.	0.	2628.	4000.	0.	0.	0.	.66	62.	21.2	C	23.6	4.4
10	2	660.	136.	0.	2764.	136.	0.	2764.	4387.	13.	0.	0.	.63	62.	22.3	C	23.6	4.4
11	3	790.	568.	644.	3332.	568.	644.	3332.	5625.	475.	0.	0.	.59	62.	17.9	B	30.0	4.4
12	2	1460.	0.	0.	2688.	0.	0.	2688.	4100.	0.	0.	0.	.66	62.	21.7	C	20.6	4.4
13	2	1400.	360.	0.	3048.	360.	0.	3048.	3970.	0.	0.	0.	.77	62.	24.6	C	13.6	4.4
14	2	2600.	0.	500.	3048.	0.	500.	3048.	3970.	0.	0.	0.	.77	62.	24.6	C	20.6	4.4
15	2	2010.	0.	0.	2548.	0.	0.	2548.	3900.	0.	0.	0.	.65	62.	20.5	C	14.7	4.4
16	2	6120.	244.	624.	2792.	244.	624.	2792.	3850.	0.	0.	0.	.73	62.	22.5	C	18.2	4.4
17	2	1240.	0.	0.	2168.	0.	0.	2168.	4300.	0.	0.	0.	.50	62.	17.5	B	18.2	4.4
18	3	930.	252.	0.	2420.	252.	0.	2420.	6100.	0.	0.	0.	.40	62.	13.0	B	20.6	4.4
19	3	5330.	120.	436.	2540.	120.	436.	2540.	6100.	0.	0.	0.	.42	62.	13.7	B	20.6	4.4
20	2	2830.	0.	0.	2104.	0.	0.	2104.	3800.	0.	0.	0.	.55	61.	17.2	B	21.1	3.8
21	3	1660.	228.	368.	2332.	228.	368.	2332.	6100.	0.	0.	0.	.38	61.	12.7	B	21.1	3.8
22	2	2270.	0.	0.	1964.	0.	0.	1964.	4400.	0.	0.	0.	.45	62.	15.8	B	20.6	4.4
23	2	3040.	88.	228.	2052.	88.	228.	2052.	4100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
24	2	2190.	0.	0.	1824.	0.	0.	1824.	4200.	0.	0.	0.	.43	65.	14.0	B	19.2	6.1
25	3	2400.	64.	1888.	1888.	64.	1888.	1888.	6150.	0.	0.	0.	.31	65.	9.7	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.85		LOWEST LOS = D	AVG = 61.	19.5		18.7	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	116. VEH-HRS	134. PASS-HRS	2023. VEH-HRS	2347. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	116. VEH-HRS	134. PASS-HRS	2023. VEH-HRS	2347. PASS-HRS
TOTAL TRAV DISTANCE =	7039. VEH-MI.	8165. PASS-MI.	121672. VEH-MI.	141139. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		20. VPMPL	
TOTAL FUEL =	376. GALLONS		6408. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		496. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1752.	0.	1752.	1752.	0.	1752.	3850.	0.	0.	0.	.46	50.	17.5	B	17.4	2.3
2	2	2070.	604.	0.	2356.	604.	0.	2356.	3844.	6.	0.	0.	.61	50.	23.6	C	15.9	2.3
3	3	2300.	1332.	244.	3688.	1332.	244.	3688.	5544.	156.	0.	0.	.67	55.	22.4	C	14.0	2.4
4	3	1020.	0.	0.	3444.	0.	0.	3444.	5700.	0.	0.	0.	.60	62.	18.5	C	19.9	4.8
5	3	710.	208.	0.	3652.	208.	0.	3652.	5700.	0.	0.	0.	.64	62.	19.6	C	16.1	4.4
6	3	3820.	396.	860.	4048.	396.	860.	4048.	6150.	0.	0.	0.	.66	62.	21.8	C	17.1	4.8
7	2	1220.	0.	0.	3188.	0.	0.	3188.	4400.	0.	0.	0.	.72	62.	25.8	C	18.2	4.3
8	2	4810.	456.	780.	3644.	456.	780.	3644.	4100.	0.	0.	0.	.89	58.	31.2	D	22.1	2.8
9	2	1370.	0.	0.	2864.	0.	0.	2864.	4000.	0.	0.	0.	.72	62.	23.1	C	23.6	4.4
10	2	660.	192.	0.	3056.	192.	0.	3056.	4385.	15.	0.	0.	.70	62.	24.6	C	23.6	4.4
11	3	790.	596.	640.	3652.	596.	640.	3652.	5591.	509.	0.	0.	.65	62.	19.6	C	30.0	4.4
12	2	1460.	0.	0.	3012.	0.	0.	3012.	4100.	0.	0.	0.	.73	62.	24.3	C	20.6	4.4
13	2	1400.	384.	0.	3396.	384.	0.	3396.	3970.	0.	0.	0.	.86	60.	28.5	D	14.2	3.1
14	2	2600.	0.	628.	3396.	0.	628.	3396.	3970.	0.	0.	0.	.86	60.	28.5	D	21.7	3.1
15	2	2010.	0.	0.	2768.	0.	0.	2768.	3900.	0.	0.	0.	.71	62.	22.3	C	14.7	4.4
16	2	6120.	276.	556.	3044.	276.	556.	3044.	3850.	0.	0.	0.	.79	62.	24.5	C	18.2	4.4
17	2	1240.	0.	0.	2488.	0.	0.	2488.	4300.	0.	0.	0.	.58	62.	20.1	C	18.2	4.4
18	3	930.	300.	0.	2788.	300.	0.	2788.	6100.	0.	0.	0.	.46	62.	15.0	B	20.6	4.4
19	3	5330.	108.	416.	2896.	108.	416.	2896.	6094.	6.	0.	0.	.48	62.	15.6	B	20.6	4.4
20	2	2830.	0.	0.	2480.	0.	0.	2480.	3800.	0.	0.	0.	.65	61.	20.3	C	21.1	3.8
21	3	1660.	304.	356.	2784.	304.	356.	2784.	6100.	0.	0.	0.	.46	61.	15.2	B	21.1	3.8
22	2	2270.	0.	0.	2428.	0.	0.	2428.	4400.	0.	0.	0.	.55	62.	19.6	C	20.6	4.4
23	2	3040.	72.	260.	2500.	72.	260.	2500.	4100.	0.	0.	0.	.61	62.	20.2	C	20.6	4.4
24	2	2190.	0.	0.	2240.	0.	0.	2240.	4200.	0.	0.	0.	.53	65.	17.2	B	19.2	6.1
25	3	2400.	88.	2328.	2328.	88.	2328.	2328.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.89 LOWEST LOS = D AVG = 61. 21.8 18.9 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	129. VEH-HRS	149. PASS-HRS	2152. VEH-HRS	2496. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	129. VEH-HRS	149. PASS-HRS	2152. VEH-HRS	2496. PASS-HRS
TOTAL TRAV DISTANCE =	7793. VEH-MI.	9039. PASS-MI.	129464. VEH-MI.	150179. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		20. VPMPL	
TOTAL FUEL =	412. GALLONS		6821. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		527. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1704.	0.	1704.	1704.	0.	1704.	3850.	0.	0.	0.	.44	50.	17.0	B	17.4	2.3
2	2	2070.	580.	0.	2284.	580.	0.	2284.	3845.	5.	0.	0.	.59	50.	22.8	C	15.9	2.3
3	3	2300.	1300.	244.	3584.	1300.	244.	3584.	5553.	147.	0.	0.	.65	55.	21.7	C	14.0	2.4
4	3	1020.	0.	0.	3340.	0.	0.	3340.	5700.	0.	0.	0.	.59	62.	18.0	B	19.9	4.8
5	3	710.	204.	0.	3544.	204.	0.	3544.	5700.	0.	0.	0.	.62	62.	19.1	C	16.1	4.4
6	3	3820.	288.	848.	3832.	288.	848.	3832.	6150.	0.	0.	0.	.62	62.	20.6	C	17.1	4.8
7	2	1220.	0.	0.	2984.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	18.2	4.4
8	2	4810.	480.	748.	3464.	480.	748.	3464.	4100.	0.	0.	0.	.84	60.	28.9	D	21.7	3.2
9	2	1370.	0.	0.	2716.	0.	0.	2716.	4000.	0.	0.	0.	.68	62.	21.9	C	23.6	4.4
10	2	660.	216.	0.	2932.	216.	0.	2932.	4385.	15.	0.	0.	.67	62.	23.6	C	23.6	4.4
11	3	790.	632.	544.	3564.	632.	544.	3564.	5635.	465.	0.	0.	.63	62.	19.2	C	30.0	4.4
12	2	1460.	0.	0.	3020.	0.	0.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
13	2	1400.	364.	0.	3384.	364.	0.	3384.	3970.	0.	0.	0.	.85	60.	28.4	D	14.2	3.1
14	2	2600.	0.	720.	3384.	0.	720.	3384.	3970.	0.	0.	0.	.85	60.	28.4	D	21.7	3.1
15	2	2010.	0.	0.	2664.	0.	0.	2664.	3900.	0.	0.	0.	.68	62.	21.5	C	14.7	4.4
16	2	6120.	240.	568.	2904.	240.	568.	2904.	3850.	0.	0.	0.	.75	62.	23.4	C	18.2	4.4
17	2	1240.	0.	0.	2336.	0.	0.	2336.	4300.	0.	0.	0.	.54	62.	18.8	C	18.2	4.4
18	3	930.	296.	0.	2632.	296.	0.	2632.	6100.	0.	0.	0.	.43	62.	14.2	B	20.6	4.4
19	3	5330.	92.	484.	2724.	92.	484.	2724.	6100.	0.	0.	0.	.45	62.	14.6	B	20.6	4.4
20	2	2830.	0.	0.	2240.	0.	0.	2240.	3800.	0.	0.	0.	.59	61.	18.4	C	21.1	3.8
21	3	1660.	304.	408.	2544.	304.	408.	2544.	6100.	0.	0.	0.	.42	61.	13.9	B	21.1	3.8
22	2	2270.	0.	0.	2136.	0.	0.	2136.	4400.	0.	0.	0.	.49	62.	17.2	B	20.6	4.4
23	2	3040.	76.	228.	2212.	76.	228.	2212.	4100.	0.	0.	0.	.54	62.	17.8	B	20.6	4.4
24	2	2190.	0.	0.	1984.	0.	0.	1984.	4200.	0.	0.	0.	.47	65.	15.3	B	19.2	6.1
25	3	2400.	108.	2092.	2092.	108.	2092.	2092.	6150.	0.	0.	0.	.34	65.	10.7	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.85		LOWEST LOS = D	AVG = 61.	20.5		18.8	4.1

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 19 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	141. PASS-HRS	2273. VEH-HRS	2637. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	121. VEH-HRS	141. PASS-HRS	2273. VEH-HRS	2637. PASS-HRS
TOTAL TRAV DISTANCE =	7367. VEH-MI.	8546. PASS-MI.	136831. VEH-MI.	158725. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		20. VPMPL	
TOTAL FUEL =	391. GALLONS		7212. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		557. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2012.	0.	2012.	2012.	0.	2012.	3850.	0.	0.	0.	.52	50.	20.1	C	17.4	2.3
2	2	2070.	684.	0.	2696.	684.	0.	2696.	3835.	15.	0.	0.	.70	50.	27.0	D	15.9	2.3
3	3	2300.	1528.	388.	4224.	1528.	388.	4224.	5433.	267.	0.	0.	.78	55.	25.6	C	14.0	2.4
4	3	1020.	0.	0.	3836.	0.	0.	3836.	5700.	0.	0.	0.	.67	62.	20.6	C	19.9	4.8
5	3	710.	188.	0.	4024.	188.	0.	4024.	5700.	0.	0.	0.	.71	62.	21.6	C	16.1	4.4
6	3	3820.	392.	860.	4416.	392.	860.	4416.	6150.	0.	0.	0.	.72	62.	23.7	C	17.1	4.8
7	2	1220.	0.	0.	3556.	0.	0.	3556.	4400.	0.	0.	0.	.81	61.	29.2	D	18.7	3.7
8	2	4810.	544.	848.	4100.	544.	848.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
9	2	1370.	0.	0.	3252.	0.	0.	3252.	4000.	0.	0.	0.	.81	61.	26.8	D	24.3	3.6
10	2	660.	256.	0.	3508.	256.	0.	3508.	4380.	20.	0.	0.	.80	61.	28.8	D	24.2	3.8
11	3	790.	656.	712.	4164.	656.	712.	4164.	5532.	568.	0.	0.	.75	62.	22.4	C	30.0	4.4
12	2	1460.	0.	0.	3452.	0.	0.	3452.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
13	2	1400.	396.	0.	3848.	396.	0.	3848.	3897.	73.	0.	0.	.99	53.	36.6	E	15.5	2.0
14	2	2600.	0.	1012.	3848.	0.	1012.	3848.	3897.	73.	0.	0.	.99	53.	36.6	E	23.7	2.0
15	2	2010.	0.	0.	2836.	0.	0.	2836.	3900.	0.	0.	0.	.73	62.	22.9	C	14.7	4.4
16	2	6120.	356.	668.	3192.	356.	668.	3192.	3850.	0.	0.	0.	.83	60.	26.4	D	18.9	3.4
17	2	1240.	0.	0.	2524.	0.	0.	2524.	4300.	0.	0.	0.	.59	62.	20.4	C	18.2	4.4
18	3	930.	432.	0.	2956.	432.	0.	2956.	6100.	0.	0.	0.	.48	62.	15.9	B	20.6	4.4
19	3	5330.	76.	456.	3032.	76.	456.	3032.	6092.	8.	0.	0.	.50	62.	16.3	B	20.6	4.4
20	2	2830.	0.	0.	2576.	0.	0.	2576.	3800.	0.	0.	0.	.68	61.	21.1	C	21.1	3.8
21	3	1660.	248.	364.	2824.	248.	364.	2824.	6100.	0.	0.	0.	.46	61.	15.4	B	21.1	3.8
22	2	2270.	0.	0.	2460.	0.	0.	2460.	4400.	0.	0.	0.	.56	62.	19.8	C	20.6	4.4
23	2	3040.	104.	232.	2564.	104.	232.	2564.	4100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
24	2	2190.	0.	0.	2332.	0.	0.	2332.	4200.	0.	0.	0.	.56	65.	17.9	B	19.2	6.1
25	3	2400.	56.	2388.	2388.	56.	2388.	2388.	6150.	0.	0.	0.	.39	65.	12.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = E	AVG = 59.	24.4		19.3	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	144. VEH-HRS	167. PASS-HRS	2417. VEH-HRS	2804. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	144. VEH-HRS	167. PASS-HRS	2417. VEH-HRS	2804. PASS-HRS
TOTAL TRAV DISTANCE =	8426. VEH-MI.	9774. PASS-MI.	145258. VEH-MI.	168499. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		20. VPMPL	
TOTAL FUEL =	436. GALLONS		7649. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		588. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1884.	0.	1884.	1884.	0.	1884.	3850.	0.	0.	0.	.49	50.	18.8	C	17.4	2.3
2	2	2070.	408.	0.	2292.	408.	0.	2292.	3845.	5.	0.	0.	.60	50.	22.9	C	15.9	2.3
3	3	2300.	1416.	232.	3708.	1416.	232.	3708.	5558.	142.	0.	0.	.67	55.	22.5	C	14.0	2.4
4	3	1020.	0.	0.	3476.	0.	0.	3476.	5700.	0.	0.	0.	.61	62.	18.7	C	19.9	4.8
5	3	710.	184.	0.	3660.	184.	0.	3660.	5700.	0.	0.	0.	.64	62.	19.7	C	16.1	4.4
6	3	3820.	324.	784.	3984.	324.	784.	3984.	6150.	0.	0.	0.	.65	62.	21.4	C	17.1	4.8
7	2	1220.	0.	0.	3200.	0.	0.	3200.	4400.	0.	0.	0.	.73	62.	25.9	C	18.2	4.3
8	2	4810.	476.	676.	3676.	476.	676.	3676.	4100.	0.	0.	0.	.90	58.	31.7	D	22.2	2.7
9	2	1370.	0.	0.	3000.	0.	0.	3000.	4000.	0.	0.	0.	.75	62.	24.2	C	23.6	4.4
10	2	660.	260.	0.	3260.	260.	0.	3260.	4378.	22.	0.	0.	.74	62.	26.4	D	23.7	4.2
11	3	790.	664.	736.	3924.	664.	736.	3924.	5534.	566.	0.	0.	.71	62.	21.1	C	30.0	4.4
12	2	1460.	0.	0.	3188.	0.	0.	3188.	4100.	0.	0.	0.	.78	61.	26.0	C	20.9	4.0
13	2	1400.	416.	0.	3604.	416.	0.	3604.	3970.	0.	0.	0.	.91	57.	31.4	D	14.6	2.6
14	2	2600.	0.	720.	3604.	0.	720.	3604.	3970.	0.	0.	0.	.91	57.	31.4	D	22.4	2.6
15	2	2010.	0.	0.	2884.	0.	0.	2884.	3900.	0.	0.	0.	.74	62.	23.3	C	14.7	4.4
16	2	6120.	344.	632.	3228.	344.	632.	3228.	3850.	0.	0.	0.	.84	60.	26.9	D	19.0	3.2
17	2	1240.	0.	0.	2596.	0.	0.	2596.	4300.	0.	0.	0.	.60	62.	20.9	C	18.2	4.4
18	3	930.	452.	0.	3048.	452.	0.	3048.	6100.	0.	0.	0.	.50	62.	16.4	B	20.6	4.4
19	3	5330.	104.	492.	3152.	104.	492.	3152.	6088.	12.	0.	0.	.52	62.	16.9	B	20.6	4.4
20	2	2830.	0.	0.	2660.	0.	0.	2660.	3800.	0.	0.	0.	.70	61.	21.8	C	21.1	3.8
21	3	1660.	308.	412.	2968.	308.	412.	2968.	6100.	0.	0.	0.	.49	61.	16.2	B	21.1	3.8
22	2	2270.	0.	0.	2556.	0.	0.	2556.	4400.	0.	0.	0.	.58	62.	20.6	C	20.6	4.4
23	2	3040.	96.	312.	2652.	96.	312.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	20.6	4.4
24	2	2190.	0.	0.	2340.	0.	0.	2340.	4200.	0.	0.	0.	.56	65.	18.0	C	19.2	6.1
25	3	2400.	68.	2408.	2408.	68.	2408.	2408.	6150.	0.	0.	0.	.39	65.	12.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.91 LOWEST LOS = D AVG = 60. 22.8 19.1 3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	2552. VEH-HRS	2960. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	2552. VEH-HRS	2960. PASS-HRS
TOTAL TRAV DISTANCE =	8107. VEH-MI.	9404. PASS-MI.	153365. VEH-MI.	177903. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		21. VPMPL	
TOTAL FUEL =	425. GALLONS		8073. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		620. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1652.	0.	1652.	1652.	0.	1652.	3850.	0.	0.	0.	.43	50.	16.5	B	17.4	2.3
2	2	2070.	528.	0.	2180.	528.	0.	2180.	3846.	4.	0.	0.	.57	50.	21.8	C	15.9	2.3
3	3	2300.	1380.	296.	3560.	1380.	296.	3560.	5524.	176.	0.	0.	.64	55.	21.6	C	14.0	2.4
4	3	1020.	0.	0.	3264.	0.	0.	3264.	5700.	0.	0.	0.	.57	62.	17.5	B	19.9	4.8
5	3	710.	208.	0.	3472.	208.	0.	3472.	5700.	0.	0.	0.	.61	62.	18.7	C	16.1	4.4
6	3	3820.	376.	872.	3848.	376.	872.	3848.	6150.	0.	0.	0.	.63	62.	20.7	C	17.1	4.8
7	2	1220.	0.	0.	2976.	0.	0.	2976.	4400.	0.	0.	0.	.68	62.	24.0	C	18.2	4.4
8	2	4810.	612.	796.	3588.	612.	796.	3588.	4100.	0.	0.	0.	.88	59.	30.5	D	22.0	2.9
9	2	1370.	0.	0.	2792.	0.	0.	2792.	4000.	0.	0.	0.	.70	62.	22.5	C	23.6	4.4
10	2	660.	372.	0.	3164.	372.	0.	3164.	4367.	33.	0.	0.	.72	62.	25.6	C	23.6	4.3
11	3	790.	676.	736.	3840.	676.	736.	3840.	5513.	587.	0.	0.	.70	62.	20.6	C	30.0	4.4
12	2	1460.	0.	0.	3104.	0.	0.	3104.	4100.	0.	0.	0.	.76	62.	25.2	C	20.8	4.1
13	2	1400.	292.	0.	3396.	292.	0.	3396.	3970.	0.	0.	0.	.86	60.	28.5	D	14.2	3.1
14	2	2600.	0.	468.	3396.	0.	468.	3396.	3970.	0.	0.	0.	.86	60.	28.5	D	21.7	3.1
15	2	2010.	0.	0.	2928.	0.	0.	2928.	3900.	0.	0.	0.	.75	62.	23.6	C	14.7	4.4
16	2	6120.	316.	632.	3244.	316.	632.	3244.	3850.	0.	0.	0.	.84	60.	27.0	D	19.1	3.2
17	2	1240.	0.	0.	2612.	0.	0.	2612.	4300.	0.	0.	0.	.61	62.	21.1	C	18.2	4.4
18	3	930.	312.	0.	2924.	312.	0.	2924.	6100.	0.	0.	0.	.48	62.	15.7	B	20.6	4.4
19	3	5330.	148.	584.	3072.	148.	584.	3072.	6092.	8.	0.	0.	.50	62.	16.5	B	20.6	4.4
20	2	2830.	0.	0.	2488.	0.	0.	2488.	3800.	0.	0.	0.	.65	61.	20.4	C	21.1	3.8
21	3	1660.	280.	272.	2768.	280.	272.	2768.	6100.	0.	0.	0.	.45	61.	15.1	B	21.1	3.8
22	2	2270.	0.	0.	2496.	0.	0.	2496.	4400.	0.	0.	0.	.57	62.	20.1	C	20.6	4.4
23	2	3040.	84.	364.	2580.	84.	364.	2580.	4100.	0.	0.	0.	.63	62.	20.8	C	20.6	4.4
24	2	2190.	0.	0.	2216.	0.	0.	2216.	4200.	0.	0.	0.	.53	65.	17.0	B	19.2	6.1
25	3	2400.	100.	2316.	2316.	100.	2316.	2316.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.88 LOWEST LOS = D AVG = 60. 22.0 19.0 3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	150. PASS-HRS	2681. VEH-HRS	3110. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	130. VEH-HRS	150. PASS-HRS	2681. VEH-HRS	3110. PASS-HRS
TOTAL TRAV DISTANCE =	7841. VEH-MI.	9095. PASS-MI.	161206. VEH-MI.	186999. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		21. VPMPL	
TOTAL FUEL =	412. GALLONS		8485. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		650. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1772.	0.	1772.	1772.	0.	1772.	3850.	0.	0.	0.	.46	50.	17.7	B	17.4	2.3
2	2	2070.	532.	0.	2304.	532.	0.	2304.	3844.	6.	0.	0.	.60	50.	23.0	C	15.9	2.3
3	3	2300.	1520.	320.	3824.	1520.	320.	3824.	5500.	200.	0.	0.	.70	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3504.	0.	0.	3504.	5700.	0.	0.	0.	.61	62.	18.8	C	19.9	4.8
5	3	710.	156.	0.	3660.	156.	0.	3660.	5700.	0.	0.	0.	.64	62.	19.7	C	16.1	4.4
6	3	3820.	348.	880.	4008.	348.	880.	4008.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3128.	0.	0.	3128.	4400.	0.	0.	0.	.71	62.	25.3	C	18.2	4.3
8	2	4810.	612.	828.	3740.	612.	828.	3740.	4100.	0.	0.	0.	.91	57.	32.7	D	22.4	2.5
9	2	1370.	0.	0.	2912.	0.	0.	2912.	4000.	0.	0.	0.	.73	62.	23.5	C	23.6	4.4
10	2	660.	244.	0.	3156.	244.	0.	3156.	4380.	20.	0.	0.	.72	62.	25.5	C	23.6	4.3
11	3	790.	720.	712.	3876.	720.	712.	3876.	5496.	604.	0.	0.	.71	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3164.	0.	0.	3164.	4100.	0.	0.	0.	.77	61.	25.7	C	20.8	4.0
13	2	1400.	400.	0.	3564.	400.	0.	3564.	3970.	0.	0.	0.	.90	58.	30.8	D	14.5	2.7
14	2	2600.	0.	556.	3564.	0.	556.	3564.	3970.	0.	0.	0.	.90	58.	30.8	D	22.2	2.7
15	2	2010.	0.	0.	3008.	0.	0.	3008.	3900.	0.	0.	0.	.77	62.	24.3	C	14.7	4.4
16	2	6120.	340.	864.	3348.	340.	864.	3348.	3850.	0.	0.	0.	.87	59.	28.3	D	19.3	3.0
17	2	1240.	0.	0.	2484.	0.	0.	2484.	4300.	0.	0.	0.	.58	62.	20.0	C	18.2	4.4
18	3	930.	308.	0.	2792.	308.	0.	2792.	6100.	0.	0.	0.	.46	62.	15.0	B	20.6	4.4
19	3	5330.	124.	464.	2916.	124.	464.	2916.	6096.	4.	0.	0.	.48	62.	15.7	B	20.6	4.4
20	2	2830.	0.	0.	2452.	0.	0.	2452.	3800.	0.	0.	0.	.65	61.	20.1	C	21.1	3.8
21	3	1660.	328.	436.	2780.	328.	436.	2780.	6100.	0.	0.	0.	.46	61.	15.2	B	21.1	3.8
22	2	2270.	0.	0.	2344.	0.	0.	2344.	4400.	0.	0.	0.	.53	62.	18.9	C	20.6	4.4
23	2	3040.	92.	344.	2436.	92.	344.	2436.	4100.	0.	0.	0.	.59	62.	19.6	C	20.6	4.4
24	2	2190.	0.	0.	2092.	0.	0.	2092.	4200.	0.	0.	0.	.50	65.	16.1	B	19.2	6.1
25	3	2400.	68.	2160.	2160.	68.	2160.	2160.	6150.	0.	0.	0.	.35	65.	11.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.91 LOWEST LOS = D AVG = 60. 22.5 19.1 3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	132. VEH-HRS	154. PASS-HRS	2814. VEH-HRS	3264. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	132. VEH-HRS	154. PASS-HRS	2814. VEH-HRS	3264. PASS-HRS
TOTAL TRAV DISTANCE =	7933. VEH-MI.	9203. PASS-MI.	169139. VEH-MI.	196201. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		21. VPMPL	
TOTAL FUEL =	416. GALLONS		8901. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		680. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1840.	0.	1840.	1840.	0.	1840.	3850.	0.	0.	0.	.48	50.	18.4	C	17.4	2.3
2	2	2070.	568.	0.	2408.	568.	0.	2408.	3841.	9.	0.	0.	.63	50.	24.1	C	15.9	2.3
3	3	2300.	1644.	364.	4052.	1644.	364.	4052.	5473.	227.	0.	0.	.74	55.	24.6	C	14.0	2.4
4	3	1020.	0.	0.	3688.	0.	0.	3688.	5700.	0.	0.	0.	.65	62.	19.8	C	19.9	4.8
5	3	710.	184.	0.	3872.	184.	0.	3872.	5700.	0.	0.	0.	.68	62.	20.8	C	16.1	4.4
6	3	3820.	392.	924.	4264.	392.	924.	4264.	6150.	0.	0.	0.	.69	62.	22.9	C	17.1	4.8
7	2	1220.	0.	0.	3340.	0.	0.	3340.	4400.	0.	0.	0.	.76	62.	27.1	D	18.3	4.1
8	2	4810.	564.	904.	3904.	564.	904.	3904.	4100.	0.	0.	0.	.95	55.	35.5	E	23.2	2.0
9	2	1370.	0.	0.	3000.	0.	0.	3000.	4000.	0.	0.	0.	.75	62.	24.2	C	23.6	4.4
10	2	660.	236.	0.	3236.	236.	0.	3236.	4378.	22.	0.	0.	.74	62.	26.2	D	23.7	4.2
11	3	790.	748.	812.	3984.	748.	812.	3984.	5478.	622.	0.	0.	.73	62.	21.4	C	30.0	4.4
12	2	1460.	0.	0.	3172.	0.	0.	3172.	4100.	0.	0.	0.	.77	61.	25.8	C	20.9	4.0
13	2	1400.	428.	0.	3600.	428.	0.	3600.	3970.	0.	0.	0.	.91	58.	31.3	D	14.6	2.6
14	2	2600.	0.	680.	3600.	0.	680.	3600.	3970.	0.	0.	0.	.91	58.	31.3	D	22.4	2.6
15	2	2010.	0.	0.	2920.	0.	0.	2920.	3900.	0.	0.	0.	.75	62.	23.5	C	14.7	4.4
16	2	6120.	240.	640.	3160.	240.	640.	3160.	3850.	0.	0.	0.	.82	61.	26.1	D	18.8	3.5
17	2	1240.	0.	0.	2520.	0.	0.	2520.	4300.	0.	0.	0.	.59	62.	20.3	C	18.2	4.4
18	3	930.	268.	0.	2788.	268.	0.	2788.	6100.	0.	0.	0.	.46	62.	15.0	B	20.6	4.4
19	3	5330.	136.	508.	2924.	136.	508.	2924.	6096.	4.	0.	0.	.48	62.	15.7	B	20.6	4.4
20	2	2830.	0.	0.	2416.	0.	0.	2416.	3800.	0.	0.	0.	.64	61.	19.8	C	21.1	3.8
21	3	1660.	304.	404.	2720.	304.	404.	2720.	6100.	0.	0.	0.	.45	61.	14.9	B	21.1	3.8
22	2	2270.	0.	0.	2316.	0.	0.	2316.	4400.	0.	0.	0.	.53	62.	18.7	C	20.6	4.4
23	2	3040.	92.	324.	2408.	92.	324.	2408.	4100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
24	2	2190.	0.	0.	2084.	0.	0.	2084.	4200.	0.	0.	0.	.50	65.	16.0	B	19.2	6.1
25	3	2400.	116.	2200.	2200.	116.	2200.	2200.	6150.	0.	0.	0.	.36	65.	11.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.95 LOWEST LOS = E AVG = 60. 22.8 19.1 3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	156. PASS-HRS	2948. VEH-HRS	3420. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	156. PASS-HRS	2948. VEH-HRS	3420. PASS-HRS
TOTAL TRAV DISTANCE =	8030. VEH-MI.	9314. PASS-MI.	177169. VEH-MI.	205516. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		21. VPMPL	
TOTAL FUEL =	421. GALLONS		9322. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		711. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME (VEH-HR)	FREEWAY TRAVEL TIME (PAS-HR)	RAMP DELAY (VEH-HR)	RAMP DELAY (PAS-HR)	TOTAL FREEWAY TRAVEL TIME (VEH-HR)	TOTAL FREEWAY TRAVEL TIME (PAS-HR)	TOTAL TRAVEL DISTANCE (VEH-MI)	TOTAL TRAVEL DISTANCE (PAS-MI)	AVERAGE SPEED (MPH)	GASOLINE CONSUMED (GALLONS)	HYDROCARB EMISSIONS (KILOGRAMS)	CARBON MONOXIDE (KILOGRAMS)	NITROUS OXIDES (KILOGRAMS)	BEGIN TIME
1	60.	70.	0.	0.	60.	70.	3696.	4288.	61.5	196.	1.	12.	3.	14:00
2	75.	87.	0.	0.	75.	87.	4605.	5342.	61.4	244.	1.	15.	4.	14:15
3	109.	127.	0.	0.	109.	127.	6712.	7786.	61.4	356.	1.	23.	6.	14:30
4	131.	152.	0.	0.	131.	152.	7982.	9259.	61.1	422.	1.	25.	7.	14:45
5	109.	126.	0.	0.	109.	126.	6703.	7776.	61.5	355.	1.	23.	6.	15:00
6	127.	147.	0.	0.	127.	147.	7770.	9013.	61.3	411.	1.	25.	7.	15:15
7	142.	164.	0.	0.	142.	164.	8508.	9869.	60.0	439.	1.	24.	7.	15:30
8	152.	176.	0.	0.	152.	176.	8746.	10146.	57.7	450.	1.	24.	7.	15:45
9	155.	180.	0.	0.	155.	180.	8922.	10350.	57.4	464.	1.	24.	8.	16:00
10	114.	132.	0.	0.	114.	132.	6993.	8112.	61.3	373.	1.	23.	6.	16:15
11	135.	157.	0.	0.	135.	157.	8107.	9404.	60.0	424.	1.	23.	7.	16:30
12	113.	131.	0.	0.	113.	131.	6863.	7962.	60.7	364.	1.	21.	6.	16:45
13	135.	157.	0.	0.	135.	157.	7848.	9104.	58.0	407.	1.	22.	7.	17:00
14	121.	140.	0.	0.	121.	140.	7140.	8282.	59.2	378.	1.	21.	6.	17:15
15	113.	131.	0.	0.	113.	131.	6889.	7991.	61.1	368.	1.	22.	6.	17:30
16	117.	136.	0.	0.	117.	136.	7147.	8290.	61.0	381.	1.	23.	6.	17:45
17	116.	134.	0.	0.	116.	134.	7039.	8165.	60.9	376.	1.	22.	6.	18:00
18	129.	149.	0.	0.	129.	149.	7793.	9039.	60.6	412.	1.	24.	7.	18:15
19	121.	141.	0.	0.	121.	141.	7367.	8546.	60.7	391.	1.	22.	7.	18:30
20	144.	167.	0.	0.	144.	167.	8426.	9774.	58.6	436.	1.	23.	7.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	135.	156.	0.	0.	135.	156.	8107.	9404.	60.2	425.	1.	23.	7.	19:00
22	130.	150.	0.	0.	130.	150.	7841.	9095.	60.5	412.	1.	23.	7.	19:15
23	132.	154.	0.	0.	132.	154.	7933.	9203.	59.9	416.	1.	22.	7.	19:30
24	134.	156.	0.	0.	134.	156.	8030.	9314.	59.7	421.	1.	22.	7.	19:45
TOTAL	2948.	3420.	0.	0.	2948.	3420.	177169.	205516.	60.1	9322.	25.	531.	154.	

Opening Year (2025) No Build
Southbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2024.	0.	2024.	2024.	0.	2024.	3850.	0.	0.	0.	.53	50.	20.2	C	17.4	2.3
2	2	2070.	624.	0.	2648.	624.	0.	2648.	3837.	13.	0.	0.	.69	50.	26.5	D	15.9	2.3
3	3	2300.	1688.	328.	4336.	1688.	328.	4336.	5885.	215.	0.	0.	.74	55.	26.3	D	14.0	2.4
4	3	1020.	0.	0.	4008.	0.	0.	4008.	6100.	0.	0.	0.	.66	62.	21.5	C	19.9	4.8
5	3	710.	164.	0.	4172.	164.	0.	4172.	6100.	0.	0.	0.	.68	62.	22.4	C	16.1	4.4
6	3	3820.	380.	1052.	4552.	380.	1052.	4552.	6106.	44.	0.	0.	.75	62.	24.5	C	17.1	4.8
7	2	1220.	0.	0.	3500.	0.	0.	3500.	4400.	0.	0.	0.	.80	61.	28.6	D	18.6	3.8
8	2	4810.	584.	692.	4084.	584.	692.	4084.	4600.	0.	0.	0.	.89	58.	35.0	D	22.1	2.8
9	2	1370.	0.	0.	3392.	0.	0.	3392.	4000.	0.	0.	0.	.85	60.	28.4	D	24.9	3.1
10	2	660.	276.	0.	3668.	276.	0.	3668.	4376.	24.	0.	0.	.84	60.	30.5	D	24.7	3.2
11	3	790.	776.	856.	4444.	776.	856.	4310.	5444.	656.	* 249.	134.	.79	58.	25.0	F	29.9	4.4
12	2	1460.	0.	0.	3588.	0.	0.	3454.	4100.	0.	** 1460.	134.	.84	30.	58.4	F	20.2	3.5
13	2	1400.	516.	0.	4104.	516.	0.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	15.7	2.0
14	2	2600.	0.	584.	4104.	0.	565.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	23.9	2.0
15	2	2010.	0.	0.	3520.	0.	0.	3405.	3900.	0.	0.	0.	.87	59.	28.9	D	15.5	2.9
16	2	6120.	400.	640.	3920.	400.	621.	3805.	3850.	0.	0.	0.	.99	52.	36.3	E	21.0	2.0
17	2	1240.	0.	0.	3280.	0.	0.	3184.	4300.	0.	0.	0.	.74	62.	25.8	C	18.3	4.2
18	3	930.	500.	0.	3780.	500.	0.	3684.	6100.	0.	0.	0.	.60	62.	19.8	C	20.6	4.4
19	3	5330.	112.	544.	3892.	112.	531.	3796.	6068.	32.	0.	0.	.63	62.	20.4	C	20.6	4.4
20	2	2830.	0.	0.	3348.	0.	0.	3265.	3800.	0.	0.	0.	.86	59.	27.7	D	22.0	2.9
21	3	1660.	452.	564.	3800.	452.	552.	3717.	5946.	154.	0.	0.	.63	61.	20.3	C	21.1	3.8
22	2	2270.	0.	0.	3236.	0.	0.	3165.	4400.	0.	0.	0.	.72	62.	25.6	C	20.6	4.3
23	2	3040.	120.	348.	3356.	120.	341.	3285.	4100.	0.	0.	0.	.80	61.	26.9	D	21.1	3.8
24	2	2190.	0.	0.	3008.	0.	0.	2945.	4200.	0.	0.	0.	.70	65.	22.7	C	19.3	6.0
25	3	2400.	116.	3124.	3124.	116.	3061.	3061.	6150.	0.	0.	0.	.50	65.	15.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 56.	27.6		19.4	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	178. VEH-HRS	210. PASS-HRS	178. VEH-HRS	210. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	178. VEH-HRS	210. PASS-HRS	178. VEH-HRS	210. PASS-HRS
TOTAL TRAV DISTANCE =	10050. VEH-MI.	11859. PASS-MI.	10050. VEH-MI.	11859. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		56. MPH.	
AVERAGE DENSITY =	28. VPMPL		28. VPMPL	
TOTAL FUEL =	518. GALLONS		518. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		35. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2696.	0.	2696.	2696.	0.	2696.	3850.	0.	0.	0.	.70	50.	27.0	D	17.4	2.3
2	2	2070.	568.	0.	3264.	568.	0.	3264.	3831.	19.	0.	0.	.85	50.	32.6	D	15.9	2.3
3	3	2300.	1508.	368.	4772.	1508.	368.	4772.	5827.	273.	0.	0.	.82	55.	28.9	D	14.0	2.4
4	3	1020.	0.	0.	4404.	0.	0.	4404.	6100.	0.	0.	0.	.72	62.	23.7	C	19.9	4.8
5	3	710.	128.	0.	4532.	128.	0.	4532.	6100.	0.	0.	0.	.74	62.	24.4	C	16.1	4.4
6	3	3820.	304.	1252.	4836.	304.	1252.	4836.	6083.	67.	0.	0.	.80	61.	26.4	D	17.5	4.3
7	2	1220.	0.	0.	3584.	0.	0.	3584.	4400.	0.	0.	0.	.81	61.	29.5	D	18.7	3.6
8	2	4810.	624.	696.	4208.	624.	696.	3870.	4600.	0.	* 1447.	338.	.84	53.	36.3	F	22.3	2.6
9	2	1370.	0.	0.	3512.	0.	0.	3174.	4000.	0.	** 1370.	338.	.79	30.	53.5	F	24.2	3.6
10	2	660.	280.	0.	3792.	280.	0.	3454.	4376.	24.	** 660.	338.	.79	23.	75.3	F	23.4	4.1
11	3	790.	920.	880.	4712.	920.	880.	4374.	5364.	736.	** 790.	338.	.82	21.	68.8	F	29.4	4.1
12	2	1460.	0.	0.	3832.	0.	0.	3494.	4100.	0.	** 1460.	338.	.85	23.	76.0	F	19.4	3.7
13	2	1400.	476.	0.	4308.	476.	0.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	15.7	2.0
14	2	2600.	0.	572.	4308.	0.	527.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	23.9	2.0
15	2	2010.	0.	0.	3736.	0.	0.	3430.	3900.	0.	* 219.	13.	.88	55.	31.4	F	15.5	2.9
16	2	6120.	420.	660.	4156.	420.	611.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3496.	0.	0.	3239.	4300.	0.	0.	0.	.75	62.	26.3	D	18.3	4.2
18	3	930.	472.	0.	3968.	472.	0.	3711.	6099.	1.	0.	0.	.61	62.	19.9	C	20.6	4.4
19	3	5330.	140.	580.	4108.	140.	544.	3851.	6062.	38.	0.	0.	.64	62.	20.7	C	20.6	4.4
20	2	2830.	0.	0.	3528.	0.	0.	3307.	3800.	0.	0.	0.	.87	58.	28.3	D	22.1	2.8
21	3	1660.	504.	636.	4032.	504.	601.	3811.	5846.	254.	0.	0.	.65	61.	20.8	C	21.1	3.8
22	2	2270.	0.	0.	3396.	0.	0.	3210.	4400.	0.	0.	0.	.73	62.	25.9	C	20.6	4.3
23	2	3040.	84.	424.	3480.	84.	402.	3294.	4100.	0.	0.	0.	.80	61.	27.0	D	21.1	3.7
24	2	2190.	0.	0.	3056.	0.	0.	2892.	4200.	0.	0.	0.	.69	65.	22.2	C	19.2	6.1
25	3	2400.	92.	3148.	3148.	92.	2984.	2984.	6150.	0.	0.	0.	.49	65.	15.3	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 52.	31.3		19.3	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	203. VEH-HRS	240. PASS-HRS	381. VEH-HRS	450. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	203. VEH-HRS	240. PASS-HRS	381. VEH-HRS	450. PASS-HRS
TOTAL TRAV DISTANCE =	10500. VEH-MI.	12390. PASS-MI.	20550. VEH-MI.	24248. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		54. MPH.	
AVERAGE DENSITY =	31. VPMPL		29. VPMPL	
TOTAL FUEL =	543. GALLONS		1061. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		70. KILOGRAMS	

QUEUE CLEAR SECTION 15 T2 =0.220

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2140.	0.	2140.	2140.	0.	2140.	3850.	0.	0.	0.	.56	50.	21.4	C	17.4	2.3
2	2	2070.	536.	0.	2676.	536.	0.	2676.	3836.	14.	0.	0.	.70	50.	26.8	D	15.9	2.3
3	3	2300.	1788.	400.	4464.	1788.	400.	4464.	5844.	256.	0.	0.	.76	55.	27.1	D	14.0	2.4
4	3	1020.	0.	0.	4064.	0.	0.	4064.	6100.	0.	0.	0.	.67	62.	21.8	C	19.9	4.8
5	3	710.	128.	0.	4192.	128.	0.	4192.	6100.	0.	0.	0.	.69	62.	22.5	C	16.1	4.4
6	3	3820.	308.	1052.	4500.	308.	1052.	4500.	6126.	24.	0.	0.	.73	62.	24.2	C	17.1	4.8
7	2	1220.	0.	0.	3448.	0.	0.	3107.	4400.	0.	* 230.	341.	.71	60.	25.9	F	18.4	3.9
8	2	4810.	564.	684.	4012.	564.	684.	3671.	4600.	0.	** 4810.	341.	.80	25.	73.5	F	19.3	3.9
9	2	1370.	0.	0.	3328.	0.	0.	2987.	4000.	0.	** 1370.	341.	.75	16.	91.4	F	20.7	5.0
10	2	660.	348.	0.	3676.	348.	0.	3335.	4371.	29.	** 660.	341.	.76	17.	96.9	F	21.4	4.8
11	3	790.	940.	868.	4616.	940.	868.	4275.	5373.	727.	** 790.	341.	.80	19.	74.7	F	27.7	4.4
12	2	1460.	0.	0.	3748.	0.	0.	3407.	4100.	0.	** 1460.	341.	.83	21.	79.6	F	18.9	4.0
13	2	1400.	540.	0.	4288.	540.	0.	3947.	3947.	23.	0.	0.	1.00	52.	38.3	E	15.7	2.0
14	2	2600.	0.	672.	4288.	0.	619.	3947.	3947.	23.	0.	0.	1.00	52.	38.3	E	23.9	2.0
15	2	2010.	0.	0.	3616.	0.	0.	3345.	3900.	0.	0.	-16.	.86	56.	30.1	D	15.3	3.1
16	2	6120.	492.	696.	4108.	492.	650.	3837.	3850.	0.	0.	0.	.99	52.	37.0	E	21.1	2.0
17	2	1240.	0.	0.	3412.	0.	0.	3187.	4300.	0.	0.	0.	.74	62.	25.8	C	18.3	4.2
18	3	930.	504.	0.	3916.	504.	0.	3691.	6099.	1.	0.	0.	.61	62.	19.8	C	20.6	4.4
19	3	5330.	160.	556.	4076.	160.	525.	3851.	6065.	35.	0.	0.	.63	62.	20.7	C	20.6	4.4
20	2	2830.	0.	0.	3520.	0.	0.	3326.	3800.	0.	0.	0.	.88	58.	28.5	D	22.1	2.8
21	3	1660.	480.	656.	4000.	480.	624.	3806.	5860.	240.	0.	0.	.65	61.	20.8	C	21.1	3.8
22	2	2270.	0.	0.	3344.	0.	0.	3182.	4400.	0.	0.	0.	.72	62.	25.7	C	20.6	4.3
23	2	3040.	96.	380.	3440.	96.	362.	3278.	4100.	0.	0.	0.	.80	61.	26.9	D	21.1	3.8
24	2	2190.	0.	0.	3060.	0.	0.	2916.	4200.	0.	0.	0.	.69	65.	22.5	C	19.3	6.0
25	3	2400.	84.	3144.	3144.	84.	3000.	3000.	6150.	0.	0.	0.	.49	65.	15.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 46.	34.3		19.0	3.6

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 3 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	219. VEH-HRS	259. PASS-HRS	601. VEH-HRS	709. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	219. VEH-HRS	259. PASS-HRS	601. VEH-HRS	709. PASS-HRS
TOTAL TRAV DISTANCE =	9991. VEH-MI.	11789. PASS-MI.	30541. VEH-MI.	36038. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		51. MPH.	
AVERAGE DENSITY =	34. VPMPL		31. VPMPL	
TOTAL FUEL =	525. GALLONS		1586. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		106. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2668.	0.	2668.	2668.	0.	2668.	3850.	0.	0.	0.	.69	50.	26.7	D	17.4	2.3
2	2	2070.	472.	0.	3140.	472.	0.	3140.	3835.	15.	0.	0.	.82	50.	31.4	D	15.9	2.3
3	3	2300.	1636.	352.	4776.	1636.	352.	4776.	5851.	249.	0.	0.	.82	55.	28.9	D	14.0	2.4
4	3	1020.	0.	0.	4424.	0.	0.	4424.	6100.	0.	0.	0.	.73	62.	23.8	C	19.9	4.8
5	3	710.	128.	0.	4552.	128.	0.	4552.	6100.	0.	0.	0.	.75	62.	24.5	C	16.1	4.4
6	3	3820.	264.	1104.	4816.	264.	1104.	4402.	6130.	20.	* 1899.	414.	.72	40.	36.8	F	16.5	4.6
7	2	1220.	0.	0.	3712.	0.	0.	3298.	4400.	0.	** 1220.	414.	.75	18.	91.8	F	14.7	4.7
8	2	4810.	540.	772.	4252.	540.	772.	3838.	4600.	0.	** 4810.	414.	.83	22.	88.6	F	19.0	3.9
9	2	1370.	0.	0.	3480.	0.	0.	3066.	4000.	0.	** 1370.	414.	.77	17.	88.2	F	21.6	4.7
10	2	660.	264.	0.	3744.	264.	0.	3330.	4376.	24.	** 660.	414.	.76	17.	97.4	F	21.3	4.8
11	3	790.	972.	908.	4716.	972.	908.	4302.	5352.	748.	** 790.	414.	.80	20.	73.2	F	28.4	4.3
12	2	1460.	0.	0.	3808.	0.	0.	3394.	4100.	0.	** 1460.	414.	.83	21.	80.1	F	18.9	4.0
13	2	1400.	576.	0.	4384.	576.	0.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	15.7	2.0
14	2	2600.	0.	600.	4384.	0.	543.	3809.	3970.	0.	* 822.	161.	.96	51.	37.3	F	23.9	2.0
15	2	2010.	0.	0.	3784.	0.	0.	3266.	3900.	0.	** 2010.	161.	.84	30.	53.9	F	14.2	3.4
16	2	6120.	584.	628.	4368.	584.	554.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3740.	0.	0.	3296.	4300.	0.	0.	0.	.77	62.	26.8	D	18.4	4.1
18	3	930.	444.	0.	4184.	444.	0.	3740.	6098.	2.	0.	0.	.61	62.	20.1	C	20.6	4.4
19	3	5330.	132.	540.	4316.	132.	485.	3872.	6067.	33.	0.	0.	.64	62.	20.8	C	20.6	4.4
20	2	2830.	0.	0.	3776.	0.	0.	3388.	3800.	0.	0.	0.	.89	58.	29.4	D	22.3	2.6
21	3	1660.	516.	716.	4292.	516.	651.	3904.	5798.	302.	0.	0.	.67	61.	21.3	C	21.1	3.8
22	2	2270.	0.	0.	3576.	0.	0.	3253.	4400.	0.	0.	0.	.74	62.	26.3	D	20.7	4.2
23	2	3040.	316.	392.	3892.	316.	359.	3569.	4100.	0.	0.	0.	.87	59.	30.2	D	21.9	3.0
24	2	2190.	0.	0.	3500.	0.	0.	3210.	4200.	0.	0.	0.	.76	64.	25.1	C	19.6	5.5
25	3	2400.	116.	3616.	3616.	116.	3326.	3326.	6150.	0.	0.	0.	.54	65.	17.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 41.	39.6		18.8	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	253. VEH-HRS	299. PASS-HRS	854. VEH-HRS	1008. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	253. VEH-HRS	299. PASS-HRS	854. VEH-HRS	1008. PASS-HRS
TOTAL TRAV DISTANCE =	10468. VEH-MI.	12352. PASS-MI.	41009. VEH-MI.	48390. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		48. MPH.	
AVERAGE DENSITY =	40. VPMPL		33. VPMPL	
TOTAL FUEL =	557. GALLONS		2143. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		143. KILOGRAMS	

QUEUE COLLISION IN SECTION 13 T2 =0.100

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2200.	0.	2200.	2200.	0.	2200.	3850.	0.	0.	0.	.57	50.	22.0	C	17.4	2.3
2	2	2070.	452.	0.	2652.	452.	0.	2652.	3834.	16.	0.	0.	.69	50.	26.5	D	15.9	2.3
3	3	2300.	1464.	496.	4116.	1464.	496.	4116.	5761.	339.	0.	0.	.71	55.	24.9	C	14.0	2.4
4	3	1020.	0.	0.	3620.	0.	0.	3620.	6100.	0.	0.	0.	.59	62.	19.5	C	19.9	4.8
5	3	710.	72.	0.	3692.	72.	0.	3692.	6100.	0.	0.	0.	.61	62.	19.8	C	16.1	4.4
6	3	3820.	276.	1108.	3968.	276.	1108.	3853.	6130.	20.	* 1918.	115.	.63	21.	60.3	F	14.2	5.5
7	2	1220.	0.	0.	2860.	0.	0.	2745.	4400.	0.	** 1220.	115.	.62	12.	113.9	F	12.6	5.8
8	2	4810.	508.	724.	3368.	508.	724.	3253.	4600.	0.	** 4810.	115.	.71	16.	104.8	F	16.4	5.1
9	2	1370.	0.	0.	2644.	0.	0.	2529.	4000.	0.	** 1370.	115.	.63	12.	101.5	F	16.9	5.8
10	2	660.	324.	0.	2968.	324.	0.	2853.	4373.	27.	** 660.	115.	.65	13.	108.4	F	17.6	5.6
11	3	790.	1068.	760.	4036.	1068.	760.	3921.	5507.	593.	** 790.	115.	.71	16.	84.0	F	23.5	5.1
12	2	1460.	0.	0.	3276.	0.	0.	3161.	4100.	0.	** 1460.	115.	.77	19.	82.5	F	18.1	4.4
13	2	1400.	544.	0.	3820.	544.	0.	3705.	3970.	0.	** 1400.	265.	.93	35.	52.5	F	14.9	2.6
14	2	2600.	0.	388.	3820.	0.	403.	3705.	3970.	0.	** 2600.	265.	.93	32.	58.4	F	21.9	2.8
15	2	2010.	0.	0.	3432.	0.	0.	3302.	3900.	0.	** 2010.	265.	.85	23.	73.2	F	13.5	3.8
16	2	6120.	548.	500.	3980.	548.	484.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3480.	0.	0.	3366.	4300.	0.	0.	0.	.78	61.	27.5	D	18.5	3.9
18	3	930.	356.	0.	3836.	356.	0.	3722.	6099.	1.	0.	0.	.61	62.	20.0	C	20.6	4.4
19	3	5330.	104.	480.	3940.	104.	466.	3826.	6076.	24.	0.	0.	.63	62.	20.6	C	20.6	4.4
20	2	2830.	0.	0.	3460.	0.	0.	3360.	3800.	0.	0.	0.	.88	58.	29.0	D	22.2	2.7
21	3	1660.	500.	668.	3960.	500.	651.	3860.	5850.	250.	0.	0.	.66	61.	21.1	C	21.1	3.8
22	2	2270.	0.	0.	3292.	0.	0.	3209.	4400.	0.	0.	0.	.73	62.	25.9	C	20.6	4.3
23	2	3040.	260.	376.	3552.	260.	367.	3469.	4100.	0.	0.	0.	.85	60.	29.0	D	21.7	3.2
24	2	2190.	0.	0.	3176.	0.	0.	3102.	4200.	0.	0.	0.	.74	64.	24.1	C	19.5	5.7
25	3	2400.	144.	3320.	3320.	144.	3246.	3246.	6150.	0.	0.	0.	.53	65.	16.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 34.	44.2		18.1	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	286. VEH-HRS	338. PASS-HRS	1140. VEH-HRS	1345. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	286. VEH-HRS	338. PASS-HRS	1140. VEH-HRS	1345. PASS-HRS
TOTAL TRAV DISTANCE =	9705. VEH-MI.	11452. PASS-MI.	50713. VEH-MI.	59842. PASS-MI.
AVERAGE SYSTEM SPEED =	34. MPH.		44. MPH.	
AVERAGE DENSITY =	44. VPMPL		35. VPMPL	
TOTAL FUEL =	537. GALLONS		2680. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		180. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2292.	0.	2292.	2292.	0.	2292.	3850.	0.	0.	0.	.60	50.	22.9	C	17.4	2.3
2	2	2070.	396.	0.	2688.	396.	0.	2688.	3837.	13.	0.	0.	.70	50.	26.9	D	15.9	2.3
3	3	2300.	1420.	428.	4108.	1420.	428.	4108.	5805.	295.	0.	0.	.71	55.	24.9	C	14.0	2.4
4	3	1020.	0.	0.	3680.	0.	0.	3680.	6100.	0.	0.	0.	.60	62.	19.8	C	19.9	4.8
5	3	710.	64.	0.	3744.	64.	0.	3744.	6100.	0.	0.	0.	.61	62.	20.1	C	16.1	4.4
6	3	3820.	220.	1108.	3964.	220.	1108.	3802.	6142.	8.	* 2680.	162.	.62	17.	76.3	F	13.3	5.9
7	2	1220.	0.	0.	2856.	0.	0.	2694.	4400.	0.	** 1220.	162.	.61	11.	124.7	F	12.1	6.1
8	2	4810.	532.	684.	3388.	532.	684.	3226.	4600.	0.	** 4810.	162.	.70	14.	113.6	F	15.7	5.4
9	2	1370.	0.	0.	2704.	0.	0.	2542.	4000.	0.	** 1370.	162.	.64	12.	109.6	F	15.9	6.0
10	2	660.	308.	0.	3012.	308.	0.	2850.	4375.	25.	** 660.	162.	.65	12.	117.0	F	16.5	5.8
11	3	790.	1016.	724.	4028.	1016.	724.	3866.	5525.	575.	** 790.	162.	.70	14.	91.2	F	21.7	5.4
12	2	1460.	0.	0.	3304.	0.	0.	3142.	4100.	0.	** 1460.	162.	.77	17.	90.4	F	17.3	4.8
13	2	1400.	564.	0.	3868.	564.	0.	3706.	3970.	0.	** 1400.	162.	.93	31.	60.4	F	14.5	2.9
14	2	2600.	0.	336.	3868.	0.	336.	3706.	3970.	0.	** 2600.	162.	.93	31.	60.4	F	21.7	2.9
15	2	2010.	0.	0.	3532.	0.	0.	3370.	3900.	0.	** 2010.	162.	.86	24.	70.4	F	13.8	3.6
16	2	6120.	480.	464.	4012.	480.	445.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3548.	0.	0.	3405.	4300.	0.	0.	0.	.79	61.	27.8	D	18.5	3.9
18	3	930.	364.	0.	3912.	364.	0.	3769.	6099.	1.	0.	0.	.62	62.	20.3	C	20.6	4.4
19	3	5330.	112.	440.	4024.	112.	424.	3881.	6078.	22.	0.	0.	.64	62.	20.9	C	20.6	4.4
20	2	2830.	0.	0.	3584.	0.	0.	3456.	3800.	0.	0.	0.	.91	57.	30.4	D	22.5	2.4
21	3	1660.	516.	600.	4100.	516.	581.	3972.	5858.	242.	0.	0.	.68	61.	21.7	C	21.1	3.8
22	2	2270.	0.	0.	3500.	0.	0.	3391.	4400.	0.	0.	0.	.77	61.	27.6	D	20.8	4.0
23	2	3040.	140.	368.	3640.	140.	357.	3531.	4100.	0.	0.	0.	.86	59.	29.7	D	21.8	3.0
24	2	2190.	0.	0.	3272.	0.	0.	3174.	4200.	0.	0.	0.	.76	64.	24.8	C	19.6	5.6
25	3	2400.	132.	3404.	3404.	132.	3306.	3306.	6150.	0.	0.	0.	.54	65.	17.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 32.	47.2		17.8	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	303. VEH-HRS	357. PASS-HRS	1443. VEH-HRS	1703. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	303. VEH-HRS	357. PASS-HRS	1443. VEH-HRS	1703. PASS-HRS
TOTAL TRAV DISTANCE =	9740. VEH-MI.	11493. PASS-MI.	60453. VEH-MI.	71335. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		42. MPH.	
AVERAGE DENSITY =	47. VPMPL		37. VPMPL	
TOTAL FUEL =	546. GALLONS		3226. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		218. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2056.	0.	2056.	2056.	0.	2056.	3850.	0.	0.	0.	.53	50.	20.6	C	17.4	2.3
2	2	2070.	444.	0.	2500.	444.	0.	2500.	3838.	12.	0.	0.	.65	50.	25.0	C	15.9	2.3
3	3	2300.	1648.	492.	4148.	1648.	492.	4148.	5789.	311.	0.	0.	.72	55.	25.1	C	14.0	2.4
4	3	1020.	0.	0.	3656.	0.	0.	3656.	6100.	0.	0.	0.	.60	62.	19.7	C	19.9	4.8
5	3	710.	56.	0.	3712.	56.	0.	3712.	6100.	0.	0.	0.	.61	62.	20.0	C	16.1	4.4
6	3	3820.	228.	1172.	3940.	228.	1172.	3878.	6126.	24.	* 2979.	62.	.63	15.	88.3	F	12.7	6.1
7	2	1220.	0.	0.	2768.	0.	0.	2706.	4400.	0.	** 1220.	62.	.62	11.	124.2	F	12.1	6.1
8	2	4810.	548.	728.	3316.	548.	728.	3254.	4600.	0.	** 4810.	62.	.71	14.	112.5	F	15.9	5.4
9	2	1370.	0.	0.	2588.	0.	0.	2526.	4000.	0.	** 1370.	62.	.63	11.	110.2	F	15.8	6.0
10	2	660.	304.	0.	2892.	304.	0.	2830.	4375.	25.	** 660.	62.	.65	12.	117.8	F	16.3	5.9
11	3	790.	1056.	744.	3948.	1056.	744.	3886.	5525.	575.	** 790.	62.	.70	14.	90.7	F	21.9	5.4
12	2	1460.	0.	0.	3204.	0.	0.	3142.	4100.	0.	** 1460.	62.	.77	17.	90.4	F	17.3	4.8
13	2	1400.	584.	0.	3788.	584.	0.	3726.	3970.	0.	** 1400.	62.	.94	31.	59.6	F	14.6	2.8
14	2	2600.	0.	336.	3788.	0.	336.	3726.	3970.	0.	** 2600.	62.	.94	31.	59.6	F	21.8	2.8
15	2	2010.	0.	0.	3452.	0.	0.	3390.	3900.	0.	** 2010.	62.	.87	24.	69.6	F	13.9	3.5
16	2	6120.	460.	468.	3912.	460.	461.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3444.	0.	0.	3389.	4300.	0.	0.	0.	.79	61.	27.7	D	18.5	3.9
18	3	930.	404.	0.	3848.	404.	0.	3793.	6099.	1.	0.	0.	.62	62.	20.4	C	20.6	4.4
19	3	5330.	124.	468.	3972.	124.	462.	3917.	6073.	27.	0.	0.	.65	62.	21.1	C	20.6	4.4
20	2	2830.	0.	0.	3504.	0.	0.	3456.	3800.	0.	0.	0.	.91	57.	30.4	D	22.5	2.4
21	3	1660.	492.	628.	3996.	492.	620.	3948.	5871.	229.	0.	0.	.67	61.	21.6	C	21.1	3.8
22	2	2270.	0.	0.	3368.	0.	0.	3327.	4400.	0.	0.	0.	.76	62.	27.0	D	20.8	4.1
23	2	3040.	116.	360.	3484.	116.	356.	3443.	4100.	0.	0.	0.	.84	60.	28.7	D	21.6	3.2
24	2	2190.	0.	0.	3124.	0.	0.	3088.	4200.	0.	0.	0.	.74	64.	24.0	C	19.4	5.8
25	3	2400.	108.	3232.	3232.	108.	3196.	3196.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 32.	47.4		17.8	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	305. VEH-HRS	360. PASS-HRS	1748. VEH-HRS	2063. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	305. VEH-HRS	360. PASS-HRS	1748. VEH-HRS	2063. PASS-HRS
TOTAL TRAV DISTANCE =	9637. VEH-MI.	11371. PASS-MI.	70090. VEH-MI.	82706. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		40. MPH.	
AVERAGE DENSITY =	47. VPMPL		39. VPMPL	
TOTAL FUEL =	542. GALLONS		3768. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		256. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3060.	0.	3060.	3060.	0.	3060.	3850.	0.	0.	0.	.79	50.	30.6	D	17.4	2.3
2	2	2070.	368.	0.	3428.	368.	0.	3428.	3830.	20.	0.	0.	.89	50.	34.3	D	15.9	2.3
3	3	2300.	1272.	552.	4700.	1272.	552.	4700.	5674.	426.	0.	0.	.83	55.	28.5	D	14.0	2.4
4	3	1020.	0.	0.	4148.	0.	0.	3808.	6100.	0.	* 154.	340.	.62	60.	21.1	F	19.8	4.8
5	3	710.	28.	0.	4176.	28.	0.	3836.	6100.	0.	** 710.	340.	.63	27.	47.2	F	14.3	4.8
6	3	3820.	176.	1244.	4352.	176.	1244.	4012.	6125.	25.	** 3820.	340.	.66	13.	103.6	F	12.2	6.3
7	2	1220.	0.	0.	3108.	0.	0.	2768.	4400.	0.	** 1220.	340.	.63	11.	121.7	F	12.3	6.0
8	2	4810.	468.	772.	3576.	468.	772.	3236.	4600.	0.	** 4810.	340.	.70	14.	113.2	F	15.8	5.4
9	2	1370.	0.	0.	2804.	0.	0.	2464.	4000.	0.	** 1370.	340.	.62	11.	112.7	F	15.4	6.1
10	2	660.	304.	0.	3108.	304.	0.	2768.	4375.	25.	** 660.	340.	.63	12.	120.3	F	15.9	6.0
11	3	790.	1120.	784.	4228.	1120.	784.	3888.	5493.	607.	** 790.	340.	.71	14.	89.5	F	22.2	5.4
12	2	1460.	0.	0.	3444.	0.	0.	3104.	4100.	0.	** 1460.	340.	.76	17.	91.9	F	17.1	4.9
13	2	1400.	624.	0.	4068.	624.	0.	3728.	3970.	0.	** 1400.	242.	.94	31.	59.5	F	14.6	2.8
14	2	2600.	0.	408.	4068.	0.	398.	3727.	3970.	0.	** 2600.	242.	.94	31.	59.5	F	21.8	2.8
15	2	2010.	0.	0.	3660.	0.	0.	3330.	3900.	0.	** 2010.	242.	.85	23.	72.0	F	13.6	3.7
16	2	6120.	520.	540.	4180.	520.	497.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3640.	0.	0.	3353.	4300.	0.	0.	0.	.78	61.	27.3	D	18.4	4.0
18	3	930.	444.	0.	4084.	444.	0.	3797.	6099.	1.	0.	0.	.62	62.	20.4	C	20.6	4.4
19	3	5330.	168.	580.	4252.	168.	541.	3965.	6064.	36.	0.	0.	.65	62.	21.3	C	20.6	4.4
20	2	2830.	0.	0.	3672.	0.	0.	3424.	3800.	0.	0.	0.	.90	57.	29.9	D	22.4	2.5
21	3	1660.	480.	668.	4152.	480.	628.	3904.	5858.	242.	0.	0.	.67	61.	21.3	C	21.1	3.8
22	2	2270.	0.	0.	3484.	0.	0.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	20.7	4.2
23	2	3040.	108.	388.	3592.	108.	366.	3384.	4100.	0.	0.	0.	.83	60.	28.0	D	21.4	3.4
24	2	2190.	0.	0.	3204.	0.	0.	3018.	4200.	0.	0.	0.	.72	65.	23.4	C	19.4	5.9
25	3	2400.	128.	3332.	3332.	128.	3146.	3146.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 31.	50.3		17.5	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	327. VEH-HRS	386. PASS-HRS	2075. VEH-HRS	2449. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	327. VEH-HRS	386. PASS-HRS	2075. VEH-HRS	2449. PASS-HRS
TOTAL TRAV DISTANCE =	10108. VEH-MI.	11928. PASS-MI.	80198. VEH-MI.	94634. PASS-MI.
AVERAGE SYSTEM SPEED =	31. MPH.		39. MPH.	
AVERAGE DENSITY =	50. VPMPL		40. VPMPL	
TOTAL FUEL =	576. GALLONS		4344. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		296. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2804.	0.	2804.	2804.	0.	2804.	3850.	0.	0.	0.	.73	50.	28.0	D	17.4	2.3
2	2	2070.	364.	0.	3168.	364.	0.	3168.	3831.	19.	0.	0.	.83	50.	31.7	D	15.9	2.3
3	3	2300.	1240.	536.	4408.	1240.	536.	4122.	5714.	386.	* 631.	286.	.72	50.	27.7	F	13.8	2.6
4	3	1020.	0.	0.	3872.	0.	0.	3586.	6100.	0.	** 1020.	286.	.59	13.	88.9	F	14.1	6.3
5	3	710.	72.	0.	3944.	72.	0.	3658.	6100.	0.	** 710.	286.	.60	10.	117.3	F	11.0	6.2
6	3	3820.	172.	1188.	4116.	172.	1188.	3830.	6132.	18.	** 3820.	286.	.62	11.	113.8	F	11.6	6.6
7	2	1220.	0.	0.	2928.	0.	0.	2642.	4400.	0.	** 1220.	286.	.60	10.	126.8	F	11.9	6.2
8	2	4810.	440.	768.	3368.	440.	768.	3082.	4600.	0.	** 4810.	286.	.67	13.	119.5	F	14.8	5.7
9	2	1370.	0.	0.	2600.	0.	0.	2314.	4000.	0.	** 1370.	286.	.58	10.	118.9	F	14.1	6.4
10	2	660.	268.	0.	2868.	268.	0.	2582.	4378.	22.	** 660.	286.	.59	10.	128.1	F	14.7	6.3
11	3	790.	1052.	688.	3920.	1052.	688.	3634.	5570.	530.	** 790.	286.	.65	12.	99.1	F	19.2	5.8
12	2	1460.	0.	0.	3232.	0.	0.	2946.	4100.	0.	** 1460.	286.	.72	15.	98.4	F	16.3	5.3
13	2	1400.	660.	0.	3892.	660.	0.	3606.	3970.	0.	** 1400.	286.	.91	28.	64.5	F	14.0	3.1
14	2	2600.	0.	400.	3892.	0.	400.	3606.	3970.	0.	** 2600.	286.	.91	28.	64.5	F	20.9	3.1
15	2	2010.	0.	0.	3492.	0.	0.	3206.	3900.	0.	** 2010.	286.	.82	21.	77.1	F	13.1	4.1
16	2	6120.	644.	544.	4136.	644.	506.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3592.	0.	0.	3344.	4300.	0.	0.	0.	.78	61.	27.2	D	18.4	4.0
18	3	930.	476.	0.	4068.	476.	0.	3820.	6098.	2.	0.	0.	.63	62.	20.5	C	20.6	4.4
19	3	5330.	204.	608.	4272.	204.	573.	4024.	6062.	38.	0.	0.	.66	62.	21.6	C	20.6	4.4
20	2	2830.	0.	0.	3664.	0.	0.	3451.	3800.	0.	0.	0.	.91	57.	30.3	D	22.5	2.5
21	3	1660.	452.	660.	4116.	452.	626.	3903.	5891.	209.	0.	0.	.66	61.	21.3	C	21.1	3.8
22	2	2270.	0.	0.	3456.	0.	0.	3277.	4400.	0.	0.	0.	.74	62.	26.5	D	20.7	4.2
23	2	3040.	128.	360.	3584.	128.	342.	3405.	4100.	0.	0.	0.	.83	60.	28.2	D	21.5	3.4
24	2	2190.	0.	0.	3224.	0.	0.	3063.	4200.	0.	0.	0.	.73	64.	23.8	C	19.4	5.8
25	3	2400.	132.	3356.	3356.	132.	3195.	3195.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 27. 54.2 17.1 4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	357. VEH-HRS	421. PASS-HRS	2432. VEH-HRS	2870. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	357. VEH-HRS	421. PASS-HRS	2432. VEH-HRS	2870. PASS-HRS
TOTAL TRAV DISTANCE =	9819. VEH-MI.	11587. PASS-MI.	90017. VEH-MI.	106221. PASS-MI.
AVERAGE SYSTEM SPEED =	27. MPH.		37. MPH.	
AVERAGE DENSITY =	54. VPMPL		42. VPMPL	
TOTAL FUEL =	575. GALLONS		4920. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		335. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3060.	0.	3060.	3060.	0.	3060.	3850.	0.	0.	0.	.79	50.	30.6	D	17.4	2.3
2	2	2070.	316.	0.	3376.	316.	0.	3022.	3832.	18.	* 1882.	354.	.79	40.	38.2	F	15.0	2.7
3	3	2300.	1232.	560.	4608.	1232.	560.	4254.	5668.	432.	** 2300.	354.	.75	20.	71.4	F	11.5	4.7
4	3	1020.	0.	0.	4048.	0.	0.	3694.	6100.	0.	** 1020.	354.	.61	11.	116.4	F	12.8	6.8
5	3	710.	56.	0.	4104.	56.	0.	3750.	6100.	0.	** 710.	354.	.61	11.	114.8	F	11.1	6.1
6	3	3820.	168.	1200.	4272.	168.	1200.	3918.	6132.	18.	** 3820.	354.	.64	12.	111.4	F	11.7	6.5
7	2	1220.	0.	0.	3072.	0.	0.	2718.	4400.	0.	** 1220.	354.	.62	11.	123.7	F	12.2	6.1
8	2	4810.	352.	768.	3424.	352.	768.	3070.	4600.	0.	** 4810.	354.	.67	13.	120.0	F	14.7	5.7
9	2	1370.	0.	0.	2656.	0.	0.	2302.	4000.	0.	** 1370.	354.	.58	10.	119.4	F	14.0	6.5
10	2	660.	256.	0.	2912.	256.	0.	2558.	4380.	20.	** 660.	354.	.58	10.	129.2	F	14.4	6.3
11	3	790.	1040.	684.	3952.	1040.	684.	3598.	5572.	528.	** 790.	354.	.65	12.	100.2	F	18.9	5.9
12	2	1460.	0.	0.	3268.	0.	0.	2914.	4100.	0.	** 1460.	354.	.71	15.	99.7	F	16.0	5.3
13	2	1400.	624.	0.	3892.	624.	0.	3538.	3970.	0.	** 1400.	354.	.89	26.	67.3	F	13.7	3.3
14	2	2600.	0.	400.	3892.	0.	400.	3538.	3970.	0.	** 2600.	354.	.89	26.	67.3	F	20.5	3.3
15	2	2010.	0.	0.	3492.	0.	0.	3138.	3900.	0.	** 2010.	354.	.80	20.	79.9	F	12.8	4.3
16	2	6120.	712.	524.	4204.	712.	480.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3680.	0.	0.	3370.	4300.	0.	0.	0.	.78	61.	27.5	D	18.5	3.9
18	3	930.	492.	0.	4172.	492.	0.	3862.	6098.	2.	0.	0.	.63	62.	20.8	C	20.6	4.4
19	3	5330.	204.	596.	4376.	204.	554.	4066.	6059.	41.	0.	0.	.67	62.	21.9	C	20.6	4.4
20	2	2830.	0.	0.	3780.	0.	0.	3512.	3800.	0.	0.	0.	.92	56.	31.2	D	22.8	2.3
21	3	1660.	436.	688.	4216.	436.	644.	3948.	5882.	218.	0.	0.	.67	61.	21.6	C	21.1	3.8
22	2	2270.	0.	0.	3528.	0.	0.	3304.	4400.	0.	0.	0.	.75	62.	26.8	D	20.7	4.2
23	2	3040.	148.	364.	3676.	148.	342.	3452.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
24	2	2190.	0.	0.	3312.	0.	0.	3110.	4200.	0.	0.	0.	.74	64.	24.2	C	19.5	5.7
25	3	2400.	120.	3432.	3432.	120.	3230.	3230.	6150.	0.	0.	0.	.53	65.	16.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 26.	57.1		16.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	380. VEH-HRS	448. PASS-HRS	2812. VEH-HRS	3318. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	380. VEH-HRS	448. PASS-HRS	2812. VEH-HRS	3318. PASS-HRS
TOTAL TRAV DISTANCE =	9945. VEH-MI.	11735. PASS-MI.	99963. VEH-MI.	117956. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		36. MPH.	
AVERAGE DENSITY =	57. VPMPL		43. VPMPL	
TOTAL FUEL =	592. GALLONS		5512. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		377. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2668.	0.	2668.	2668.	0.	2458.	3850.	0.	* 1632.	210.	.64	37.	33.5	F	16.3	2.8
2	2	2070.	396.	0.	3064.	396.	0.	2854.	3831.	19.	** 2070.	210.	.75	16.	87.6	F	11.3	5.4
3	3	2300.	1228.	532.	4292.	1228.	532.	4082.	5718.	382.	** 2300.	210.	.71	15.	92.2	F	10.7	5.8
4	3	1020.	0.	0.	3760.	0.	0.	3550.	6100.	0.	** 1020.	210.	.58	10.	120.3	F	12.3	7.0
5	3	710.	72.	0.	3832.	72.	0.	3622.	6100.	0.	** 710.	210.	.59	10.	118.3	F	10.9	6.2
6	3	3820.	168.	1144.	4000.	168.	1144.	3790.	6138.	12.	** 3820.	210.	.62	11.	115.1	F	11.5	6.7
7	2	1220.	0.	0.	2856.	0.	0.	2646.	4400.	0.	** 1220.	210.	.60	10.	126.7	F	12.0	6.2
8	2	4810.	384.	732.	3240.	384.	732.	3030.	4600.	0.	** 4810.	210.	.66	12.	121.6	F	14.5	5.8
9	2	1370.	0.	0.	2508.	0.	0.	2298.	4000.	0.	** 1370.	210.	.57	10.	119.5	F	13.9	6.5
10	2	660.	240.	0.	2748.	240.	0.	2538.	4380.	20.	** 660.	210.	.58	10.	130.0	F	14.2	6.4
11	3	790.	1040.	672.	3788.	1040.	672.	3578.	5588.	512.	** 790.	210.	.64	12.	101.3	F	18.7	5.9
12	2	1460.	0.	0.	3116.	0.	0.	2906.	4100.	0.	** 1460.	210.	.71	15.	100.0	F	15.9	5.4
13	2	1400.	636.	0.	3752.	636.	0.	3542.	3970.	0.	** 1400.	210.	.89	26.	67.1	F	13.7	3.3
14	2	2600.	0.	372.	3752.	0.	372.	3542.	3970.	0.	** 2600.	210.	.89	26.	67.1	F	20.5	3.3
15	2	2010.	0.	0.	3380.	0.	0.	3170.	3900.	0.	** 2010.	210.	.81	20.	78.6	F	13.0	4.2
16	2	6120.	680.	460.	4060.	680.	436.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3600.	0.	0.	3414.	4300.	0.	0.	0.	.79	61.	27.9	D	18.5	3.8
18	3	930.	544.	0.	4144.	544.	0.	3958.	6098.	2.	0.	0.	.65	62.	21.3	C	20.6	4.4
19	3	5330.	184.	544.	4328.	184.	521.	4142.	6059.	41.	0.	0.	.68	62.	22.3	C	20.6	4.4
20	2	2830.	0.	0.	3784.	0.	0.	3621.	3800.	0.	0.	0.	.95	55.	33.2	D	23.2	2.0
21	3	1660.	476.	652.	4260.	476.	627.	4097.	5858.	242.	0.	0.	.70	61.	22.4	C	21.1	3.8
22	2	2270.	0.	0.	3608.	0.	0.	3470.	4400.	0.	0.	0.	.79	61.	28.4	D	21.0	3.9
23	2	3040.	124.	356.	3732.	124.	343.	3594.	4100.	0.	0.	0.	.88	59.	30.6	D	22.0	2.9
24	2	2190.	0.	0.	3376.	0.	0.	3251.	4200.	0.	0.	0.	.77	64.	25.5	C	19.7	5.4
25	3	2400.	76.	3452.	3452.	76.	3327.	3327.	6150.	0.	0.	0.	.54	65.	17.1	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 24. 60.8 16.5 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	405. VEH-HRS	477. PASS-HRS	3216. VEH-HRS	3795. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	405. VEH-HRS	477. PASS-HRS	3216. VEH-HRS	3795. PASS-HRS
TOTAL TRAV DISTANCE =	9818. VEH-MI.	11586. PASS-MI.	109781. VEH-MI.	129542. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		34. MPH.	
AVERAGE DENSITY =	61. VPMPL		45. VPMPL	
TOTAL FUEL =	595. GALLONS		6107. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		419. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2916.	0.	2916.	2916.	0.	2862.	3850.	0.	* 2233.	54.	.74	31.	46.7	F	15.3	3.3
2	2	2070.	324.	0.	3240.	324.	0.	3186.	3833.	17.	** 2070.	54.	.83	21.	74.3	F	12.1	4.4
3	3	2300.	1068.	548.	4308.	1068.	548.	4254.	5710.	390.	** 2300.	54.	.74	16.	87.2	F	10.9	5.5
4	3	1020.	0.	0.	3760.	0.	0.	3706.	6100.	0.	** 1020.	54.	.61	11.	116.0	F	12.9	6.7
5	3	710.	72.	0.	3832.	72.	0.	3778.	6100.	0.	** 710.	54.	.62	11.	114.1	F	11.2	6.1
6	3	3820.	168.	1200.	4000.	168.	1200.	3946.	6133.	17.	** 3820.	54.	.64	12.	110.7	F	11.8	6.5
7	2	1220.	0.	0.	2800.	0.	0.	2746.	4400.	0.	** 1220.	54.	.62	11.	122.6	F	12.2	6.0
8	2	4810.	472.	752.	3272.	472.	752.	3218.	4600.	0.	** 4810.	54.	.70	14.	114.0	F	15.6	5.4
9	2	1370.	0.	0.	2520.	0.	0.	2466.	4000.	0.	** 1370.	54.	.62	11.	112.7	F	15.4	6.1
10	2	660.	200.	0.	2720.	200.	0.	2666.	4382.	18.	** 660.	54.	.61	11.	124.9	F	15.1	6.2
11	3	790.	1056.	724.	3776.	1056.	724.	3722.	5558.	542.	** 790.	54.	.67	13.	96.3	F	20.0	5.7
12	2	1460.	0.	0.	3052.	0.	0.	2998.	4100.	0.	** 1460.	54.	.73	16.	96.3	F	16.5	5.1
13	2	1400.	632.	0.	3684.	632.	0.	3630.	3970.	0.	** 1400.	54.	.91	29.	63.5	F	14.2	3.1
14	2	2600.	0.	440.	3684.	0.	440.	3630.	3970.	0.	** 2600.	54.	.91	29.	63.5	F	21.1	3.1
15	2	2010.	0.	0.	3244.	0.	0.	3190.	3900.	0.	** 2010.	54.	.82	21.	77.8	F	13.0	4.1
16	2	6120.	660.	528.	3904.	660.	521.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3376.	0.	0.	3329.	4300.	0.	0.	0.	.77	61.	27.1	D	18.4	4.0
18	3	930.	560.	0.	3936.	560.	0.	3889.	6099.	1.	0.	0.	.64	62.	20.9	C	20.6	4.4
19	3	5330.	188.	584.	4124.	188.	577.	4077.	6059.	41.	0.	0.	.67	62.	21.9	C	20.6	4.4
20	2	2830.	0.	0.	3540.	0.	0.	3500.	3800.	0.	0.	0.	.92	56.	31.0	D	22.7	2.3
21	3	1660.	512.	748.	4052.	512.	741.	4012.	5809.	291.	0.	0.	.69	61.	21.9	C	21.1	3.8
22	2	2270.	0.	0.	3304.	0.	0.	3271.	4400.	0.	0.	0.	.74	62.	26.5	D	20.7	4.2
23	2	3040.	156.	340.	3460.	156.	337.	3427.	4100.	0.	0.	0.	.84	60.	28.5	D	21.5	3.3
24	2	2190.	0.	0.	3120.	0.	0.	3091.	4200.	0.	0.	0.	.74	64.	24.0	C	19.4	5.8
25	3	2400.	120.	3240.	3240.	120.	3211.	3211.	6150.	0.	0.	0.	.52	65.	16.5	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 25.		59.4	16.6	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	393. VEH-HRS	464. PASS-HRS	3610. VEH-HRS	4260. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	393. VEH-HRS	464. PASS-HRS	3610. VEH-HRS	4260. PASS-HRS
TOTAL TRAV DISTANCE =	9958. VEH-MI.	11751. PASS-MI.	119739. VEH-MI.	141293. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		33. MPH.	
AVERAGE DENSITY =	59. VPMPL		46. VPMPL	
TOTAL FUEL =	600. GALLONS		6707. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		462. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1988.	0.	1988.	1988.	0.	1988.	3850.	0.	0.	0.	.52	33.	30.1	D	15.9	3.0
2	2	2070.	468.	0.	2456.	468.	0.	2870.	3837.	13.	* 829.	-414.	.75	17.	83.1	F	11.6	5.2
3	3	2300.	1260.	472.	3716.	1260.	472.	4130.	5789.	311.	** 2300.	-414.	.71	15.	93.4	F	10.7	5.8
4	3	1020.	0.	0.	3244.	0.	0.	3658.	6100.	0.	** 1020.	-414.	.60	10.	117.3	F	12.7	6.8
5	3	710.	80.	0.	3324.	80.	0.	3738.	6100.	0.	** 710.	-414.	.61	11.	115.2	F	11.1	6.1
6	3	3820.	180.	1196.	3504.	180.	1196.	3918.	6132.	18.	** 3820.	-414.	.64	12.	111.4	F	11.7	6.5
7	2	1220.	0.	0.	2308.	0.	0.	2722.	4400.	0.	** 1220.	-414.	.62	11.	123.5	F	12.2	6.1
8	2	4810.	392.	736.	2700.	392.	736.	3114.	4600.	0.	** 4810.	-414.	.68	13.	118.2	F	15.0	5.6
9	2	1370.	0.	0.	1964.	0.	0.	2378.	4000.	0.	** 1370.	-414.	.59	10.	116.3	F	14.8	6.2
10	2	660.	276.	0.	2240.	276.	0.	2654.	4373.	27.	** 660.	-414.	.61	11.	124.9	F	15.1	6.2
11	3	790.	1076.	716.	3316.	1076.	716.	3730.	5583.	517.	** 790.	-414.	.67	13.	97.0	F	19.9	5.7
12	2	1460.	0.	0.	2600.	0.	0.	3014.	4100.	0.	** 1460.	-414.	.74	16.	95.6	F	16.6	5.1
13	2	1400.	680.	0.	3280.	680.	0.	3694.	3970.	0.	** 1400.	-414.	.93	30.	60.9	F	14.5	2.9
14	2	2600.	0.	504.	3280.	0.	504.	3694.	3970.	0.	** 2600.	-414.	.93	30.	60.9	F	21.6	2.9
15	2	2010.	0.	0.	2776.	0.	0.	3190.	3900.	0.	** 2010.	-414.	.82	21.	77.8	F	13.0	4.1
16	2	6120.	660.	520.	3436.	660.	583.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2916.	0.	0.	3267.	4300.	0.	0.	0.	.76	62.	26.5	D	18.3	4.1
18	3	930.	560.	0.	3476.	560.	0.	3827.	6100.	0.	0.	0.	.63	62.	20.6	C	20.6	4.4
19	3	5330.	212.	576.	3688.	212.	631.	4039.	6074.	26.	0.	0.	.67	62.	21.7	C	20.6	4.4
20	2	2830.	0.	0.	3112.	0.	0.	3408.	3800.	0.	0.	0.	.90	57.	29.7	D	22.4	2.6
21	3	1660.	536.	744.	3648.	536.	805.	3944.	5800.	300.	0.	0.	.68	61.	21.6	C	21.1	3.8
22	2	2270.	0.	0.	2904.	0.	0.	3140.	4400.	0.	0.	0.	.71	62.	25.3	C	20.6	4.3
23	2	3040.	160.	360.	3064.	160.	387.	3300.	4100.	0.	0.	0.	.80	61.	27.1	D	21.1	3.7
24	2	2190.	0.	0.	2704.	0.	0.	2912.	4200.	0.	0.	0.	.69	65.	22.5	C	19.3	6.0
25	3	2400.	100.	2804.	2804.	100.	3012.	3012.	6150.	0.	0.	0.	.49	65.	15.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 25.	58.2		16.5	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	387. VEH-HRS	457. PASS-HRS	3997. VEH-HRS	4716. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	387. VEH-HRS	457. PASS-HRS	3997. VEH-HRS	4716. PASS-HRS
TOTAL TRAV DISTANCE =	9521. VEH-MI.	11234. PASS-MI.	129260. VEH-MI.	152527. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		32. MPH.	
AVERAGE DENSITY =	58. VPMPL		47. VPMPL	
TOTAL FUEL =	576. GALLONS		7283. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		503. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2460.	0.	2460.	2460.	0.	2460.	3850.	0.	0.	0.	.64	50.	24.6	C	17.4	2.3
2	2	2070.	316.	0.	2776.	316.	0.	2776.	3839.	11.	0.	0.	.72	47.	29.4	D	15.7	2.4
3	3	2300.	1172.	392.	3948.	1172.	392.	4294.	5838.	262.	* 430.	-346.	.74	20.	70.3	F	11.7	4.6
4	3	1020.	0.	0.	3556.	0.	0.	3902.	6100.	0.	** 1020.	-346.	.64	12.	110.7	F	13.5	6.5
5	3	710.	72.	0.	3628.	72.	0.	3974.	6100.	0.	** 710.	-346.	.65	12.	108.7	F	11.6	5.8
6	3	3820.	172.	1228.	3800.	172.	1228.	4146.	6127.	23.	** 3820.	-346.	.68	13.	105.0	F	12.3	6.2
7	2	1220.	0.	0.	2572.	0.	0.	2918.	4400.	0.	** 1220.	-346.	.66	13.	115.5	F	12.8	5.8
8	2	4810.	300.	768.	2872.	300.	768.	3218.	4600.	0.	** 4810.	-346.	.70	14.	114.0	F	15.6	5.4
9	2	1370.	0.	0.	2104.	0.	0.	2450.	4000.	0.	** 1370.	-346.	.61	11.	113.3	F	15.3	6.1
10	2	660.	352.	0.	2456.	352.	0.	2802.	4367.	33.	** 660.	-346.	.64	12.	118.5	F	16.1	5.9
11	3	790.	1024.	716.	3480.	1024.	716.	3826.	5557.	543.	** 790.	-346.	.69	14.	93.4	F	21.0	5.5
12	2	1460.	0.	0.	2764.	0.	0.	3110.	4100.	0.	** 1460.	-346.	.76	17.	91.7	F	17.1	4.8
13	2	1400.	632.	0.	3396.	632.	0.	3742.	3970.	0.	** 1400.	-346.	.94	32.	58.9	F	14.6	2.8
14	2	2600.	0.	520.	3396.	0.	520.	3742.	3970.	0.	** 2600.	-346.	.94	32.	58.9	F	21.9	2.8
15	2	2010.	0.	0.	2876.	0.	0.	3222.	3900.	0.	** 2010.	-346.	.83	21.	76.4	F	13.1	4.0
16	2	6120.	628.	532.	3504.	628.	584.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2972.	0.	0.	3266.	4300.	0.	0.	0.	.76	62.	26.5	D	18.3	4.1
18	3	930.	536.	0.	3508.	536.	0.	3802.	6100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
19	3	5330.	208.	588.	3716.	208.	635.	4010.	6071.	29.	0.	0.	.66	62.	21.6	C	20.6	4.4
20	2	2830.	0.	0.	3128.	0.	0.	3375.	3800.	0.	0.	0.	.89	58.	29.2	D	22.3	2.7
21	3	1660.	484.	740.	3612.	484.	791.	3859.	5850.	250.	0.	0.	.66	61.	21.1	C	21.1	3.8
22	2	2270.	0.	0.	2872.	0.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	20.6	4.4
23	2	3040.	160.	372.	3032.	160.	396.	3228.	4100.	0.	0.	0.	.79	61.	26.4	D	21.0	3.9
24	2	2190.	0.	0.	2660.	0.	0.	2832.	4200.	0.	0.	0.	.67	65.	21.8	C	19.2	6.1
25	3	2400.	92.	2752.	2752.	92.	2924.	2924.	6150.	0.	0.	0.	.48	65.	15.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 28.	53.2		17.1	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	353. VEH-HRS	417. PASS-HRS	4350. VEH-HRS	5133. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	353. VEH-HRS	417. PASS-HRS	4350. VEH-HRS	5133. PASS-HRS
TOTAL TRAV DISTANCE =	9718. VEH-MI.	11467. PASS-MI.	138978. VEH-MI.	163994. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		32. MPH.	
AVERAGE DENSITY =	53. VPMPL		47. VPMPL	
TOTAL FUEL =	568. GALLONS		7852. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		544. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2256.	0.	2256.	2256.	0.	2256.	3850.	0.	0.	0.	.59	50.	22.6	C	17.4	2.3
2	2	2070.	304.	0.	2560.	304.	0.	2560.	3840.	10.	0.	0.	.67	50.	25.6	C	15.9	2.3
3	3	2300.	1156.	408.	3716.	1156.	408.	3716.	5837.	263.	0.	0.	.64	52.	24.0	C	13.9	2.5
4	3	1020.	0.	0.	3308.	0.	0.	3308.	6100.	0.	0.	0.	.54	16.	68.8	F	15.0	6.0
5	3	710.	72.	0.	3380.	72.	0.	3722.	6100.	0.	* 539.	-342.	.61	11.	114.4	F	11.1	6.1
6	3	3820.	160.	1152.	3540.	160.	1152.	3882.	6145.	5.	** 3820.	-342.	.63	11.	112.8	F	11.6	6.6
7	2	1220.	0.	0.	2388.	0.	0.	2730.	4400.	0.	** 1220.	-342.	.62	11.	123.2	F	12.2	6.1
8	2	4810.	380.	732.	2768.	380.	732.	3110.	4600.	0.	** 4810.	-342.	.68	13.	118.4	F	15.0	5.6
9	2	1370.	0.	0.	2036.	0.	0.	2378.	4000.	0.	** 1370.	-342.	.59	10.	116.3	F	14.8	6.2
10	2	660.	384.	0.	2420.	384.	0.	2762.	4365.	35.	** 660.	-342.	.63	12.	120.1	F	15.9	6.0
11	3	790.	972.	684.	3392.	972.	684.	3734.	5571.	529.	** 790.	-342.	.67	13.	96.4	F	20.1	5.7
12	2	1460.	0.	0.	2708.	0.	0.	3050.	4100.	0.	** 1460.	-342.	.74	16.	94.1	F	16.8	5.0
13	2	1400.	648.	0.	3356.	648.	0.	3698.	3970.	0.	** 1400.	-342.	.93	30.	60.7	F	14.5	2.9
14	2	2600.	0.	492.	3356.	0.	492.	3698.	3970.	0.	** 2600.	-342.	.93	30.	60.7	F	21.6	2.9
15	2	2010.	0.	0.	2864.	0.	0.	3206.	3900.	0.	** 2010.	-342.	.82	21.	77.1	F	13.1	4.1
16	2	6120.	644.	488.	3508.	644.	536.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3020.	0.	0.	3314.	4300.	0.	0.	0.	.77	61.	27.0	D	18.4	4.0
18	3	930.	544.	0.	3564.	544.	0.	3858.	6100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
19	3	5330.	180.	572.	3744.	180.	617.	4038.	6071.	29.	0.	0.	.67	62.	21.7	C	20.6	4.4
20	2	2830.	0.	0.	3172.	0.	0.	3421.	3800.	0.	0.	0.	.90	57.	29.8	D	22.4	2.5
21	3	1660.	420.	688.	3592.	420.	736.	3841.	5913.	187.	0.	0.	.65	61.	21.0	C	21.1	3.8
22	2	2270.	0.	0.	2904.	0.	0.	3106.	4400.	0.	0.	0.	.71	62.	25.1	C	20.6	4.3
23	2	3040.	196.	368.	3100.	196.	392.	3302.	4100.	0.	0.	0.	.81	61.	27.1	D	21.1	3.7
24	2	2190.	0.	0.	2732.	0.	0.	2910.	4200.	0.	0.	0.	.69	65.	22.4	C	19.3	6.0
25	3	2400.	112.	2844.	2844.	112.	3022.	3022.	6150.	0.	0.	0.	.49	65.	15.5	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 28.	51.9		17.2	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	342. VEH-HRS	403. PASS-HRS	4692. VEH-HRS	5537. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	342. VEH-HRS	403. PASS-HRS	4692. VEH-HRS	5537. PASS-HRS
TOTAL TRAV DISTANCE =	9502. VEH-MI.	11212. PASS-MI.	148480. VEH-MI.	175206. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		32. MPH.	
AVERAGE DENSITY =	52. VPMPL		48. VPMPL	
TOTAL FUEL =	552. GALLONS		8404. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		583. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2904.	0.	2904.	2904.	0.	2904.	3850.	0.	0.	0.	.75	50.	29.0	D	17.4	2.3
2	2	2070.	236.	0.	3140.	236.	0.	3140.	3841.	9.	0.	0.	.82	50.	31.4	D	15.9	2.3
3	3	2300.	1064.	380.	4204.	1064.	380.	4204.	5849.	251.	0.	0.	.72	55.	25.5	C	14.0	2.4
4	3	1020.	0.	0.	3824.	0.	0.	3824.	6100.	0.	0.	0.	.63	62.	20.6	C	19.9	4.8
5	3	710.	68.	0.	3892.	68.	0.	3892.	6100.	0.	0.	0.	.64	44.	29.8	D	15.5	4.5
6	3	3820.	140.	1200.	4032.	140.	1200.	4366.	6135.	15.	* 2489.	-334.	.71	16.	90.6	F	13.3	5.7
7	2	1220.	0.	0.	2832.	0.	0.	3166.	4400.	0.	** 1220.	-334.	.72	15.	105.4	F	14.0	5.3
8	2	4810.	268.	764.	3100.	268.	764.	3434.	4600.	0.	** 4810.	-334.	.75	16.	105.1	F	16.8	5.0
9	2	1370.	0.	0.	2336.	0.	0.	2670.	4000.	0.	** 1370.	-334.	.67	13.	104.3	F	17.1	5.7
10	2	660.	312.	0.	2648.	312.	0.	2982.	4371.	29.	** 660.	-334.	.68	13.	111.4	F	17.7	5.6
11	3	790.	996.	756.	3644.	996.	756.	3978.	5517.	583.	** 790.	-334.	.72	15.	87.9	F	23.0	5.2
12	2	1460.	0.	0.	2888.	0.	0.	3222.	4100.	0.	** 1460.	-334.	.79	18.	87.1	F	17.8	4.5
13	2	1400.	640.	0.	3528.	640.	0.	3862.	3970.	0.	** 1400.	-334.	.97	36.	54.0	F	14.8	2.5
14	2	2600.	0.	568.	3528.	0.	568.	3862.	3970.	0.	** 2600.	-334.	.97	36.	54.0	F	22.7	2.5
15	2	2010.	0.	0.	2960.	0.	0.	3294.	3900.	0.	** 2010.	-334.	.84	22.	73.5	F	13.4	3.8
16	2	6120.	556.	588.	3516.	556.	644.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2928.	0.	0.	3206.	4300.	0.	0.	0.	.75	62.	26.0	C	18.3	4.2
18	3	930.	524.	0.	3452.	524.	0.	3730.	6100.	0.	0.	0.	.61	62.	20.1	C	20.6	4.4
19	3	5330.	184.	620.	3636.	184.	667.	3914.	6074.	26.	0.	0.	.64	62.	21.0	C	20.6	4.4
20	2	2830.	0.	0.	3016.	0.	0.	3247.	3800.	0.	0.	0.	.85	59.	27.5	D	21.9	2.9
21	3	1660.	440.	756.	3456.	440.	807.	3687.	5894.	206.	0.	0.	.63	61.	20.1	C	21.1	3.8
22	2	2270.	0.	0.	2700.	0.	0.	2880.	4400.	0.	0.	0.	.65	62.	23.2	C	20.6	4.4
23	2	3040.	148.	384.	2848.	148.	408.	3028.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
24	2	2190.	0.	0.	2464.	0.	0.	2620.	4200.	0.	0.	0.	.62	65.	20.2	C	19.2	6.1
25	3	2400.	92.	2556.	2556.	92.	2712.	2712.	6150.	0.	0.	0.	.44	65.	13.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 33.		46.5	17.9	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	300. VEH-HRS	354. PASS-HRS	4992. VEH-HRS	5891. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	300. VEH-HRS	354. PASS-HRS	4992. VEH-HRS	5891. PASS-HRS
TOTAL TRAV DISTANCE =	9885. VEH-MI.	11664. PASS-MI.	158364. VEH-MI.	186870. PASS-MI.
AVERAGE SYSTEM SPEED =	33. MPH.		32. MPH.	
AVERAGE DENSITY =	46. VPMPL		48. VPMPL	
TOTAL FUEL =	554. GALLONS		8958. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		621. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2392.	0.	2392.	2392.	0.	2392.	3850.	0.	0.	0.	.62	50.	23.9	C	17.4	2.3
2	2	2070.	272.	0.	2664.	272.	0.	2664.	3841.	9.	0.	0.	.69	50.	26.6	D	15.9	2.3
3	3	2300.	1300.	332.	3964.	1300.	332.	3964.	5878.	222.	0.	0.	.67	55.	24.0	C	14.0	2.4
4	3	1020.	0.	0.	3632.	0.	0.	3632.	6100.	0.	0.	0.	.60	62.	19.5	C	19.9	4.8
5	3	710.	100.	0.	3732.	100.	0.	3732.	6100.	0.	0.	0.	.61	62.	20.1	C	16.1	4.4
6	3	3820.	172.	1140.	3904.	172.	1140.	3904.	6144.	6.	0.	0.	.64	29.	44.6	E	15.4	5.2
7	2	1220.	0.	0.	2764.	0.	0.	3218.	4400.	0.	* 1155.	-454.	.73	16.	103.3	F	14.1	5.1
8	2	4810.	328.	680.	3092.	328.	680.	3546.	4600.	0.	** 4810.	-454.	.77	18.	100.6	F	17.4	4.7
9	2	1370.	0.	0.	2412.	0.	0.	2866.	4000.	0.	** 1370.	-454.	.72	15.	96.3	F	19.4	5.3
10	2	660.	204.	0.	2616.	204.	0.	3070.	4380.	20.	** 660.	-454.	.70	14.	108.3	F	18.6	5.4
11	3	790.	1012.	764.	3628.	1012.	764.	4082.	5524.	576.	** 790.	-454.	.74	16.	85.3	F	23.9	5.1
12	2	1460.	0.	0.	2864.	0.	0.	3318.	4100.	0.	** 1460.	-454.	.81	20.	83.2	F	18.5	4.2
13	2	1400.	612.	0.	3476.	612.	0.	3930.	3970.	0.	** 1400.	-454.	.99	38.	51.3	F	14.8	2.3
14	2	2600.	0.	612.	3476.	0.	612.	3930.	3970.	0.	** 2600.	-454.	.99	38.	51.3	F	23.0	2.3
15	2	2010.	0.	0.	2864.	0.	0.	3318.	3900.	0.	** 2010.	-454.	.85	23.	72.5	F	13.5	3.7
16	2	6120.	532.	628.	3396.	532.	712.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2768.	0.	0.	3138.	4300.	0.	0.	0.	.73	62.	25.4	C	18.2	4.3
18	3	930.	464.	0.	3232.	464.	0.	3602.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
19	3	5330.	172.	576.	3404.	172.	639.	3774.	6083.	17.	0.	0.	.62	62.	20.3	C	20.6	4.4
20	2	2830.	0.	0.	2828.	0.	0.	3136.	3800.	0.	0.	0.	.83	61.	25.7	C	21.1	3.8
21	3	1660.	456.	724.	3284.	456.	792.	3592.	5886.	214.	0.	0.	.61	61.	19.6	C	21.1	3.8
22	2	2270.	0.	0.	2560.	0.	0.	2800.	4400.	0.	0.	0.	.64	62.	22.6	C	20.6	4.4
23	2	3040.	132.	360.	2692.	132.	392.	2932.	4100.	0.	0.	0.	.72	62.	23.6	C	20.6	4.4
24	2	2190.	0.	0.	2332.	0.	0.	2539.	4200.	0.	0.	0.	.60	65.	19.5	C	19.2	6.1
25	3	2400.	76.	2408.	2408.	76.	2615.	2615.	6150.	0.	0.	0.	.43	65.	13.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 36.	41.4		18.3	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	263. VEH-HRS	310. PASS-HRS	5255. VEH-HRS	6201. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	263. VEH-HRS	310. PASS-HRS	5255. VEH-HRS	6201. PASS-HRS
TOTAL TRAV DISTANCE =	9554. VEH-MI.	11274. PASS-MI.	167918. VEH-MI.	198144. PASS-MI.
AVERAGE SYSTEM SPEED =	36. MPH.		32. MPH.	
AVERAGE DENSITY =	41. VPMPL		47. VPMPL	
TOTAL FUEL =	523. GALLONS		9480. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		657. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2224.	0.	2224.	2224.	0.	2224.	3850.	0.	0.	0.	.58	50.	22.2	C	17.4	2.3
2	2	2070.	336.	0.	2560.	336.	0.	2560.	3841.	9.	0.	0.	.67	50.	25.6	C	15.9	2.3
3	3	2300.	1376.	320.	3936.	1376.	320.	3936.	5892.	208.	0.	0.	.67	55.	23.9	C	14.0	2.4
4	3	1020.	0.	0.	3616.	0.	0.	3616.	6100.	0.	0.	0.	.59	62.	19.4	C	19.9	4.8
5	3	710.	144.	0.	3760.	144.	0.	3760.	6100.	0.	0.	0.	.62	62.	20.2	C	16.1	4.4
6	3	3820.	144.	1044.	3904.	144.	1044.	3904.	6150.	0.	0.	0.	.63	62.	21.0	C	17.1	4.8
7	2	1220.	0.	0.	2860.	0.	0.	2860.	4400.	0.	0.	0.	.65	40.	35.9	E	17.2	4.5
8	2	4810.	320.	628.	3180.	320.	628.	3562.	4600.	0.	* 2647.	-382.	.77	20.	90.7	F	17.8	4.6
9	2	1370.	0.	0.	2552.	0.	0.	2934.	4000.	0.	** 1370.	-382.	.73	16.	93.5	F	20.1	5.1
10	2	660.	208.	0.	2760.	208.	0.	3142.	4382.	18.	** 660.	-382.	.72	15.	105.4	F	19.4	5.3
11	3	790.	932.	728.	3692.	932.	728.	4074.	5534.	566.	** 790.	-382.	.74	16.	85.9	F	23.8	5.1
12	2	1460.	0.	0.	2964.	0.	0.	3346.	4100.	0.	** 1460.	-382.	.82	20.	82.1	F	18.6	4.1
13	2	1400.	512.	0.	3476.	512.	0.	3858.	3970.	0.	** 1400.	-382.	.97	36.	54.2	F	14.8	2.5
14	2	2600.	0.	544.	3476.	0.	544.	3858.	3970.	0.	** 2600.	-382.	.97	36.	54.2	F	22.7	2.5
15	2	2010.	0.	0.	2932.	0.	0.	3314.	3900.	0.	** 2010.	-382.	.85	23.	72.7	F	13.5	3.8
16	2	6120.	536.	588.	3468.	536.	653.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2880.	0.	0.	3197.	4300.	0.	0.	0.	.74	62.	25.9	C	18.3	4.2
18	3	930.	424.	0.	3304.	424.	0.	3621.	6100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
19	3	5330.	148.	556.	3452.	148.	607.	3769.	6080.	20.	0.	0.	.62	62.	20.3	C	20.6	4.4
20	2	2830.	0.	0.	2896.	0.	0.	3162.	3800.	0.	0.	0.	.83	60.	26.5	D	21.7	3.1
21	3	1660.	400.	664.	3296.	400.	718.	3562.	5956.	144.	0.	0.	.60	61.	19.5	C	21.1	3.8
22	2	2270.	0.	0.	2632.	0.	0.	2845.	4400.	0.	0.	0.	.65	62.	22.9	C	20.6	4.4
23	2	3040.	168.	380.	2800.	168.	409.	3013.	4100.	0.	0.	0.	.73	62.	24.3	C	20.6	4.4
24	2	2190.	0.	0.	2420.	0.	0.	2604.	4200.	0.	0.	0.	.62	65.	20.0	C	19.2	6.1
25	3	2400.	76.	2496.	2496.	76.	2680.	2680.	6150.	0.	0.	0.	.44	65.	13.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 40.	37.8		18.6	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	236. VEH-HRS	279. PASS-HRS	5491. VEH-HRS	6480. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	236. VEH-HRS	279. PASS-HRS	5491. VEH-HRS	6480. PASS-HRS
TOTAL TRAV DISTANCE =	9468. VEH-MI.	11172. PASS-MI.	177386. VEH-MI.	209316. PASS-MI.
AVERAGE SYSTEM SPEED =	40. MPH.		32. MPH.	
AVERAGE DENSITY =	38. VPMPL		47. VPMPL	
TOTAL FUEL =	508. GALLONS		9988. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		693. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2200.	0.	2200.	2200.	0.	2200.	3850.	0.	0.	0.	.57	50.	22.0	C	17.4	2.3
2	2	2070.	348.	0.	2548.	348.	0.	2548.	3840.	10.	0.	0.	.66	50.	25.5	C	15.9	2.3
3	3	2300.	1432.	372.	3980.	1432.	372.	3980.	5853.	247.	0.	0.	.68	55.	24.1	C	14.0	2.4
4	3	1020.	0.	0.	3608.	0.	0.	3608.	6100.	0.	0.	0.	.59	62.	19.4	C	19.9	4.8
5	3	710.	160.	0.	3768.	160.	0.	3768.	6100.	0.	0.	0.	.62	62.	20.3	C	16.1	4.4
6	3	3820.	248.	728.	4016.	248.	728.	4016.	6150.	0.	0.	0.	.65	62.	21.6	C	17.1	4.8
7	2	1220.	0.	0.	3288.	0.	0.	3288.	4400.	0.	0.	0.	.75	62.	26.6	D	18.3	4.2
8	2	4810.	320.	664.	3608.	320.	664.	3608.	4600.	0.	0.	0.	.78	45.	39.9	E	20.6	3.9
9	2	1370.	0.	0.	2944.	0.	0.	3254.	4000.	0.	* 372.	-310.	.81	22.	75.5	F	24.2	4.2
10	2	660.	252.	0.	3196.	252.	0.	3506.	4378.	22.	** 660.	-310.	.80	19.	90.4	F	23.5	4.3
11	3	790.	780.	768.	3976.	780.	768.	4286.	5458.	642.	** 790.	-310.	.79	18.	77.4	F	26.9	4.5
12	2	1460.	0.	0.	3208.	0.	0.	3518.	4100.	0.	** 1460.	-310.	.86	23.	75.0	F	19.6	3.7
13	2	1400.	416.	0.	3624.	416.	0.	3934.	3970.	0.	** 1400.	-310.	.99	38.	51.1	F	14.8	2.3
14	2	2600.	0.	500.	3624.	0.	500.	3934.	3970.	0.	** 2600.	-310.	.99	38.	51.1	F	23.1	2.3
15	2	2010.	0.	0.	3124.	0.	0.	3434.	3900.	0.	** 2010.	-310.	.88	25.	67.8	F	14.1	3.4
16	2	6120.	416.	644.	3540.	416.	700.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2896.	0.	0.	3150.	4300.	0.	0.	0.	.73	62.	25.5	C	18.2	4.3
18	3	930.	340.	0.	3236.	340.	0.	3490.	6100.	0.	0.	0.	.57	62.	18.8	C	20.6	4.4
19	3	5330.	136.	588.	3372.	136.	632.	3626.	6085.	15.	0.	0.	.60	62.	19.5	C	20.6	4.4
20	2	2830.	0.	0.	2784.	0.	0.	2994.	3800.	0.	0.	0.	.79	61.	24.5	C	21.1	3.8
21	3	1660.	328.	752.	3112.	328.	802.	3322.	5976.	124.	0.	0.	.56	61.	18.2	C	21.1	3.8
22	2	2270.	0.	0.	2360.	0.	0.	2519.	4400.	0.	0.	0.	.57	62.	20.3	C	20.6	4.4
23	2	3040.	140.	436.	2500.	140.	464.	2659.	4100.	0.	0.	0.	.65	62.	21.4	C	20.6	4.4
24	2	2190.	0.	0.	2064.	0.	0.	2195.	4200.	0.	0.	0.	.52	65.	16.9	B	19.2	6.1
25	3	2400.	72.	2136.	2136.	72.	2267.	2267.	6150.	0.	0.	0.	.37	65.	11.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 46.	31.7		19.0	3.6

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 19 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	5693. VEH-HRS	6717. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	5693. VEH-HRS	6717. PASS-HRS
TOTAL TRAV DISTANCE =	9357. VEH-MI.	11041. PASS-MI.	186743. VEH-MI.	220357. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		33. MPH.	
AVERAGE DENSITY =	32. VPMPL		46. VPMPL	
TOTAL FUEL =	492. GALLONS		10480. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		727. KILOGRAMS	

```
QUEUE SPLIT SECTION 14
QUEUE CLEAR SECTION  14 T2 =0.238
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1620.	0.	1620.	1620.	0.	1620.	3850.	0.	0.	0.	.42	50.	16.2	B	17.4	2.3
2	2	2070.	332.	0.	1952.	332.	0.	1952.	3848.	2.	0.	0.	.51	50.	19.5	C	15.9	2.3
3	3	2300.	1532.	352.	3484.	1532.	352.	3484.	5901.	199.	0.	0.	.59	55.	21.1	C	14.0	2.4
4	3	1020.	0.	0.	3132.	0.	0.	3132.	6100.	0.	0.	0.	.51	62.	16.8	B	19.9	4.8
5	3	710.	228.	0.	3360.	228.	0.	3360.	6100.	0.	0.	0.	.55	62.	18.1	C	16.1	4.4
6	3	3820.	292.	796.	3652.	292.	796.	3652.	6150.	0.	0.	0.	.59	62.	19.6	C	17.1	4.8
7	2	1220.	0.	0.	2856.	0.	0.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	18.2	4.4
8	2	4810.	420.	596.	3276.	420.	596.	3276.	4600.	0.	0.	0.	.71	62.	26.4	D	20.6	4.3
9	2	1370.	0.	0.	2680.	0.	0.	2680.	4000.	0.	0.	0.	.67	61.	22.1	C	23.6	4.4
10	2	660.	228.	0.	2908.	228.	0.	2908.	4380.	20.	0.	0.	.66	45.	32.2	D	23.4	4.4
11	3	790.	732.	680.	3640.	732.	680.	3640.	5532.	568.	0.	0.	.66	32.	38.0	E	27.9	4.6
12	2	1460.	0.	0.	2960.	0.	0.	2960.	4100.	0.	0.	0.	.72	31.	47.9	F	19.8	4.0
13	2	1400.	400.	0.	3360.	400.	0.	3360.	3970.	0.	0.	0.	.85	40.	41.5	E	14.6	2.6
14	2	2600.	0.	444.	3360.	0.	444.	3876.	3970.	0.	0.	-516.	.98	38.	50.8	F	22.6	2.6
15	2	2010.	0.	0.	2916.	0.	0.	3534.	3900.	0. *	39.	-102.	.91	37.	47.4	F	15.0	3.0
16	2	6120.	316.	588.	3232.	316.	701.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2644.	0.	0.	3149.	4300.	0.	0.	0.	.73	62.	25.5	C	18.2	4.3
18	3	930.	372.	0.	3016.	372.	0.	3521.	6100.	0.	0.	0.	.58	62.	18.9	C	20.6	4.4
19	3	5330.	108.	480.	3124.	108.	558.	3629.	6090.	10.	0.	0.	.60	62.	19.5	C	20.6	4.4
20	2	2830.	0.	0.	2644.	0.	0.	3071.	3800.	0.	0.	0.	.81	61.	25.2	C	21.1	3.8
21	3	1660.	324.	636.	2968.	324.	728.	3395.	6036.	64.	0.	0.	.56	61.	18.6	C	21.1	3.8
22	2	2270.	0.	0.	2332.	0.	0.	2668.	4400.	0.	0.	0.	.61	62.	21.5	C	20.6	4.4
23	2	3040.	96.	352.	2428.	96.	401.	2764.	4100.	0.	0.	0.	.67	62.	22.3	C	20.6	4.4
24	2	2190.	0.	0.	2076.	0.	0.	2363.	4200.	0.	0.	0.	.56	65.	18.2	C	19.2	6.1
25	3	2400.	68.	2144.	2144.	68.	2431.	2431.	6150.	0.	0.	0.	.40	65.	12.5	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 53.	25.7		19.2	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	166. VEH-HRS	196. PASS-HRS	5859. VEH-HRS	6913. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	166. VEH-HRS	196. PASS-HRS	5859. VEH-HRS	6913. PASS-HRS
TOTAL TRAV DISTANCE =	8825. VEH-MI.	10413. PASS-MI.	195568. VEH-MI.	230770. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		33. MPH.	
AVERAGE DENSITY =	26. VPMPL		45. VPMPL	
TOTAL FUEL =	461. GALLONS		10941. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		760. KILOGRAMS	

QUEUE CLEAR SECTION 15 FT= 0

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1376.	0.	1376.	1376.	0.	1376.	3850.	0.	0.	0.	.36	50.	13.8	B	17.4	2.3
2	2	2070.	404.	0.	1780.	404.	0.	1780.	3850.	0.	0.	0.	.46	50.	17.8	B	15.9	2.3
3	3	2300.	1352.	348.	3132.	1352.	348.	3132.	5914.	186.	0.	0.	.53	55.	19.0	C	14.0	2.4
4	3	1020.	0.	0.	2784.	0.	0.	2784.	6100.	0.	0.	0.	.46	62.	15.0	B	19.9	4.8
5	3	710.	136.	0.	2920.	136.	0.	2920.	6100.	0.	0.	0.	.48	62.	15.7	B	16.1	4.4
6	3	3820.	288.	672.	3208.	288.	672.	3208.	6150.	0.	0.	0.	.52	62.	17.2	B	17.1	4.8
7	2	1220.	0.	0.	2536.	0.	0.	2536.	4400.	0.	0.	0.	.58	62.	20.5	C	18.2	4.4
8	2	4810.	400.	512.	2936.	400.	512.	2936.	4600.	0.	0.	0.	.64	62.	23.7	C	20.6	4.4
9	2	1370.	0.	0.	2424.	0.	0.	2424.	4000.	0.	0.	0.	.61	62.	19.5	C	23.6	4.4
10	2	660.	176.	0.	2600.	176.	0.	2600.	4384.	16.	0.	0.	.59	62.	21.0	C	23.6	4.4
11	3	790.	736.	688.	3336.	736.	688.	3336.	5544.	556.	0.	0.	.60	62.	17.9	B	30.0	4.4
12	2	1460.	0.	0.	2648.	0.	0.	2648.	4100.	0.	0.	0.	.65	62.	21.4	C	20.6	4.4
13	2	1400.	372.	0.	3020.	372.	0.	3020.	3970.	0.	0.	0.	.76	62.	24.4	C	13.6	4.4
14	2	2600.	0.	516.	3020.	0.	516.	3020.	3970.	0.	0.	0.	.76	62.	24.4	C	20.6	4.4
15	2	2010.	0.	0.	2504.	0.	0.	2507.	3900.	0.	0.	-3.	.64	59.	21.4	C	14.6	4.4
16	2	6120.	308.	596.	2812.	308.	597.	2815.	3850.	0.	0.	0.	.73	62.	22.7	C	18.2	4.4
17	2	1240.	0.	0.	2216.	0.	0.	2218.	4300.	0.	0.	0.	.52	62.	17.9	B	18.2	4.4
18	3	930.	420.	0.	2636.	420.	0.	2638.	6100.	0.	0.	0.	.43	62.	14.2	B	20.6	4.4
19	3	5330.	112.	464.	2748.	112.	464.	2750.	6100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
20	2	2830.	0.	0.	2284.	0.	0.	2286.	3800.	0.	0.	0.	.60	61.	18.7	C	21.1	3.8
21	3	1660.	372.	668.	2656.	372.	668.	2658.	6002.	98.	0.	0.	.44	61.	14.5	B	21.1	3.8
22	2	2270.	0.	0.	1988.	0.	0.	1989.	4400.	0.	0.	0.	.45	62.	16.0	B	20.6	4.4
23	2	3040.	68.	320.	2056.	68.	320.	2057.	4100.	0.	0.	0.	.50	62.	16.6	B	20.6	4.4
24	2	2190.	0.	0.	1736.	0.	0.	1737.	4200.	0.	0.	0.	.41	65.	13.4	B	19.2	6.1
25	3	2400.	64.	1800.	1800.	64.	1801.	1801.	6150.	0.	0.	0.	.29	65.	9.2	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.76	LOWEST LOS = C		AVG = 60.	18.1		18.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	117. VEH-HRS	138. PASS-HRS	5976. VEH-HRS	7052. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	117. VEH-HRS	138. PASS-HRS	5976. VEH-HRS	7052. PASS-HRS
TOTAL TRAV DISTANCE =	7077. VEH-MI.	8351. PASS-MI.	202645. VEH-MI.	239121. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		34. MPH.	
AVERAGE DENSITY =	18. VPMPL		44. VPMPL	
TOTAL FUEL =	380. GALLONS		11321. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		790. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1196.	0.	1196.	1196.	0.	1196.	3850.	0.	0.	0.	.31	50.	12.0	B	17.4	2.3
2	2	2070.	452.	0.	1648.	452.	0.	1648.	3850.	0.	0.	0.	.43	50.	16.5	B	15.9	2.3
3	3	2300.	1308.	308.	2956.	1308.	308.	2956.	5945.	155.	0.	0.	.50	55.	17.9	B	14.0	2.4
4	3	1020.	0.	0.	2648.	0.	0.	2648.	6100.	0.	0.	0.	.43	62.	14.2	B	19.9	4.8
5	3	710.	80.	0.	2728.	80.	0.	2728.	6100.	0.	0.	0.	.45	62.	14.7	B	16.1	4.4
6	3	3820.	336.	616.	3064.	336.	616.	3064.	6150.	0.	0.	0.	.50	62.	16.5	B	17.1	4.8
7	2	1220.	0.	0.	2448.	0.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	18.2	4.4
8	2	4810.	416.	600.	2864.	416.	600.	2864.	4600.	0.	0.	0.	.62	62.	23.1	C	20.6	4.4
9	2	1370.	0.	0.	2264.	0.	0.	2264.	4000.	0.	0.	0.	.57	62.	18.3	C	23.6	4.4
10	2	660.	180.	0.	2444.	180.	0.	2444.	4385.	15.	0.	0.	.56	62.	19.7	C	23.6	4.4
11	3	790.	636.	564.	3080.	636.	564.	3080.	5635.	465.	0.	0.	.55	62.	16.6	B	30.0	4.4
12	2	1460.	0.	0.	2516.	0.	0.	2516.	4100.	0.	0.	0.	.61	62.	20.3	C	20.6	4.4
13	2	1400.	312.	0.	2828.	312.	0.	2828.	3970.	0.	0.	0.	.71	62.	22.8	C	13.6	4.4
14	2	2600.	0.	472.	2828.	0.	472.	2828.	3970.	0.	0.	0.	.71	62.	22.8	C	20.6	4.4
15	2	2010.	0.	0.	2356.	0.	0.	2356.	3900.	0.	0.	0.	.60	62.	19.0	C	14.7	4.4
16	2	6120.	348.	588.	2704.	348.	588.	2704.	3850.	0.	0.	0.	.70	62.	21.8	C	18.2	4.4
17	2	1240.	0.	0.	2116.	0.	0.	2116.	4300.	0.	0.	0.	.49	62.	17.1	B	18.2	4.4
18	3	930.	272.	0.	2388.	272.	0.	2388.	6100.	0.	0.	0.	.39	62.	12.8	B	20.6	4.4
19	3	5330.	84.	464.	2472.	84.	464.	2472.	6100.	0.	0.	0.	.41	62.	13.3	B	20.6	4.4
20	2	2830.	0.	0.	2008.	0.	0.	2008.	3800.	0.	0.	0.	.53	61.	16.5	B	21.1	3.8
21	3	1660.	356.	588.	2364.	356.	588.	2364.	6060.	40.	0.	0.	.39	61.	12.9	B	21.1	3.8
22	2	2270.	0.	0.	1776.	0.	0.	1776.	4400.	0.	0.	0.	.40	62.	14.3	B	20.6	4.4
23	2	3040.	84.	336.	1860.	84.	336.	1860.	4100.	0.	0.	0.	.45	62.	15.0	B	20.6	4.4
24	2	2190.	0.	0.	1524.	0.	0.	1524.	4200.	0.	0.	0.	.36	65.	11.7	B	19.2	6.1
25	3	2400.	36.	1560.	1560.	36.	1560.	1560.	6150.	0.	0.	0.	.25	65.	8.0	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.71		LOWEST LOS = C	AVG = 61.	16.7		18.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	108. VEH-HRS	128. PASS-HRS	6084. VEH-HRS	7180. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	108. VEH-HRS	128. PASS-HRS	6084. VEH-HRS	7180. PASS-HRS
TOTAL TRAV DISTANCE =	6565. VEH-MI.	7747. PASS-MI.	209210. VEH-MI.	246868. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		34. MPH.	
AVERAGE DENSITY =	17. VPMPL		42. VPMPL	
TOTAL FUEL =	353. GALLONS		11673. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		817. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1136.	0.	1136.	1136.	0.	1136.	3850.	0.	0.	0.	.30	50.	11.4	B	17.4	2.3
2	2	2070.	448.	0.	1584.	448.	0.	1584.	3850.	0.	0.	0.	.41	50.	15.8	B	15.9	2.3
3	3	2300.	1324.	316.	2908.	1324.	316.	2908.	5945.	155.	0.	0.	.49	55.	17.6	B	14.0	2.4
4	3	1020.	0.	0.	2592.	0.	0.	2592.	6100.	0.	0.	0.	.42	62.	13.9	B	19.9	4.8
5	3	710.	96.	0.	2688.	96.	0.	2688.	6100.	0.	0.	0.	.44	62.	14.5	B	16.1	4.4
6	3	3820.	240.	592.	2928.	240.	592.	2928.	6150.	0.	0.	0.	.48	62.	15.7	B	17.1	4.8
7	2	1220.	0.	0.	2336.	0.	0.	2336.	4400.	0.	0.	0.	.53	62.	18.8	C	18.2	4.4
8	2	4810.	384.	684.	2720.	384.	684.	2720.	4600.	0.	0.	0.	.59	62.	21.9	C	20.6	4.4
9	2	1370.	0.	0.	2036.	0.	0.	2036.	4000.	0.	0.	0.	.51	62.	16.4	B	23.6	4.4
10	2	660.	196.	0.	2232.	196.	0.	2232.	4380.	20.	0.	0.	.51	62.	18.0	B	23.6	4.4
11	3	790.	524.	612.	2756.	524.	612.	2756.	5668.	432.	0.	0.	.49	62.	14.8	B	30.0	4.4
12	2	1460.	0.	0.	2144.	0.	0.	2144.	4100.	0.	0.	0.	.52	62.	17.3	B	20.6	4.4
13	2	1400.	292.	0.	2436.	292.	0.	2436.	3970.	0.	0.	0.	.61	62.	19.6	C	13.6	4.4
14	2	2600.	0.	396.	2436.	0.	396.	2436.	3970.	0.	0.	0.	.61	62.	19.6	C	20.6	4.4
15	2	2010.	0.	0.	2040.	0.	0.	2040.	3900.	0.	0.	0.	.52	62.	16.5	B	14.7	4.4
16	2	6120.	268.	520.	2308.	268.	520.	2308.	3850.	0.	0.	0.	.60	62.	18.6	C	18.2	4.4
17	2	1240.	0.	0.	1788.	0.	0.	1788.	4300.	0.	0.	0.	.42	62.	14.4	B	18.2	4.4
18	3	930.	168.	0.	1956.	168.	0.	1956.	6100.	0.	0.	0.	.32	62.	10.5	A	20.6	4.4
19	3	5330.	64.	392.	2020.	64.	392.	2020.	6100.	0.	0.	0.	.33	62.	10.9	A	20.6	4.4
20	2	2830.	0.	0.	1628.	0.	0.	1628.	3800.	0.	0.	0.	.43	61.	13.3	B	21.1	3.8
21	3	1660.	272.	444.	1900.	272.	444.	1900.	6100.	0.	0.	0.	.31	61.	10.4	A	21.1	3.8
22	2	2270.	0.	0.	1456.	0.	0.	1456.	4400.	0.	0.	0.	.33	62.	11.7	B	20.6	4.4
23	2	3040.	76.	300.	1532.	76.	300.	1532.	4100.	0.	0.	0.	.37	62.	12.4	B	20.6	4.4
24	2	2190.	0.	0.	1232.	0.	0.	1232.	4200.	0.	0.	0.	.29	65.	9.5	A	19.2	6.1
25	3	2400.	32.	1264.	1264.	32.	1264.	1264.	6150.	0.	0.	0.	.21	65.	6.5	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.61		LOWEST LOS = C	AVG = 60.	14.8		18.5	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	96. VEH-HRS	113. PASS-HRS	6180. VEH-HRS	7293. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	96. VEH-HRS	113. PASS-HRS	6180. VEH-HRS	7293. PASS-HRS
TOTAL TRAV DISTANCE =	5805. VEH-MI.	6849. PASS-MI.	215015. VEH-MI.	253717. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		35. MPH.	
AVERAGE DENSITY =	15. VPMPL		41. VPMPL	
TOTAL FUEL =	313. GALLONS		11986. GALLONS	
TOTAL EMISSIONS =	24. KILOGRAMS		842. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	178.	210.	0.	0.	178.	210.	10050.	11859.	56.4	518.	1.	25.	8.	14:00
2	203.	240.	0.	0.	203.	240.	10500.	12390.	51.7	543.	1.	25.	8.	14:15
3	219.	259.	0.	0.	219.	259.	9991.	11789.	45.6	525.	2.	26.	8.	14:30
4	253.	299.	0.	0.	253.	299.	10468.	12352.	41.3	557.	2.	27.	8.	14:45
5	286.	338.	0.	0.	286.	338.	9705.	11452.	33.9	537.	2.	28.	8.	15:00
6	303.	357.	0.	0.	303.	357.	9740.	11493.	32.2	546.	2.	28.	8.	15:15
7	305.	360.	0.	0.	305.	360.	9637.	11371.	31.5	542.	2.	28.	7.	15:30
8	327.	386.	0.	0.	327.	386.	10108.	11928.	30.9	576.	2.	29.	8.	15:45
9	357.	421.	0.	0.	357.	421.	9819.	11587.	27.5	575.	3.	30.	8.	16:00
10	380.	448.	0.	0.	380.	448.	9945.	11735.	26.2	592.	3.	31.	8.	16:15
11	405.	477.	0.	0.	405.	477.	9818.	11586.	24.3	595.	3.	32.	8.	16:30
12	393.	464.	0.	0.	393.	464.	9958.	11751.	25.3	600.	3.	32.	8.	16:45
13	387.	457.	0.	0.	387.	457.	9521.	11234.	24.6	576.	3.	32.	7.	17:00
14	353.	417.	0.	0.	353.	417.	9718.	11467.	27.5	568.	3.	30.	7.	17:15
15	342.	403.	0.	0.	342.	403.	9502.	11212.	27.8	552.	2.	29.	7.	17:30
16	300.	354.	0.	0.	300.	354.	9885.	11664.	33.0	554.	2.	29.	8.	17:45
17	263.	310.	0.	0.	263.	310.	9554.	11274.	36.3	523.	2.	27.	7.	18:00
18	236.	279.	0.	0.	236.	279.	9468.	11172.	40.1	508.	2.	27.	7.	18:15
19	202.	238.	0.	0.	202.	238.	9357.	11041.	46.4	492.	2.	25.	7.	18:30
20	166.	196.	0.	0.	166.	196.	8825.	10413.	53.2	461.	1.	24.	7.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	117.	138.	0.	0.	117.	138.	7077.	8351.	60.4	380.	1.	22.	6.	19:00
22	108.	128.	0.	0.	108.	128.	6565.	7747.	60.5	353.	1.	21.	6.	19:15
23	96.	113.	0.	0.	96.	113.	5805.	6849.	60.4	313.	1.	18.	5.	19:30
TOTAL	6180.	7293.	0.	0.	6180.	7293.	215015.	253717.	34.8	11986.	45.	626.	170.	

Opening Year (2025) Interim Build
(Aux Lanes Only)
Northbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2232.	24.	2232.	2232.	24.	2232.	4400.	0.	0.	0.	.51	62.	18.0	C	13.6	4.8
2	2	1970.	0.	0.	2208.	0.	0.	2208.	4100.	0.	0.	0.	.54	62.	17.8	B	13.6	4.8
3	2	1830.	176.	24.	2384.	176.	24.	2384.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
4	2	2010.	0.	0.	2360.	0.	0.	2360.	4100.	0.	0.	0.	.58	62.	19.0	C	13.6	4.8
5	3	2445.	328.	96.	2688.	328.	96.	2688.	5600.	0.	0.	0.	.48	62.	14.5	B	13.6	4.8
6	2	1890.	0.	0.	2592.	0.	0.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
7	3	5320.	316.	136.	2908.	316.	136.	2908.	5600.	0.	0.	0.	.52	62.	15.6	B	13.6	4.8
8	2	880.	0.	0.	2772.	0.	0.	2772.	3900.	0.	0.	0.	.71	62.	22.4	C	14.9	4.8
9	2	1125.	84.	0.	2856.	84.	0.	2856.	3900.	0.	0.	0.	.73	62.	23.0	C	19.9	4.8
10	3	6320.	248.	84.	3104.	248.	84.	3104.	5599.	1.	0.	0.	.55	62.	16.7	B	19.9	4.8
11	2	2050.	0.	0.	3020.	0.	0.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
12	3	2560.	212.	0.	3232.	212.	0.	3232.	5589.	11.	0.	0.	.58	62.	17.4	B	17.2	4.8
13	3	1400.	0.	168.	3232.	0.	168.	3232.	5589.	11.	0.	0.	.58	62.	17.4	B	32.3	4.8
14	2	1320.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	14.9	4.8
15	3	540.	376.	548.	3440.	376.	548.	3440.	5284.	316.	0.	0.	.65	62.	18.5	C	12.6	4.8
16	2	1230.	0.	0.	2892.	0.	0.	2892.	4400.	0.	0.	0.	.66	62.	23.3	C	19.9	4.8
17	2	890.	404.	0.	3296.	404.	0.	3296.	4400.	0.	0.	0.	.75	62.	26.7	D	20.1	4.6
18	3	4840.	72.	424.	3368.	72.	424.	3368.	5578.	22.	0.	0.	.60	62.	18.1	C	17.2	4.8
19	2	530.	0.	0.	2944.	0.	0.	2944.	3800.	0.	0.	0.	.77	62.	23.7	C	19.9	4.8
20	2	1040.	504.	0.	3448.	504.	0.	3448.	4393.	7.	0.	0.	.78	61.	28.1	D	20.3	4.4
21	3	2810.	300.	280.	3748.	300.	280.	3748.	5576.	24.	0.	0.	.67	62.	20.2	C	24.1	4.8
22	2	1850.	0.	0.	3468.	0.	0.	3468.	4400.	0.	0.	0.	.79	61.	28.3	D	17.5	4.3
23	3	2390.	208.	216.	3676.	208.	216.	3676.	5580.	20.	0.	0.	.66	62.	19.8	C	24.1	4.8
24	3	960.	0.	1972.	3460.	0.	1500.	3460.	5600.	0.	0.	0.	.62	62.	18.6	C	17.2	4.8
25	2	1400.	0.	1488.	1488.	0.	1488.	1488.	3600.	0.	0.	0.	.41	62.	12.0	B	19.9	4.8
TOTAL		62500. =	11.8 MILES							MAX(V/C) = 0.79	LOWEST LOS = D		AVG = 62.		18.9		16.6	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	154. PASS-HRS	136. VEH-HRS	154. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	15. VEH-HRS	17. PASS-HRS	15. VEH-HRS	17. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	151. VEH-HRS	171. PASS-HRS	151. VEH-HRS	171. PASS-HRS
TOTAL TRAV DISTANCE =	8448. VEH-MI.	9563. PASS-MI.	8448. VEH-MI.	9563. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	19. VPMPL		19. VPMPL	
TOTAL FUEL =	515. GALLONS		515. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		41. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	118.	14.75	5.59	0.09	0.53	0.09	0.71

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2840.	20.	2840.	2840.	20.	2840.	4400.	0.	0.	0.	.65	62.	22.9	C	13.6	4.8
2	2	1970.	0.	0.	2820.	0.	0.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
3	2	1830.	204.	36.	3024.	204.	36.	3024.	4100.	0.	0.	0.	.74	62.	24.4	C	13.6	4.8
4	2	2010.	0.	0.	2988.	0.	0.	2988.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
5	3	2445.	440.	120.	3428.	440.	120.	3428.	5600.	0.	0.	0.	.61	62.	18.4	C	13.6	4.8
6	2	1890.	0.	0.	3308.	0.	0.	3308.	4100.	0.	0.	0.	.81	61.	27.2	D	13.9	4.1
7	3	5320.	324.	180.	3632.	324.	180.	3632.	5600.	0.	0.	0.	.65	62.	19.5	C	13.6	4.8
8	2	880.	0.	0.	3452.	0.	0.	3452.	3900.	0.	0.	0.	.89	58.	29.5	D	15.9	3.2
9	2	1125.	116.	0.	3568.	116.	0.	3568.	3900.	0.	0.	0.	.91	57.	31.2	D	21.7	2.9
10	3	6320.	292.	104.	3860.	292.	104.	3860.	5598.	2.	0.	0.	.69	62.	20.8	C	19.9	4.8
11	2	2050.	0.	0.	3756.	0.	0.	3756.	4100.	0.	0.	0.	.92	57.	32.9	D	21.7	2.9
12	3	2560.	248.	0.	4004.	248.	0.	4004.	5588.	12.	0.	0.	.72	62.	21.5	C	17.2	4.8
13	3	1400.	0.	172.	4004.	0.	172.	4004.	5588.	12.	0.	0.	.72	62.	21.5	C	32.3	4.8
14	2	1320.	0.	0.	3832.	0.	0.	3832.	4400.	0.	0.	0.	.87	59.	32.5	D	15.8	3.4
15	3	540.	376.	740.	4208.	376.	740.	4208.	5288.	312.	0.	0.	.80	62.	22.6	C	12.6	4.8
16	2	1230.	0.	0.	3468.	0.	0.	3468.	4400.	0.	0.	0.	.79	61.	28.3	D	20.3	4.3
17	2	890.	432.	0.	3900.	432.	0.	3900.	4398.	2.	0.	0.	.89	58.	33.4	D	21.4	3.2
18	3	4840.	84.	556.	3984.	84.	556.	3984.	5565.	35.	0.	0.	.72	62.	21.4	C	17.2	4.8
19	2	530.	0.	0.	3428.	0.	0.	3428.	3800.	0.	0.	0.	.90	58.	29.7	D	21.5	3.1
20	2	1040.	492.	0.	3920.	492.	0.	3920.	4389.	11.	0.	0.	.89	58.	33.7	D	21.4	3.2
21	3	2810.	352.	376.	4272.	352.	376.	4272.	5568.	32.	0.	0.	.77	62.	23.0	C	24.1	4.8
22	2	1850.	0.	0.	3896.	0.	0.	3896.	4400.	0.	0.	0.	.89	58.	33.3	D	18.4	3.2
23	3	2390.	204.	320.	4100.	204.	320.	4100.	5562.	38.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1948.	3780.	0.	1500.	3780.	5592.	8.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	1832.	1832.	0.	1832.	1832.	3600.	0.	0.	0.	.51	62.	14.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES						MAX(V/C) = 0.92		LOWEST LOS = D		AVG = 61.		23.5		16.7	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	169. VEH-HRS	191. PASS-HRS	305. VEH-HRS	345. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	44. VEH-HRS	49. PASS-HRS	58. VEH-HRS	66. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	212. VEH-HRS	240. PASS-HRS	363. VEH-HRS	411. PASS-HRS
TOTAL TRAV DISTANCE =	10328. VEH-MI.	11692. PASS-MI.	18777. VEH-MI.	21255. PASS-MI.
AVERAGE SYSTEM SPEED =	49. MPH.		62. MPH.	
AVERAGE DENSITY =	24. VPMPL		21. VPMPL	
TOTAL FUEL =	636. GALLONS		1151. GALLONS	
TOTAL EMISSIONS =	48. KILOGRAMS		89. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	230.	43.50	16.48	0.25	1.56	0.27	2.08

QUEUE COLLISION IN SECTION 8 T2 =0.036

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3760.	32.	3760.	3760.	32.	3760.	4400.	0.	0.	0.	.85	60.	31.5	D	14.2	3.5
2	2	1970.	0.	0.	3728.	0.	0.	3728.	4100.	0.	0.	0.	.91	57.	32.5	D	14.6	3.0
3	2	1830.	276.	160.	4004.	276.	160.	4004.	4100.	0.	0.	0.	.98	53.	37.5	E	15.4	2.4
4	2	2010.	0.	0.	3844.	0.	0.	3844.	4100.	0.	0.	0.	.94	56.	34.4	D	15.0	2.6
5	3	2445.	480.	144.	4324.	480.	144.	4244.	5600.	0. *	583.	80.	.76	47.	29.9	F	13.3	4.8
6	2	1890.	0.	0.	4180.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
7	3	5320.	348.	252.	4528.	348.	248.	3987.	5600.	0. *	2886.	461.	.71	35.	37.8	F	12.9	5.0
8	2	880.	0.	0.	4276.	0.	0.	3740.	3900.	0. **	880.	160.	.96	35.	53.9	F	15.1	2.9
9	2	1125.	160.	0.	4436.	160.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	280.	156.	4716.	280.	138.	4180.	5597.	3.	0.	0.	.75	62.	22.5	C	19.9	4.8
11	2	2050.	0.	0.	4560.	0.	0.	4042.	4100.	0.	0.	0.	.99	53.	38.4	E	22.8	2.4
12	3	2560.	304.	0.	4864.	304.	0.	4346.	5584.	16.	0.	0.	.78	62.	23.4	C	17.2	4.8
13	3	1400.	0.	240.	4864.	0.	214.	4346.	5584.	16.	0.	0.	.78	62.	23.4	C	32.3	4.8
14	2	1320.	0.	0.	4624.	0.	0.	4131.	4400.	0.	0.	0.	.94	56.	37.0	E	16.5	2.6
15	3	540.	436.	988.	5060.	436.	892.	4567.	5248.	352.	0.	0.	.87	62.	24.6	C	12.6	4.8
16	2	1230.	0.	0.	4072.	0.	0.	3676.	4400.	0.	0.	0.	.84	60.	30.5	D	20.8	3.7
17	2	890.	444.	0.	4516.	444.	0.	4120.	4395.	5.	0.	0.	.94	56.	36.9	E	22.1	2.6
18	3	4840.	76.	692.	4592.	76.	632.	4196.	5551.	49.	0.	0.	.76	62.	22.6	C	17.2	4.8
19	2	530.	0.	0.	3900.	0.	0.	3563.	3800.	0.	0.	0.	.94	56.	31.9	D	22.1	2.6
20	2	1040.	496.	0.	4396.	496.	0.	4059.	4385.	15.	0.	0.	.93	57.	35.9	E	21.9	2.8
21	3	2810.	408.	568.	4804.	408.	528.	4467.	5556.	44.	0.	0.	.80	62.	24.0	C	24.1	4.8
22	2	1850.	0.	0.	4236.	0.	0.	3939.	4400.	0.	0.	0.	.90	58.	33.9	D	18.5	3.1
23	3	2390.	180.	312.	4416.	180.	291.	4119.	5559.	41.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	2148.	4104.	0.	1500.	3828.	5589.	11.	0.	0.	.68	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1956.	1956.	0.	1824.	1824.	3600.	0.	0.	0.	.51	62.	14.7	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 55.	30.1		16.7	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	217. VEH-HRS	246. PASS-HRS	522. VEH-HRS	591. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	73. VEH-HRS	83. PASS-HRS	131. VEH-HRS	149. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	291. VEH-HRS	329. PASS-HRS	654. VEH-HRS	740. PASS-HRS
TOTAL TRAV DISTANCE =	11850. VEH-MI.	13414. PASS-MI.	30627. VEH-MI.	34669. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		59. MPH.	
AVERAGE DENSITY =	30. VPMPL		24. VPMPL	
TOTAL FUEL =	736. GALLONS		1887. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		140. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	356.	73.24	27.74	0.43	2.62	0.46	3.50

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3916.	60.	3916.	3916.	60.	3738.	4400.	0.	* 1043.	178.	.85	57.	32.9	F	14.4	3.2
2	2	1970.	0.	0.	3856.	0.	0.	3678.	4100.	0.	** 1970.	178.	.90	32.	58.0	F	13.6	3.3
3	2	1830.	376.	332.	4232.	376.	318.	4054.	4054.	46.	0.	0.	1.00	52.	39.3	E	15.7	2.3
4	2	2010.	0.	0.	3900.	0.	0.	3425.	4100.	0.	* 1146.	311.	.84	52.	33.2	F	14.5	3.0
5	3	2445.	868.	200.	4768.	868.	193.	4293.	5518.	82.	** 2445.	311.	.78	23.	62.6	F	12.1	5.0
6	2	1890.	0.	0.	4568.	0.	0.	3687.	4100.	0.	* 1290.	413.	.90	50.	37.1	F	15.6	2.4
7	3	5320.	372.	336.	4940.	372.	304.	4059.	5600.	0.	** 5320.	413.	.72	18.	74.3	F	11.7	5.5
8	2	880.	0.	0.	4604.	0.	0.	3755.	3900.	0.	** 880.	145.	.96	34.	54.7	F	15.0	2.9
9	2	1125.	144.	0.	4748.	144.	0.	3899.	3899.	1.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	320.	216.	5068.	320.	180.	4219.	5594.	6.	0.	0.	.75	62.	22.7	C	19.9	4.8
11	2	2050.	0.	0.	4852.	0.	0.	4039.	4100.	0.	0.	0.	.99	53.	38.3	E	22.8	2.4
12	3	2560.	352.	0.	5204.	352.	0.	4391.	5572.	28.	0.	0.	.79	62.	23.6	C	17.2	4.8
13	3	1400.	0.	416.	5204.	0.	351.	4391.	5572.	28.	0.	0.	.79	62.	23.6	C	32.3	4.8
14	2	1320.	0.	0.	4788.	0.	0.	4040.	4400.	0.	0.	0.	.92	57.	35.5	E	16.2	2.9
15	3	540.	496.	1196.	5284.	496.	1026.	4536.	5216.	384.	0.	0.	.87	62.	24.4	C	12.6	4.8
16	2	1230.	0.	0.	4088.	0.	0.	3510.	4400.	0.	0.	0.	.80	61.	28.7	D	20.4	4.2
17	2	890.	432.	0.	4520.	432.	0.	3942.	4395.	5.	0.	0.	.90	58.	34.0	D	21.5	3.1
18	3	4840.	84.	784.	4604.	84.	685.	4026.	5545.	55.	0.	0.	.73	62.	21.6	C	17.2	4.8
19	2	530.	0.	0.	3820.	0.	0.	3341.	3800.	0.	0.	0.	.88	59.	28.4	D	21.3	3.3
20	2	1040.	536.	0.	4356.	536.	0.	3877.	4380.	20.	0.	0.	.89	58.	33.1	D	21.3	3.2
21	3	2810.	424.	756.	4780.	424.	680.	4301.	5539.	61.	0.	0.	.78	62.	23.1	C	24.1	4.8
22	2	1850.	0.	0.	4024.	0.	0.	3621.	4400.	0.	0.	0.	.82	61.	29.9	D	17.8	3.9
23	3	2390.	236.	192.	4260.	236.	174.	3857.	5550.	50.	0.	0.	.69	62.	20.7	C	24.1	4.8
24	3	960.	0.	2308.	4068.	0.	1500.	3682.	5591.	9.	0.	0.	.66	62.	19.8	C	17.2	4.8
25	2	1400.	0.	1760.	1760.	0.	1593.	1593.	3600.	0.	0.	0.	.44	62.	12.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 45.	35.0		16.4	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	261. VEH-HRS	296. PASS-HRS	784. VEH-HRS	887. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	107. VEH-HRS	122. PASS-HRS	239. VEH-HRS	270. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	369. VEH-HRS	417. PASS-HRS	1022. VEH-HRS	1157. PASS-HRS
TOTAL TRAV DISTANCE =	11735. VEH-MI.	13285. PASS-MI.	42362. VEH-MI.	47954. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		54. MPH.	
AVERAGE DENSITY =	35. VPMPL		27. VPMPL	
TOTAL FUEL =	757. GALLONS		2644. GALLONS	
TOTAL EMISSIONS =	52. KILOGRAMS		192. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	503.	107.37	40.67	0.62	3.84	0.67	5.14

```
QUEUE COLLISION IN SECTION   6 T2 =0.019
QUEUE CLEAR SECTION   2 FT=   811
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1952.	84.	1952.	1952.	84.	1952.	4400.	0.	0.	0.	.44	54.	18.2	C	13.4	4.9
2	2	1970.	0.	0.	1868.	0.	0.	2258.	4100.	0.	0.	-390.	.55	10.	113.0	F	9.2	7.1
3	2	1830.	632.	448.	2500.	632.	518.	2890.	3898.	202.	0.	0.	.74	62.	23.3	C	13.6	4.8
4	2	2010.	0.	0.	2052.	0.	0.	2372.	4100.	0.	0.	0.	.58	36.	32.7	D	12.9	5.1
5	3	2445.	1724.	288.	3776.	1500.	295.	4083.	5452.	148.	* 1910.	-211.	.75	17.	79.4	F	11.5	5.3
6	2	1890.	0.	0.	3488.	0.	0.	3788.	4100.	0.	** 1890.	293.	.92	30.	63.6	F	13.6	3.3
7	3	5320.	448.	424.	3936.	448.	488.	4236.	5600.	0.	** 5320.	293.	.76	17.	83.8	F	11.4	5.3
8	2	880.	0.	0.	3512.	0.	0.	3748.	3900.	0.	** 880.	152.	.96	34.	55.0	F	15.0	2.9
9	2	1125.	152.	0.	3664.	152.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	440.	260.	4104.	440.	275.	4340.	5597.	3.	0.	0.	.78	62.	23.3	C	19.9	4.8
11	2	2050.	0.	0.	3844.	0.	0.	4065.	4100.	0.	0.	0.	.99	52.	38.9	E	22.9	2.3
12	3	2560.	388.	0.	4232.	388.	0.	4453.	5564.	36.	0.	0.	.80	62.	23.9	C	17.2	4.8
13	3	1400.	0.	404.	4232.	0.	425.	4453.	5564.	36.	0.	0.	.80	62.	23.9	C	32.3	4.8
14	2	1320.	0.	0.	3828.	0.	0.	4028.	4400.	0.	0.	0.	.92	57.	35.3	E	16.2	2.9
15	3	540.	680.	1152.	4508.	680.	1204.	4708.	5092.	508.	0.	0.	.92	57.	27.7	D	13.7	2.8
16	2	1230.	0.	0.	3356.	0.	0.	3505.	4400.	0.	0.	0.	.80	61.	28.7	D	20.4	4.2
17	2	890.	508.	0.	3864.	508.	0.	4013.	4399.	1.	0.	0.	.91	57.	35.0	E	21.7	2.9
18	3	4840.	116.	748.	3980.	116.	776.	4129.	5555.	45.	0.	0.	.74	62.	22.2	C	17.2	4.8
19	2	530.	0.	0.	3232.	0.	0.	3353.	3800.	0.	0.	0.	.88	59.	28.6	D	21.3	3.3
20	2	1040.	648.	0.	3880.	648.	0.	4001.	4378.	22.	0.	0.	.91	57.	35.0	D	21.7	2.9
21	3	2810.	508.	724.	4388.	508.	744.	4509.	5529.	71.	0.	0.	.82	62.	24.2	C	24.1	4.8
22	2	1850.	0.	0.	3664.	0.	0.	3765.	4400.	0.	0.	0.	.86	60.	31.6	D	18.1	3.5
23	3	2390.	304.	172.	3968.	304.	177.	4069.	5538.	62.	0.	0.	.73	62.	21.9	C	24.1	4.8
24	3	960.	0.	1856.	3796.	0.	1500.	3892.	5586.	14.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	1940.	1940.	0.	1989.	1989.	3600.	0.	0.	0.	.55	62.	16.0	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 39.	36.0		16.2	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	267. VEH-HRS	302. PASS-HRS	1050. VEH-HRS	1189. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	7. VEH-HRS	8. PASS-HRS
OFF-RAMP DELAY =	138. VEH-HRS	157. PASS-HRS	377. VEH-HRS	427. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	412. VEH-HRS	467. PASS-HRS	1435. VEH-HRS	1624. PASS-HRS
TOTAL TRAV DISTANCE =	10327. VEH-MI.	11690. PASS-MI.	52689. VEH-MI.	59644. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		50. MPH.	
AVERAGE DENSITY =	36. VPMPL		29. VPMPL	
TOTAL FUEL =	694. GALLONS		3338. GALLONS	
TOTAL EMISSIONS =	53. KILOGRAMS		245. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	56.	7.00	2.65	0.04	0.25	0.04	0.33
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	56.	7.00	2.65	0.04	0.25	0.04	0.33
OFF-RAMP	11	OUTPUT POINT	604.	138.36	52.41	0.80	4.95	0.86	6.62

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1944.	104.	1944.	1944.	104.	1944.	4400.	0.	0.	0.	.44	62.	15.7	B	13.6	4.8
2	2	1970.	0.	0.	1840.	0.	0.	1840.	4100.	0.	0.	0.	.45	62.	14.8	B	13.6	4.8
3	2	1830.	724.	396.	2564.	724.	396.	2564.	3901.	199.	0.	0.	.66	62.	20.7	C	13.6	4.8
4	2	2010.	0.	0.	2168.	0.	0.	2168.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
5	3	2445.	1548.	384.	3716.	1500.	374.	3668.	5376.	224.	0.	0.	.68	29.	42.2	E	12.6	5.1
6	2	1890.	0.	0.	3332.	0.	0.	3584.	4100.	0.	* 1690.	-290.	.87	25.	72.2	F	12.8	3.8
7	3	5320.	668.	576.	4000.	668.	564.	4252.	5600.	0.	** 5320.	-290.	.76	17.	83.4	F	11.5	5.3
8	2	880.	0.	0.	3424.	0.	0.	3688.	3900.	0.	** 880.	-290.	.95	32.	57.4	F	14.8	3.1
9	2	1125.	212.	0.	3636.	212.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	544.	348.	4180.	544.	367.	4444.	5594.	6.	0.	0.	.79	62.	23.9	C	19.9	4.8
11	2	2050.	0.	0.	3832.	0.	0.	4077.	4100.	0.	0.	0.	.99	52.	39.2	E	22.9	2.3
12	3	2560.	520.	0.	4352.	520.	0.	4341.	5564.	36.	* 170.	256.	.78	62.	23.5	F	17.2	4.8
13	3	1400.	0.	288.	4352.	0.	309.	4341.	5564.	36.	** 1400.	256.	.78	31.	46.5	F	30.7	4.9
14	2	1320.	0.	0.	4064.	0.	0.	4032.	4400.	0.	** 1320.	256.	.92	31.	66.0	F	14.7	3.2
15	3	540.	892.	1192.	4956.	892.	1187.	4924.	4924.	676.	0.	0.	1.00	52.	31.8	E	14.5	2.3
16	2	1230.	0.	0.	3764.	0.	0.	3737.	4400.	0.	0.	0.	.85	60.	31.3	D	21.0	3.6
17	2	890.	600.	0.	4364.	600.	0.	4337.	4395.	5.	0.	0.	.99	53.	41.2	E	22.8	2.4
18	3	4840.	160.	776.	4524.	160.	773.	4452.	5534.	66.	* 269.	45.	.80	60.	24.9	F	17.1	4.8
19	2	530.	0.	0.	3748.	0.	0.	3679.	3800.	0.	** 530.	45.	.97	37.	49.7	F	21.8	2.8
20	2	1040.	692.	0.	4440.	692.	0.	4371.	4371.	29.	0.	0.	1.00	52.	42.4	E	23.0	2.3
21	3	2810.	776.	908.	5216.	776.	895.	5147.	5192.	408.	0.	0.	.99	52.	32.8	D	29.9	2.3
22	2	1850.	0.	0.	4308.	0.	0.	4252.	4400.	0.	0.	0.	.97	54.	39.3	E	19.5	2.4
23	3	2390.	304.	200.	4612.	304.	197.	4556.	5524.	76.	0.	0.	.82	62.	24.5	C	24.1	4.8
24	3	960.	0.	1676.	4412.	0.	1500.	4359.	5573.	27.	0.	0.	.78	62.	23.4	C	17.2	4.8
25	2	1400.	0.	2736.	2736.	0.	2696.	2696.	3600.	0.	0.	0.	.75	62.	21.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 42.	33.3		16.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	253. VEH-HRS	286. PASS-HRS	1303. VEH-HRS	1475. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	15. VEH-HRS	18. PASS-HRS	22. VEH-HRS	25. PASS-HRS
OFF-RAMP DELAY =	156. VEH-HRS	177. PASS-HRS	533. VEH-HRS	604. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	424. VEH-HRS	480. PASS-HRS	1859. VEH-HRS	2104. PASS-HRS
TOTAL TRAV DISTANCE =	10626. VEH-MI.	12029. PASS-MI.	63315. VEH-MI.	71673. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		49. MPH.	
AVERAGE DENSITY =	33. VPMPL		29. VPMPL	
TOTAL FUEL =	697. GALLONS		4036. GALLONS	
TOTAL EMISSIONS =	53. KILOGRAMS		298. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	68.	15.50	5.87	0.09	0.55	0.10	0.74
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	68.	15.50	5.87	0.09	0.55	0.10	0.74
OFF-RAMP	11	OUTPUT POINT	644.	156.03	59.10	0.91	5.58	0.97	7.47

QUEUE COLLISION IN SECTION 20 T2 =0.025

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2920.	136.	2920.	2920.	136.	2920.	4400.	0.	0.	0.	.66	62.	23.5	C	13.6	4.8
2	2	1970.	0.	0.	2784.	0.	0.	2784.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
3	2	1830.	452.	172.	3236.	452.	172.	3236.	4100.	0.	0.	0.	.79	61.	26.4	D	13.8	4.3
4	2	2010.	0.	0.	3064.	0.	0.	3064.	4100.	0.	0.	0.	.75	62.	24.7	C	13.6	4.8
5	3	2445.	640.	304.	3704.	912.	331.	3905.	5449.	151.	* 388.	71.	.72	52.	25.3	F	13.4	4.8
6	2	1890.	0.	0.	3400.	0.	0.	3574.	4100.	0.	** 1890.	71.	.87	25.	72.3	F	12.8	3.8
7	3	5320.	844.	696.	4244.	844.	730.	4418.	5600.	0.	** 5320.	71.	.79	19.	78.9	F	11.7	4.9
8	2	880.	0.	0.	3548.	0.	0.	3688.	3900.	0.	** 880.	71.	.95	32.	57.4	F	14.8	3.1
9	2	1125.	212.	0.	3760.	212.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	516.	412.	4276.	516.	422.	3777.	5591.	9.	* 962.	639.	.68	58.	21.5	F	19.8	4.8
11	2	2050.	0.	0.	3864.	0.	0.	3354.	4100.	0.	** 2050.	639.	.82	35.	47.3	F	20.9	3.0
12	3	2560.	652.	0.	4516.	652.	0.	4006.	5568.	32.	** 2560.	639.	.72	19.	70.3	F	14.2	5.2
13	3	1400.	0.	228.	4516.	0.	238.	4006.	5568.	32.	** 1400.	639.	.72	15.	88.9	F	24.5	5.7
14	2	1320.	0.	0.	4288.	0.	0.	3768.	4400.	0.	** 1320.	632.	.86	23.	80.8	F	13.4	4.0
15	3	540.	1052.	1380.	5340.	1052.	1243.	4820.	4820.	780.	0.	0.	1.00	52.	31.2	E	14.5	2.3
16	2	1230.	0.	0.	3960.	0.	0.	3577.	4400.	0.	0.	0.	.81	61.	29.4	D	20.6	4.0
17	2	890.	616.	0.	4576.	616.	0.	4193.	4393.	7.	0.	0.	.95	55.	38.2	E	22.4	2.4
18	3	4840.	136.	728.	4712.	136.	671.	3769.	5531.	69.	* 3304.	560.	.68	30.	41.9	F	15.4	5.2
19	2	530.	0.	0.	3984.	0.	0.	3098.	3800.	0.	** 530.	560.	.82	21.	72.2	F	18.3	4.3
20	2	1040.	728.	0.	4712.	728.	0.	3826.	4363.	37.	** 1040.	537.	.88	26.	74.2	F	19.5	3.7
21	3	2810.	1016.	1140.	5728.	1016.	961.	4842.	4842.	758.	0.	0.	1.00	52.	31.3	E	30.3	2.3
22	2	1850.	0.	0.	4588.	0.	0.	3881.	4400.	0.	0.	0.	.88	59.	33.1	D	18.3	3.3
23	3	2390.	368.	260.	4956.	368.	223.	4249.	5500.	100.	0.	0.	.77	62.	22.8	C	24.1	4.8
24	3	960.	0.	1900.	4696.	0.	1500.	4026.	5564.	36.	0.	0.	.72	62.	21.6	C	17.2	4.8
25	2	1400.	0.	2796.	2796.	0.	2398.	2398.	3600.	0.	0.	0.	.67	62.	19.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 37.	39.3		16.0	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	303. VEH-HRS	343. PASS-HRS	1606. VEH-HRS	1818. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	8. VEH-HRS	10. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	165. VEH-HRS	187. PASS-HRS	698. VEH-HRS	791. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	477. VEH-HRS	540. PASS-HRS	2335. VEH-HRS	2644. PASS-HRS
TOTAL TRAV DISTANCE =	11094. VEH-MI.	12558. PASS-MI.	74409. VEH-MI.	84231. PASS-MI.
AVERAGE SYSTEM SPEED =	23. MPH.		46. MPH.	
AVERAGE DENSITY =	39. VPMPL		31. VPMPL	
TOTAL FUEL =	760. GALLONS		4796. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		355. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	0.	8.50	3.22	0.05	0.30	0.05	0.41
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	8.50	3.22	0.05	0.30	0.05	0.41
OFF-RAMP	11	OUTPUT POINT	677.	165.13	62.54	0.96	5.91	1.03	7.90

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2628.	176.	2628.	2628.	176.	2628.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2452.	0.	0.	2452.	4100.	0.	0.	0.	.60	62.	19.8	C	13.6	4.8
3	2	1830.	372.	160.	2824.	372.	160.	2824.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
4	2	2010.	0.	0.	2664.	0.	0.	2664.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
5	3	2445.	656.	288.	3320.	656.	288.	3320.	5565.	35.	0.	0.	.60	60.	18.5	C	13.5	4.8
6	2	1890.	0.	0.	3032.	0.	0.	3032.	4100.	0.	0.	0.	.74	46.	33.1	D	13.4	4.5
7	3	5320.	764.	700.	3796.	764.	700.	4392.	5600.	0.	* 2350.	-596.	.78	21.	70.3	F	11.9	4.9
8	2	880.	0.	0.	3096.	0.	0.	3692.	3900.	0.	** 880.	-596.	.95	32.	57.2	F	14.8	3.1
9	2	1125.	208.	0.	3304.	208.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	456.	384.	3760.	456.	445.	3635.	5595.	5.	* 5106.	721.	.65	22.	54.6	F	16.6	5.5
11	2	2050.	0.	0.	3376.	0.	0.	3190.	4100.	0.	** 2050.	721.	.78	18.	88.4	F	16.9	5.0
12	3	2560.	752.	0.	4128.	752.	0.	3942.	5548.	52.	** 2560.	721.	.71	15.	90.0	F	13.0	5.8
13	3	1400.	0.	288.	4128.	0.	326.	3942.	5548.	52.	** 1400.	721.	.71	15.	90.0	F	23.8	5.8
14	2	1320.	0.	0.	3840.	0.	0.	3616.	4400.	0.	** 1320.	721.	.82	21.	87.0	F	12.9	4.5
15	3	540.	1148.	1364.	4988.	1148.	1303.	4764.	4764.	836.	0.	0.	1.00	52.	30.8	E	14.5	2.3
16	2	1230.	0.	0.	3624.	0.	0.	3461.	4400.	0.	0.	0.	.79	61.	28.3	D	20.3	4.3
17	2	890.	480.	0.	4104.	480.	0.	3941.	4397.	3.	0.	0.	.90	58.	34.0	D	21.5	3.1
18	3	4840.	160.	676.	4264.	160.	650.	3908.	5552.	48.	* 4536.	193.	.70	17.	77.2	F	13.5	5.7
19	2	530.	0.	0.	3588.	0.	0.	3258.	3800.	0.	** 530.	193.	.86	23.	69.6	F	18.8	4.0
20	2	1040.	728.	0.	4316.	728.	0.	3986.	4364.	36.	** 1040.	193.	.91	28.	70.0	F	20.2	3.4
21	3	2810.	948.	1132.	5264.	948.	1060.	4934.	4934.	666.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	4132.	0.	0.	3873.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	412.	312.	4544.	412.	294.	4285.	5501.	99.	0.	0.	.78	62.	23.0	C	24.1	4.8
24	3	960.	0.	1820.	4232.	0.	1500.	3991.	5565.	35.	0.	0.	.72	62.	21.5	C	17.2	4.8
25	2	1400.	0.	2412.	2412.	0.	2275.	2275.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 30.	44.6	15.5	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	348. VEH-HRS	394. PASS-HRS	1954. VEH-HRS	2211. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	176. VEH-HRS	199. PASS-HRS	874. VEH-HRS	990. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	524. VEH-HRS	593. PASS-HRS	2859. VEH-HRS	3236. PASS-HRS
TOTAL TRAV DISTANCE =	10399. VEH-MI.	11772. PASS-MI.	84808. VEH-MI.	96002. PASS-MI.
AVERAGE SYSTEM SPEED =	20. MPH.		43. MPH.	
AVERAGE DENSITY =	45. VPMPL		33. VPMPL	
TOTAL FUEL =	739. GALLONS		5535. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		412. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	730.	175.88	66.61	1.02	6.29	1.10	8.41

```
QUEUE COLLISION IN SECTION  15 T2 =0.242
QUEUE COLLISION IN SECTION   9 T2 =0.108
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2892.	172.	2892.	2892.	172.	2892.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
2	2	1970.	0.	0.	2720.	0.	0.	2720.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
3	2	1830.	364.	204.	3084.	364.	204.	3084.	4100.	0.	0.	0.	.75	62.	25.0	C	13.7	4.6
4	2	2010.	0.	0.	2880.	0.	0.	2880.	4100.	0.	0.	0.	.70	62.	23.2	C	13.6	4.8
5	3	2445.	720.	416.	3600.	720.	416.	3600.	5451.	149.	0.	0.	.66	62.	19.4	C	13.6	4.8
6	2	1890.	0.	0.	3184.	0.	0.	3184.	4100.	0.	0.	0.	.78	61.	25.9	C	13.7	4.4
7	3	5320.	672.	672.	3856.	672.	672.	3589.	5600.	0.	* 1904.	267.	.64	31.	39.1	F	12.6	5.1
8	2	880.	0.	0.	3184.	0.	0.	2917.	3900.	0.	** 880.	267.	.75	21.	69.8	F	13.2	4.4
9	2	1125.	216.	0.	3400.	216.	0.	3133.	3900.	0.	** 1125.	683.	.80	27.	58.6	F	19.4	3.7
10	3	6320.	412.	376.	3812.	412.	417.	3545.	5594.	6.	** 6320.	683.	.63	12.	99.4	F	13.5	6.4
11	2	2050.	0.	0.	3436.	0.	0.	3128.	4100.	0.	** 2050.	683.	.76	17.	91.0	F	16.5	5.2
12	3	2560.	744.	0.	4180.	744.	0.	3872.	5544.	56.	** 2560.	683.	.70	14.	91.7	F	12.7	5.9
13	3	1400.	0.	312.	4180.	0.	340.	3872.	5544.	56.	** 1400.	683.	.70	14.	91.7	F	22.9	5.9
14	2	1320.	0.	0.	3868.	0.	0.	3245.	4400.	0.	** 1320.	970.	.74	19.	83.2	F	12.7	4.7
15	3	540.	1192.	1348.	5060.	1192.	1258.	4437.	4724.	876.	** 540.	287.	.94	50.	29.9	F	14.5	2.4
16	2	1230.	0.	0.	3712.	0.	0.	3179.	4400.	0.	** 1230.	287.	.72	30.	52.2	F	18.5	4.8
17	2	890.	504.	0.	4216.	504.	0.	3683.	4396.	4.	** 890.	287.	.84	27.	68.5	F	19.2	3.9
18	3	4840.	204.	608.	4420.	204.	574.	3887.	5554.	46.	** 4840.	287.	.70	14.	91.3	F	12.8	5.9
19	2	530.	0.	0.	3812.	0.	0.	3313.	3800.	0.	** 530.	287.	.87	25.	67.4	F	19.2	3.8
20	2	1040.	680.	0.	4492.	680.	0.	3993.	4365.	35.	** 1040.	287.	.91	29.	69.8	F	20.2	3.4
21	3	2810.	944.	1140.	5436.	944.	1036.	4937.	4937.	663.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	4296.	0.	0.	3901.	4400.	0.	0.	0.	.89	58.	33.4	D	18.4	3.2
23	3	2390.	444.	256.	4740.	444.	235.	4345.	5481.	119.	0.	0.	.79	62.	23.4	C	24.1	4.8
24	3	960.	0.	1880.	4484.	0.	1500.	4110.	5560.	40.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2604.	2604.	0.	2387.	2387.	3600.	0.	0.	0.	.66	62.	19.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 27.	49.6		15.0	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	388. VEH-HRS	439. PASS-HRS	2342. VEH-HRS	2651. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	190. VEH-HRS	215. PASS-HRS	1064. VEH-HRS	1204. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	578. VEH-HRS	654. PASS-HRS	3436. VEH-HRS	3890. PASS-HRS
TOTAL TRAV DISTANCE =	10351. VEH-MI.	11717. PASS-MI.	95159. VEH-MI.	107720. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		41. MPH.	
AVERAGE DENSITY =	50. VPMPL		34. VPMPL	
TOTAL FUEL =	762. GALLONS		6297. GALLONS	
TOTAL EMISSIONS =	59. KILOGRAMS		471. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	786.	189.60	71.81	1.10	6.78	1.18	9.07

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2892.	160.	2892.	2892.	160.	2892.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
2	2	1970.	0.	0.	2732.	0.	0.	2732.	4100.	0.	0.	0.	.67	62.	22.0	C	13.6	4.8
3	2	1830.	404.	268.	3136.	404.	268.	3136.	4100.	0.	0.	0.	.76	62.	25.5	C	13.7	4.5
4	2	2010.	0.	0.	2868.	0.	0.	2868.	4100.	0.	0.	0.	.70	62.	23.1	C	13.6	4.8
5	3	2445.	980.	424.	3848.	980.	424.	3848.	5363.	237.	0.	0.	.72	62.	20.7	C	13.6	4.8
6	2	1890.	0.	0.	3424.	0.	0.	3424.	4100.	0.	0.	0.	.84	60.	28.4	D	14.1	3.7
7	3	5320.	616.	664.	4040.	616.	664.	3408.	5600.	0.	* 5188.	632.	.61	15.	73.6	F	11.0	6.0
8	2	880.	0.	0.	3376.	0.	0.	2744.	3900.	0.	** 880.	632.	.70	14.	96.0	F	11.7	5.9
9	2	1125.	184.	0.	3560.	184.	0.	2928.	3900.	0.	** 1125.	632.	.75	17.	88.4	F	16.2	5.4
10	3	6320.	364.	388.	3924.	364.	388.	3292.	5595.	5.	** 6320.	632.	.59	10.	109.3	F	12.6	6.9
11	2	2050.	0.	0.	3536.	0.	0.	2904.	4100.	0.	** 2050.	632.	.71	15.	100.1	F	15.3	5.8
12	3	2560.	668.	0.	4204.	668.	0.	3572.	5552.	48.	** 2560.	632.	.64	12.	100.2	F	11.8	6.4
13	3	1400.	0.	292.	4204.	0.	292.	3572.	5552.	48.	** 1400.	632.	.64	12.	100.2	F	19.8	6.4
14	2	1320.	0.	0.	3912.	0.	0.	3280.	4400.	0.	** 1320.	632.	.75	16.	100.7	F	12.1	5.4
15	3	540.	1112.	1296.	5024.	1112.	1232.	4392.	4776.	824.	** 540.	384.	.92	29.	50.3	F	13.0	3.3
16	2	1230.	0.	0.	3728.	0.	0.	3160.	4400.	0.	** 1230.	384.	.72	15.	105.7	F	15.6	5.7
17	2	890.	580.	0.	4308.	580.	0.	3740.	4396.	4.	** 890.	384.	.85	23.	81.7	F	18.6	4.1
18	3	4840.	212.	572.	4520.	212.	549.	3952.	5551.	49.	** 4840.	384.	.71	15.	89.8	F	13.0	5.8
19	2	530.	0.	0.	3948.	0.	0.	3403.	3800.	0.	** 530.	384.	.90	27.	63.7	F	19.7	3.6
20	2	1040.	680.	0.	4628.	680.	0.	4083.	4367.	33.	** 1040.	284.	.94	31.	66.2	F	20.8	3.2
21	3	2810.	908.	1048.	5536.	908.	945.	4991.	4991.	609.	0.	0.	1.00	52.	32.3	E	30.3	2.3
22	2	1850.	0.	0.	4488.	0.	0.	4046.	4400.	0.	0.	0.	.92	57.	35.6	E	18.8	2.8
23	3	2390.	536.	240.	5024.	536.	219.	4582.	5457.	143.	0.	0.	.84	62.	24.6	C	24.1	4.8
24	3	960.	0.	1860.	4784.	0.	1500.	4364.	5548.	52.	0.	0.	.79	62.	23.5	C	17.2	4.8
25	2	1400.	0.	2924.	2924.	0.	2667.	2667.	3600.	0.	0.	0.	.74	62.	21.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 23.	57.3		14.5	5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	445. VEH-HRS	503. PASS-HRS	2786. VEH-HRS	3154. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	203. VEH-HRS	229. PASS-HRS	1267. VEH-HRS	1434. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	647. VEH-HRS	733. PASS-HRS	4084. VEH-HRS	4623. PASS-HRS
TOTAL TRAV DISTANCE =	10200. VEH-MI.	11546. PASS-MI.	105359. VEH-MI.	119266. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		38. MPH.	
AVERAGE DENSITY =	57. VPMPL		37. VPMPL	
TOTAL FUEL =	780. GALLONS		7077. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		532. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	835.	202.73	76.78	1.18	7.25	1.27	9.70

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2624.	140.	2624.	2624.	140.	2624.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2484.	0.	0.	2484.	4100.	0.	0.	0.	.61	62.	20.0	C	13.6	4.8
3	2	1830.	368.	300.	2852.	368.	300.	2852.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
4	2	2010.	0.	0.	2552.	0.	0.	2552.	4100.	0.	0.	0.	.62	62.	20.6	C	13.6	4.8
5	3	2445.	1140.	392.	3692.	1140.	392.	3411.	5369.	231.	* 348.	281.	.64	58.	19.5	F	13.5	4.8
6	2	1890.	0.	0.	3300.	0.	0.	3019.	4100.	0.	** 1890.	281.	.74	24.	63.3	F	12.3	4.9
7	3	5320.	588.	672.	3888.	588.	672.	3607.	5600.	0.	** 5320.	281.	.64	12.	100.9	F	10.2	6.4
8	2	880.	0.	0.	3216.	0.	0.	2935.	3900.	0.	** 880.	281.	.75	17.	88.2	F	12.2	5.3
9	2	1125.	152.	0.	3368.	152.	0.	3087.	3900.	0.	** 1125.	281.	.79	19.	82.0	F	17.2	4.8
10	3	6320.	396.	440.	3764.	396.	440.	3483.	5596.	4.	** 6320.	281.	.62	11.	104.2	F	13.2	6.6
11	2	2050.	0.	0.	3324.	0.	0.	3043.	4100.	0.	** 2050.	281.	.74	16.	94.4	F	16.0	5.5
12	3	2560.	624.	0.	3948.	624.	0.	3667.	5548.	52.	** 2560.	281.	.66	13.	97.5	F	12.1	6.3
13	3	1400.	0.	332.	3948.	0.	332.	3667.	5548.	52.	** 1400.	281.	.66	13.	97.5	F	20.7	6.3
14	2	1320.	0.	0.	3616.	0.	0.	3335.	4400.	0.	** 1320.	281.	.76	17.	98.5	F	12.2	5.3
15	3	540.	1028.	1396.	4644.	1028.	1396.	4363.	4880.	720.	** 540.	281.	.89	27.	54.8	F	12.6	3.6
16	2	1230.	0.	0.	3248.	0.	0.	2967.	4400.	0.	** 1230.	281.	.67	13.	113.6	F	14.3	6.2
17	2	890.	632.	0.	3880.	632.	0.	3599.	4398.	2.	** 890.	281.	.82	21.	87.6	F	17.9	4.5
18	3	4840.	172.	544.	4052.	172.	544.	3771.	5554.	46.	** 4840.	281.	.68	13.	94.8	F	12.4	6.1
19	2	530.	0.	0.	3508.	0.	0.	3227.	3800.	0.	** 530.	281.	.85	23.	70.9	F	18.6	4.1
20	2	1040.	768.	0.	4276.	768.	0.	3995.	4364.	36.	** 1040.	281.	.92	29.	69.6	F	20.3	3.4
21	3	2810.	940.	1144.	5216.	940.	1082.	4935.	4935.	665.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	4072.	0.	0.	3852.	4400.	0.	0.	0.	.88	59.	32.7	D	18.3	3.3
23	3	2390.	424.	176.	4496.	424.	167.	4276.	5491.	109.	0.	0.	.78	62.	23.0	C	24.1	4.8
24	3	960.	0.	1916.	4320.	0.	1500.	4109.	5561.	39.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2404.	2404.	0.	2287.	2287.	3600.	0.	0.	0.	.64	62.	18.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 21.	59.3		14.3	5.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	460. VEH-HRS	521. PASS-HRS	3246. VEH-HRS	3675. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	219. VEH-HRS	248. PASS-HRS	1486. VEH-HRS	1682. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	679. VEH-HRS	769. PASS-HRS	4763. VEH-HRS	5392. PASS-HRS
TOTAL TRAV DISTANCE =	9855. VEH-MI.	11156. PASS-MI.	115213. VEH-MI.	130421. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		35. MPH.	
AVERAGE DENSITY =	59. VPMPL		39. VPMPL	
TOTAL FUEL =	772. GALLONS		7849. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		594. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	916.	218.94	82.93	1.27	7.83	1.37	10.48

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2852.	176.	2852.	2852.	176.	2852.	4400.	0.	0.	0.	.65	62.	23.0	C	13.6	4.8
2	2	1970.	0.	0.	2676.	0.	0.	2676.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
3	2	1830.	356.	240.	3032.	356.	240.	3032.	4100.	0.	0.	0.	.74	62.	24.5	C	13.6	4.8
4	2	2010.	0.	0.	2792.	0.	0.	2792.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
5	3	2445.	908.	324.	3700.	908.	324.	3700.	5454.	146.	0.	0.	.68	53.	23.2	C	13.4	4.8
6	2	1890.	0.	0.	3376.	0.	0.	3462.	4100.	0.	* 1491.	-86.	.84	23.	75.6	F	12.4	4.2
7	3	5320.	572.	704.	3948.	572.	704.	4034.	5600.	0.	** 5320.	-86.	.72	15.	89.3	F	11.2	5.7
8	2	880.	0.	0.	3244.	0.	0.	3330.	3900.	0.	** 880.	-86.	.85	23.	72.0	F	13.4	4.1
9	2	1125.	164.	0.	3408.	164.	0.	3494.	3900.	0.	** 1125.	-86.	.90	27.	65.3	F	19.7	3.6
10	3	6320.	396.	420.	3804.	396.	420.	3890.	5595.	5.	** 6320.	-86.	.70	14.	93.1	F	14.9	6.0
11	2	2050.	0.	0.	3384.	0.	0.	3470.	4100.	0.	** 2050.	-86.	.85	23.	77.0	F	18.5	4.2
12	3	2560.	588.	0.	3972.	588.	0.	4058.	5540.	60.	** 2560.	-86.	.73	16.	86.5	F	13.3	5.6
13	3	1400.	0.	396.	3972.	0.	396.	4058.	5540.	60.	** 1400.	-86.	.73	16.	86.5	F	25.2	5.6
14	2	1320.	0.	0.	3576.	0.	0.	3662.	4400.	0.	** 1320.	-86.	.83	22.	85.1	F	13.0	4.3
15	3	540.	932.	1292.	4508.	932.	1292.	4594.	4936.	664.	** 540.	-86.	.93	30.	50.4	F	13.2	3.2
16	2	1230.	0.	0.	3216.	0.	0.	3302.	4400.	0.	** 1230.	-86.	.75	17.	99.9	F	16.2	5.4
17	2	890.	556.	0.	3772.	556.	0.	3858.	4399.	1.	** 890.	-86.	.88	25.	77.1	F	19.3	3.8
18	3	4840.	184.	656.	3956.	184.	656.	4042.	5553.	47.	** 4840.	-86.	.73	15.	87.4	F	13.2	5.6
19	2	530.	0.	0.	3300.	0.	0.	3386.	3800.	0.	** 530.	-86.	.89	26.	64.4	F	19.6	3.6
20	2	1040.	748.	0.	4048.	748.	0.	4134.	4364.	36.	** 1040.	-86.	.95	32.	64.0	F	21.1	3.1
21	3	2810.	880.	1160.	4928.	880.	1180.	5014.	5014.	586.	0.	0.	1.00	52.	32.4	E	30.3	2.3
22	2	1850.	0.	0.	3768.	0.	0.	3834.	4400.	0.	0.	0.	.87	59.	32.5	D	18.2	3.4
23	3	2390.	312.	196.	4080.	312.	199.	4146.	5525.	75.	0.	0.	.75	62.	22.3	C	24.1	4.8
24	3	960.	0.	1720.	3884.	0.	1500.	3947.	5577.	23.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2164.	2164.	0.	2199.	2199.	3600.	0.	0.	0.	.61	62.	17.7	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 25.	54.9		15.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	424. VEH-HRS	479. PASS-HRS	3670. VEH-HRS	4154. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	237. VEH-HRS	268. PASS-HRS	1722. VEH-HRS	1950. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	660. VEH-HRS	747. PASS-HRS	5423. VEH-HRS	6139. PASS-HRS
TOTAL TRAV DISTANCE =	10574. VEH-MI.	11970. PASS-MI.	125788. VEH-MI.	142392. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		34. MPH.	
AVERAGE DENSITY =	55. VPMPL		40. VPMPL	
TOTAL FUEL =	795. GALLONS		8645. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		656. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	978.	236.75	89.67	1.38	8.47	1.48	11.33

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3124.	148.	3124.	3124.	148.	3124.	4400.	0.	0.	0.	.71	62.	25.2	C	13.6	4.7
2	2	1970.	0.	0.	2976.	0.	0.	2976.	4100.	0.	0.	0.	.73	62.	24.0	C	13.6	4.8
3	2	1830.	304.	100.	3280.	304.	100.	3280.	4100.	0.	0.	0.	.80	61.	26.9	D	13.8	4.2
4	2	2010.	0.	0.	3180.	0.	0.	3180.	4100.	0.	0.	0.	.78	61.	25.9	C	13.7	4.4
5	3	2445.	684.	320.	3864.	684.	320.	3701.	5521.	79.	* 781.	163.	.67	42.	29.3	F	13.1	5.0
6	2	1890.	0.	0.	3544.	0.	0.	3381.	4100.	0.	** 1890.	163.	.82	21.	79.6	F	12.1	4.4
7	3	5320.	660.	744.	4204.	660.	744.	4041.	5600.	0.	** 5320.	163.	.72	15.	89.1	F	11.2	5.7
8	2	880.	0.	0.	3460.	0.	0.	3297.	3900.	0.	** 880.	163.	.85	22.	73.4	F	13.2	4.2
9	2	1125.	188.	0.	3648.	188.	0.	3485.	3900.	0.	** 1125.	163.	.89	27.	65.7	F	19.7	3.6
10	3	6320.	420.	352.	4068.	420.	352.	3905.	5594.	6.	** 6320.	163.	.70	14.	92.6	F	14.9	5.9
11	2	2050.	0.	0.	3716.	0.	0.	3553.	4100.	0.	** 2050.	163.	.87	24.	73.6	F	19.0	3.9
12	3	2560.	652.	0.	4368.	652.	0.	4205.	5536.	64.	** 2560.	163.	.76	17.	82.4	F	13.5	5.3
13	3	1400.	0.	420.	4368.	0.	420.	4205.	5536.	64.	** 1400.	163.	.76	17.	82.4	F	27.0	5.3
14	2	1320.	0.	0.	3948.	0.	0.	3785.	4400.	0.	** 1320.	163.	.86	24.	80.1	F	13.5	4.0
15	3	540.	820.	1204.	4768.	820.	1204.	4605.	4988.	612.	** 540.	163.	.92	30.	52.0	F	13.1	3.3
16	2	1230.	0.	0.	3564.	0.	0.	3401.	4400.	0.	** 1230.	163.	.77	18.	95.8	F	16.7	5.1
17	2	890.	496.	0.	4060.	496.	0.	3897.	4397.	3.	** 890.	163.	.89	26.	75.4	F	19.5	3.7
18	3	4840.	180.	628.	4240.	180.	628.	4077.	5554.	46.	** 4840.	163.	.73	16.	86.5	F	13.3	5.6
19	2	530.	0.	0.	3612.	0.	0.	3449.	3800.	0.	** 530.	163.	.91	28.	61.9	F	20.0	3.5
20	2	1040.	648.	0.	4260.	648.	0.	4097.	4367.	33.	** 1040.	163.	.94	31.	65.6	F	20.9	3.1
21	3	2810.	888.	1212.	5148.	888.	1173.	4985.	4985.	615.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3936.	0.	0.	3811.	4400.	0.	0.	0.	.87	59.	32.2	D	18.2	3.4
23	3	2390.	276.	140.	4212.	276.	136.	4087.	5529.	71.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1868.	4072.	0.	1500.	3951.	5579.	21.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2204.	2204.	0.	2139.	2139.	3600.	0.	0.	0.	.59	62.	17.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 26.	55.3	15.0	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	426. VEH-HRS	482. PASS-HRS	4096. VEH-HRS	4636. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	254. VEH-HRS	288. PASS-HRS	1977. VEH-HRS	2237. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	680. VEH-HRS	770. PASS-HRS	6103. VEH-HRS	6909. PASS-HRS
TOTAL TRAV DISTANCE =	10883. VEH-MI.	12319. PASS-MI.	136670. VEH-MI.	154711. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		33. MPH.	
AVERAGE DENSITY =	55. VPMPL		41. VPMPL	
TOTAL FUEL =	822. GALLONS		9466. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		719. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1056.	254.26	96.30	1.48	9.10	1.59	12.17

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2984.	160.	2984.	2984.	160.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	13.6	4.8
2	2	1970.	0.	0.	2824.	0.	0.	2824.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
3	2	1830.	300.	108.	3124.	300.	108.	3124.	4100.	0.	0.	0.	.76	62.	25.4	C	13.7	4.5
4	2	2010.	0.	0.	3016.	0.	0.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	13.6	4.8
5	3	2445.	672.	268.	3688.	672.	268.	3408.	5556.	44.	* 2231.	280.	.61	16.	70.0	F	11.1	5.9
6	2	1890.	0.	0.	3420.	0.	0.	3140.	4100.	0.	** 1890.	280.	.77	17.	90.5	F	11.5	5.2
7	3	5320.	616.	768.	4036.	616.	768.	3756.	5600.	0.	** 5320.	280.	.67	13.	96.9	F	10.5	6.2
8	2	880.	0.	0.	3268.	0.	0.	2988.	3900.	0.	** 880.	280.	.77	17.	86.0	F	12.3	5.2
9	2	1125.	212.	0.	3480.	212.	0.	3200.	3900.	0.	** 1125.	280.	.82	21.	77.4	F	18.0	4.5
10	3	6320.	504.	280.	3984.	504.	280.	3704.	5595.	5.	** 6320.	280.	.66	13.	98.1	F	14.0	6.3
11	2	2050.	0.	0.	3704.	0.	0.	3424.	4100.	0.	** 2050.	280.	.84	22.	78.9	F	18.3	4.3
12	3	2560.	636.	0.	4340.	636.	0.	4060.	5548.	52.	** 2560.	280.	.73	16.	86.8	F	13.3	5.6
13	3	1400.	0.	364.	4340.	0.	364.	4060.	5548.	52.	** 1400.	280.	.73	16.	86.8	F	25.2	5.6
14	2	1320.	0.	0.	3976.	0.	0.	3696.	4400.	0.	** 1320.	280.	.84	22.	83.8	F	13.2	4.2
15	3	540.	836.	1304.	4812.	836.	1304.	4532.	4992.	608.	** 540.	280.	.91	28.	54.1	F	12.8	3.5
16	2	1230.	0.	0.	3508.	0.	0.	3228.	4400.	0.	** 1230.	280.	.73	16.	102.9	F	15.9	5.6
17	2	890.	508.	0.	4016.	508.	0.	3736.	4398.	2.	** 890.	280.	.85	23.	82.0	F	18.6	4.1
18	3	4840.	192.	540.	4208.	192.	540.	3928.	5559.	41.	** 4840.	280.	.71	14.	90.8	F	12.9	5.9
19	2	530.	0.	0.	3668.	0.	0.	3388.	3800.	0.	** 530.	280.	.89	26.	64.3	F	19.6	3.6
20	2	1040.	656.	0.	4324.	656.	0.	4044.	4364.	36.	** 1040.	280.	.93	30.	67.6	F	20.6	3.2
21	3	2810.	920.	1240.	5244.	920.	1174.	4964.	4964.	636.	0.	0.	1.00	52.	32.1	E	30.3	2.3
22	2	1850.	0.	0.	4004.	0.	0.	3790.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	312.	180.	4316.	312.	171.	4102.	5522.	78.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	1752.	4136.	0.	1500.	3931.	5574.	26.	0.	0.	.71	62.	21.1	C	17.2	4.8
25	2	1400.	0.	2384.	2384.	0.	2266.	2266.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 23. 59.6 14.5 5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	462. VEH-HRS	523. PASS-HRS	4557. VEH-HRS	5159. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	269. VEH-HRS	305. PASS-HRS	2246. VEH-HRS	2542. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	731. VEH-HRS	827. PASS-HRS	6834. VEH-HRS	7736. PASS-HRS
TOTAL TRAV DISTANCE =	10437. VEH-MI.	11814. PASS-MI.	147107. VEH-MI.	166525. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		32. MPH.	
AVERAGE DENSITY =	60. VPMPL		43. VPMPL	
TOTAL FUEL =	821. GALLONS		10287. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		784. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1097.	269.20	101.96	1.57	9.63	1.68	12.88

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2768.	164.	2768.	2768.	164.	2768.	4400.	0.	0.	0.	.63	62.	22.3	C	13.6	4.8
2	2	1970.	0.	0.	2604.	0.	0.	2604.	4100.	0.	0.	0.	.64	62.	21.0	C	13.6	4.8
3	2	1830.	348.	112.	2952.	348.	112.	2952.	4100.	0.	0.	0.	.72	62.	23.8	C	13.6	4.8
4	2	2010.	0.	0.	2840.	0.	0.	2727.	4100.	0.	* 569.	113.	.67	46.	29.5	F	13.2	4.9
5	3	2445.	692.	428.	3532.	692.	428.	3419.	5462.	138.	** 2445.	113.	.63	11.	99.8	F	10.1	6.5
6	2	1890.	0.	0.	3104.	0.	0.	2991.	4100.	0.	** 1890.	113.	.73	15.	96.5	F	11.3	5.6
7	3	5320.	596.	592.	3700.	596.	592.	3587.	5600.	0.	** 5320.	113.	.64	12.	101.5	F	10.2	6.5
8	2	880.	0.	0.	3108.	0.	0.	2995.	3900.	0.	** 880.	113.	.77	17.	85.7	F	12.3	5.2
9	2	1125.	228.	0.	3336.	228.	0.	3223.	3900.	0.	** 1125.	113.	.83	21.	76.4	F	18.1	4.4
10	3	6320.	564.	256.	3900.	564.	256.	3787.	5595.	5.	** 6320.	113.	.68	13.	95.9	F	14.3	6.1
11	2	2050.	0.	0.	3644.	0.	0.	3531.	4100.	0.	** 2050.	113.	.86	24.	74.5	F	18.9	4.0
12	3	2560.	556.	0.	4200.	556.	0.	4087.	5540.	60.	** 2560.	113.	.74	16.	85.7	F	13.3	5.5
13	3	1400.	0.	440.	4200.	0.	440.	4087.	5540.	60.	** 1400.	113.	.74	16.	85.7	F	25.5	5.5
14	2	1320.	0.	0.	3760.	0.	0.	3647.	4400.	0.	** 1320.	113.	.83	21.	85.7	F	13.0	4.4
15	3	540.	860.	1368.	4620.	860.	1368.	4507.	4996.	604.	** 540.	113.	.90	27.	54.9	F	12.7	3.5
16	2	1230.	0.	0.	3252.	0.	0.	3139.	4400.	0.	** 1230.	113.	.71	15.	106.5	F	15.4	5.8
17	2	890.	556.	0.	3808.	556.	0.	3695.	4399.	1.	** 890.	113.	.84	22.	83.7	F	18.4	4.2
18	3	4840.	240.	624.	4048.	240.	624.	3935.	5557.	43.	** 4840.	113.	.71	14.	90.5	F	12.9	5.8
19	2	530.	0.	0.	3424.	0.	0.	3311.	3800.	0.	** 530.	113.	.87	25.	67.5	F	19.2	3.8
20	2	1040.	692.	0.	4116.	692.	0.	4003.	4364.	36.	** 1040.	113.	.92	29.	69.3	F	20.3	3.4
21	3	2810.	928.	1308.	5044.	928.	1279.	4931.	4931.	669.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	3736.	0.	0.	3653.	4400.	0.	0.	0.	.83	60.	30.3	D	17.9	3.8
23	3	2390.	276.	180.	4012.	276.	176.	3929.	5538.	62.	0.	0.	.71	62.	21.1	C	24.1	4.8
24	3	960.	0.	1700.	3832.	0.	1500.	3752.	5582.	18.	0.	0.	.67	62.	20.2	C	17.2	4.8
25	2	1400.	0.	2132.	2132.	0.	2088.	2088.	3600.	0.	0.	0.	.58	62.	16.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	60.7		14.4	5.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	471. VEH-HRS	533. PASS-HRS	5028. VEH-HRS	5692. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	280. VEH-HRS	316. PASS-HRS	2525. VEH-HRS	2859. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	750. VEH-HRS	849. PASS-HRS	7584. VEH-HRS	8586. PASS-HRS
TOTAL TRAV DISTANCE =	10158. VEH-MI.	11499. PASS-MI.	157265. VEH-MI.	178024. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		31. MPH.	
AVERAGE DENSITY =	61. VPMPL		44. VPMPL	
TOTAL FUEL =	810. GALLONS		11096. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		849. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1139.	279.50	105.86	1.63	10.00	1.75	13.37

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2340.	104.	2340.	2340.	104.	2340.	4400.	0.	0.	0.	.53	62.	18.9	C	13.6	4.8
2	2	1970.	0.	0.	2236.	0.	0.	2236.	4100.	0.	0.	0.	.55	62.	18.0	C	13.6	4.8
3	2	1830.	308.	124.	2544.	308.	124.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
4	2	2010.	0.	0.	2420.	0.	0.	2420.	4100.	0.	0.	0.	.59	58.	20.9	C	13.5	4.8
5	3	2445.	568.	484.	2988.	568.	484.	3520.	5502.	98.	0.	-532.	.64	17.	67.9	F	11.3	5.8
6	2	1890.	0.	0.	2504.	0.	0.	3036.	4100.	0.	** 1890.	-532.	.74	16.	94.7	F	11.3	5.5
7	3	5320.	556.	540.	3060.	556.	540.	3592.	5600.	0.	** 5320.	-532.	.64	12.	101.4	F	10.2	6.4
8	2	880.	0.	0.	2520.	0.	0.	3052.	3900.	0.	** 880.	-532.	.78	18.	83.4	F	12.4	5.0
9	2	1125.	192.	0.	2712.	192.	0.	3244.	3900.	0.	** 1125.	-532.	.83	21.	75.6	F	18.2	4.3
10	3	6320.	500.	256.	3212.	500.	256.	3744.	5599.	1.	** 6320.	-532.	.67	13.	97.2	F	14.1	6.2
11	2	2050.	0.	0.	2956.	0.	0.	3488.	4100.	0.	** 2050.	-532.	.85	23.	76.3	F	18.6	4.1
12	3	2560.	560.	0.	3516.	560.	0.	4048.	5542.	58.	** 2560.	-532.	.73	16.	86.9	F	13.3	5.6
13	3	1400.	0.	400.	3516.	0.	400.	4048.	5542.	58.	** 1400.	-532.	.73	16.	86.9	F	25.1	5.6
14	2	1320.	0.	0.	3116.	0.	0.	3648.	4400.	0.	** 1320.	-532.	.83	21.	85.7	F	13.0	4.4
15	3	540.	904.	1260.	4020.	904.	1260.	4552.	4980.	620.	** 540.	-532.	.91	29.	53.2	F	12.9	3.4
16	2	1230.	0.	0.	2760.	0.	0.	3292.	4400.	0.	** 1230.	-532.	.75	16.	100.3	F	16.2	5.4
17	2	890.	644.	0.	3404.	644.	0.	3936.	4400.	0.	** 890.	-532.	.89	27.	74.0	F	19.7	3.6
18	3	4840.	276.	664.	3680.	276.	664.	4212.	5566.	34.	** 4840.	-532.	.76	17.	83.3	F	13.5	5.3
19	2	530.	0.	0.	3016.	0.	0.	3548.	3800.	0.	** 530.	-532.	.93	31.	57.8	F	20.8	3.2
20	2	1040.	608.	0.	3624.	608.	0.	4156.	4376.	24.	** 1040.	-532.	.95	33.	63.7	F	21.1	3.0
21	3	2810.	892.	1208.	4516.	892.	1350.	5048.	5048.	552.	0.	0.	1.00	52.	32.6	E	30.3	2.3
22	2	1850.	0.	0.	3308.	0.	0.	3698.	4400.	0.	0.	0.	.84	60.	30.8	D	18.0	3.6
23	3	2390.	308.	176.	3616.	308.	195.	4006.	5543.	57.	0.	0.	.72	62.	21.5	C	24.1	4.8
24	3	960.	0.	1556.	3440.	0.	1500.	3811.	5589.	11.	0.	0.	.68	62.	20.5	C	17.2	4.8
25	2	1400.	0.	1884.	1884.	0.	2087.	2087.	3600.	0.	0.	0.	.58	62.	16.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	57.4		14.7	5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	445. VEH-HRS	504. PASS-HRS	5473. VEH-HRS	6196. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	292. VEH-HRS	330. PASS-HRS	2817. VEH-HRS	3189. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	737. VEH-HRS	834. PASS-HRS	8321. VEH-HRS	9420. PASS-HRS
TOTAL TRAV DISTANCE =	9886. VEH-MI.	11191. PASS-MI.	167151. VEH-MI.	189215. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		31. MPH.	
AVERAGE DENSITY =	57. VPMPL		45. VPMPL	
TOTAL FUEL =	784. GALLONS		11881. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		912. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1195.	291.64	110.46	1.70	10.44	1.82	13.95

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2244.	80.	2244.	2244.	80.	2244.	4400.	0.	0.	0.	.51	62.	18.1	C	13.6	4.8
2	2	1970.	0.	0.	2164.	0.	0.	2164.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
3	2	1830.	332.	140.	2496.	332.	140.	2496.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
4	2	2010.	0.	0.	2356.	0.	0.	2356.	4100.	0.	0.	0.	.57	62.	19.0	C	13.6	4.8
5	3	2445.	452.	352.	2808.	452.	352.	2808.	5600.	0.	0.	0.	.50	62.	15.1	B	13.6	4.8
6	2	1890.	0.	0.	2456.	0.	0.	2456.	4100.	0.	0.	0.	.60	26.	48.0	F	12.3	5.3
7	3	5320.	576.	496.	3032.	576.	496.	3369.	5600.	0.	* 4865.	-337.	.60	11.	106.5	F	9.9	6.7
8	2	880.	0.	0.	2536.	0.	0.	2873.	3900.	0.	** 880.	-337.	.74	16.	90.7	F	12.1	5.5
9	2	1125.	192.	0.	2728.	192.	0.	3065.	3900.	0.	** 1125.	-337.	.79	18.	82.9	F	17.1	4.9
10	3	6320.	552.	304.	3280.	552.	304.	3617.	5600.	0.	** 6320.	-337.	.65	12.	100.7	F	13.6	6.4
11	2	2050.	0.	0.	2976.	0.	0.	3313.	4100.	0.	** 2050.	-337.	.81	20.	83.4	F	17.7	4.6
12	3	2560.	540.	0.	3516.	540.	0.	3853.	5546.	54.	** 2560.	-337.	.69	14.	92.3	F	12.6	6.0
13	3	1400.	0.	388.	3516.	0.	388.	3853.	5546.	54.	** 1400.	-337.	.69	14.	92.3	F	22.7	6.0
14	2	1320.	0.	0.	3128.	0.	0.	3465.	4400.	0.	** 1320.	-337.	.79	19.	93.2	F	12.5	4.9
15	3	540.	880.	1124.	4008.	880.	1124.	4345.	4968.	632.	** 540.	-337.	.87	25.	58.4	F	12.3	3.8
16	2	1230.	0.	0.	2884.	0.	0.	3221.	4400.	0.	** 1230.	-337.	.73	16.	103.2	F	15.9	5.6
17	2	890.	660.	0.	3544.	660.	0.	3881.	4400.	0.	** 890.	-337.	.88	25.	76.2	F	19.4	3.7
18	3	4840.	244.	604.	3788.	244.	604.	4125.	5560.	40.	** 4840.	-337.	.74	16.	85.4	F	13.4	5.5
19	2	530.	0.	0.	3184.	0.	0.	3521.	3800.	0.	** 530.	-337.	.93	30.	58.9	F	20.6	3.2
20	2	1040.	716.	0.	3900.	716.	0.	4237.	4368.	32.	** 1040.	-337.	.97	35.	60.0	F	21.7	2.8
21	3	2810.	820.	1184.	4720.	820.	1269.	5057.	5057.	543.	0.	0.	1.00	52.	32.7	E	30.3	2.3
22	2	1850.	0.	0.	3536.	0.	0.	3788.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	276.	120.	3812.	276.	128.	4064.	5543.	57.	0.	0.	.73	62.	21.9	C	24.1	4.8
24	3	960.	0.	1816.	3692.	0.	1500.	3936.	5587.	13.	0.	0.	.70	62.	21.2	C	17.2	4.8
25	2	1400.	0.	1876.	1876.	0.	2000.	2000.	3600.	0.	0.	0.	.56	62.	16.1	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	55.8		14.6	5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	435. VEH-HRS	493. PASS-HRS	5909. VEH-HRS	6689. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	312. VEH-HRS	353. PASS-HRS	3129. VEH-HRS	3542. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	747. VEH-HRS	846. PASS-HRS	9069. VEH-HRS	10266. PASS-HRS
TOTAL TRAV DISTANCE =	9523. VEH-MI.	10780. PASS-MI.	176674. VEH-MI.	199995. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		30. MPH.	
AVERAGE DENSITY =	56. VPMPL		45. VPMPL	
TOTAL FUEL =	769. GALLONS		12649. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		975. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1304.	312.28	118.27	1.82	11.17	1.95	14.94

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2028.	88.	2028.	2028.	88.	2028.	4400.	0.	0.	0.	.46	62.	16.4	B	13.6	4.8
2	2	1970.	0.	0.	1940.	0.	0.	1940.	4100.	0.	0.	0.	.47	62.	15.6	B	13.6	4.8
3	2	1830.	336.	56.	2276.	336.	56.	2276.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
4	2	2010.	0.	0.	2220.	0.	0.	2220.	4100.	0.	0.	0.	.54	62.	17.9	B	13.6	4.8
5	3	2445.	632.	324.	2852.	632.	324.	2852.	5575.	25.	0.	0.	.51	62.	15.3	B	13.6	4.8
6	2	1890.	0.	0.	2528.	0.	0.	2528.	4100.	0.	0.	0.	.62	62.	20.4	C	13.6	4.8
7	3	5320.	536.	616.	3064.	536.	616.	3445.	5600.	0.	* 2980.	-381.	.62	14.	84.5	F	10.6	6.2
8	2	880.	0.	0.	2448.	0.	0.	2829.	3900.	0.	** 880.	-381.	.73	15.	92.5	F	12.0	5.7
9	2	1125.	192.	0.	2640.	192.	0.	3021.	3900.	0.	** 1125.	-381.	.77	18.	84.7	F	16.8	5.1
10	3	6320.	600.	296.	3240.	600.	296.	3621.	5600.	0.	** 6320.	-381.	.65	12.	100.6	F	13.6	6.4
11	2	2050.	0.	0.	2944.	0.	0.	3325.	4100.	0.	** 2050.	-381.	.81	20.	82.9	F	17.8	4.6
12	3	2560.	560.	0.	3504.	560.	0.	3885.	5542.	58.	** 2560.	-381.	.70	14.	91.3	F	12.8	5.9
13	3	1400.	0.	396.	3504.	0.	396.	3885.	5542.	58.	** 1400.	-381.	.70	14.	91.3	F	23.1	5.9
14	2	1320.	0.	0.	3108.	0.	0.	3489.	4400.	0.	** 1320.	-381.	.79	19.	92.2	F	12.5	4.8
15	3	540.	792.	1000.	3900.	792.	1000.	4281.	5012.	588.	** 540.	-381.	.85	23.	61.7	F	12.0	4.1
16	2	1230.	0.	0.	2900.	0.	0.	3281.	4400.	0.	** 1230.	-381.	.75	16.	100.7	F	16.1	5.4
17	2	890.	660.	0.	3560.	660.	0.	3941.	4400.	0.	** 890.	-381.	.90	27.	73.8	F	19.7	3.6
18	3	4840.	244.	624.	3804.	244.	624.	4185.	5559.	41.	** 4840.	-381.	.75	17.	83.7	F	13.5	5.3
19	2	530.	0.	0.	3180.	0.	0.	3561.	3800.	0.	** 530.	-381.	.94	31.	57.3	F	20.8	3.1
20	2	1040.	688.	0.	3868.	688.	0.	4249.	4369.	31.	** 1040.	-381.	.97	36.	59.5	F	21.7	2.8
21	3	2810.	836.	1120.	4704.	836.	1211.	5085.	5085.	515.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	3584.	0.	0.	3874.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	292.	120.	3876.	292.	129.	4166.	5537.	63.	0.	0.	.75	62.	22.4	C	24.1	4.8
24	3	960.	0.	1780.	3756.	0.	1500.	4037.	5582.	18.	0.	0.	.72	62.	21.7	C	17.2	4.8
25	2	1400.	0.	1976.	1976.	0.	2124.	2124.	3600.	0.	0.	0.	.59	62.	17.1	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 23.	52.4		14.9	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	407. VEH-HRS	461. PASS-HRS	6316. VEH-HRS	7149. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	339. VEH-HRS	384. PASS-HRS	3468. VEH-HRS	3926. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	746. VEH-HRS	844. PASS-HRS	9815. VEH-HRS	11110. PASS-HRS
TOTAL TRAV DISTANCE =	9394. VEH-MI.	10635. PASS-MI.	186068. VEH-MI.	210629. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		29. MPH.	
AVERAGE DENSITY =	52. VPMPL		46. VPMPL	
TOTAL FUEL =	758. GALLONS		13408. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		1038. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1407.	338.82	128.33	1.97	12.12	2.12	16.21

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2140.	104.	2140.	2140.	104.	2140.	4400.	0.	0.	0.	.49	62.	17.3	B	13.6	4.8
2	2	1970.	0.	0.	2036.	0.	0.	2036.	4100.	0.	0.	0.	.50	62.	16.4	B	13.6	4.8
3	2	1830.	408.	72.	2444.	408.	72.	2444.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
4	2	2010.	0.	0.	2372.	0.	0.	2372.	4100.	0.	0.	0.	.58	62.	19.1	C	13.6	4.8
5	3	2445.	524.	304.	2896.	524.	304.	2896.	5600.	0.	0.	0.	.52	62.	15.6	B	13.6	4.8
6	2	1890.	0.	0.	2592.	0.	0.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
7	3	5320.	608.	676.	3200.	608.	676.	3617.	5600.	0.	* 780.	-417.	.65	24.	50.5	F	12.1	5.4
8	2	880.	0.	0.	2524.	0.	0.	2941.	3900.	0.	** 880.	-417.	.75	17.	87.9	F	12.2	5.3
9	2	1125.	200.	0.	2724.	200.	0.	3141.	3900.	0.	** 1125.	-417.	.81	20.	79.7	F	17.6	4.7
10	3	6320.	504.	324.	3228.	504.	324.	3645.	5600.	0.	** 6320.	-417.	.65	12.	99.9	F	13.7	6.4
11	2	2050.	0.	0.	2904.	0.	0.	3321.	4100.	0.	** 2050.	-417.	.81	20.	83.1	F	17.8	4.6
12	3	2560.	720.	0.	3624.	720.	0.	4041.	5528.	72.	** 2560.	-417.	.73	16.	86.6	F	13.3	5.6
13	3	1400.	0.	396.	3624.	0.	396.	4041.	5528.	72.	** 1400.	-417.	.73	16.	86.6	F	25.1	5.6
14	2	1320.	0.	0.	3228.	0.	0.	3645.	4400.	0.	** 1320.	-417.	.83	21.	85.8	F	13.0	4.4
15	3	540.	768.	1208.	3996.	768.	1208.	4413.	5064.	536.	** 540.	-417.	.87	25.	59.9	F	12.3	3.8
16	2	1230.	0.	0.	2788.	0.	0.	3205.	4400.	0.	** 1230.	-417.	.73	15.	103.8	F	15.8	5.6
17	2	890.	660.	0.	3448.	660.	0.	3865.	4400.	0.	** 890.	-417.	.88	25.	76.8	F	19.3	3.8
18	3	4840.	264.	668.	3712.	264.	668.	4129.	5559.	41.	** 4840.	-417.	.74	16.	85.3	F	13.4	5.5
19	2	530.	0.	0.	3044.	0.	0.	3461.	3800.	0.	** 530.	-417.	.91	28.	61.3	F	20.1	3.4
20	2	1040.	660.	0.	3704.	660.	0.	4121.	4372.	28.	** 1040.	-417.	.94	32.	64.9	F	21.0	3.1
21	3	2810.	908.	1192.	4612.	908.	1300.	5029.	5029.	571.	0.	0.	1.00	52.	32.5	E	30.3	2.3
22	2	1850.	0.	0.	3420.	0.	0.	3729.	4400.	0.	0.	0.	.85	60.	31.2	D	18.0	3.6
23	3	2390.	264.	160.	3684.	264.	174.	3993.	5548.	52.	0.	0.	.72	62.	21.5	C	24.1	4.8
24	3	960.	0.	1552.	3524.	0.	1500.	3820.	5587.	13.	0.	0.	.68	62.	20.5	C	17.2	4.8
25	2	1400.	0.	1972.	1972.	0.	2138.	2138.	3600.	0.	0.	0.	.59	62.	17.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 25.	49.4		15.1	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	379. VEH-HRS	429. PASS-HRS	6695. VEH-HRS	7578. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	357. VEH-HRS	405. PASS-HRS	3825. VEH-HRS	4330. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	736. VEH-HRS	833. PASS-HRS	10551. VEH-HRS	11944. PASS-HRS
TOTAL TRAV DISTANCE =	9495. VEH-MI.	10748. PASS-MI.	195564. VEH-MI.	221378. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		29. MPH.	
AVERAGE DENSITY =	49. VPMPL		46. VPMPL	
TOTAL FUEL =	762. GALLONS		14170. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		1101. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1452.	357.42	135.38	2.08	12.79	2.23	17.10

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1664.	84.	1664.	1664.	84.	1664.	4400.	0.	0.	0.	.38	62.	13.4	B	13.6	4.8
2	2	1970.	0.	0.	1580.	0.	0.	1580.	4100.	0.	0.	0.	.39	62.	12.7	B	13.6	4.8
3	2	1830.	380.	64.	1960.	380.	64.	1960.	4100.	0.	0.	0.	.48	62.	15.8	B	13.6	4.8
4	2	2010.	0.	0.	1896.	0.	0.	1896.	4100.	0.	0.	0.	.46	62.	15.3	B	13.6	4.8
5	3	2445.	528.	296.	2424.	528.	296.	2424.	5600.	0.	0.	0.	.43	62.	13.0	B	13.6	4.8
6	2	1890.	0.	0.	2128.	0.	0.	2128.	4100.	0.	0.	0.	.52	62.	17.2	B	13.6	4.8
7	3	5320.	644.	552.	2772.	644.	552.	2772.	5600.	0.	0.	0.	.49	56.	16.5	B	13.5	4.8
8	2	880.	0.	0.	2220.	0.	0.	2220.	3900.	0.	0.	0.	.57	29.	38.7	E	13.6	5.1
9	2	1125.	228.	0.	2448.	228.	0.	2448.	3900.	0.	0.	0.	.63	27.	44.8	E	18.3	4.8
10	3	6320.	604.	316.	3052.	604.	316.	3687.	5600.	0.	* 4889.	-635.	.66	13.	95.6	F	14.1	6.2
11	2	2050.	0.	0.	2736.	0.	0.	3371.	4100.	0.	** 2050.	-635.	.82	21.	81.0	F	18.0	4.5
12	3	2560.	912.	0.	3648.	912.	0.	4283.	5518.	82.	** 2560.	-635.	.78	18.	79.6	F	13.7	5.1
13	3	1400.	0.	380.	3648.	0.	380.	4283.	5518.	82.	** 1400.	-635.	.78	18.	79.6	F	28.3	5.1
14	2	1320.	0.	0.	3268.	0.	0.	3903.	4400.	0.	** 1320.	-635.	.89	26.	75.3	F	13.9	3.7
15	3	540.	772.	1196.	4040.	772.	1196.	4675.	5056.	544.	** 540.	-635.	.92	30.	52.5	F	13.1	3.3
16	2	1230.	0.	0.	2844.	0.	0.	3479.	4400.	0.	** 1230.	-635.	.79	19.	92.6	F	17.2	4.9
17	2	890.	644.	0.	3488.	644.	0.	4123.	4400.	0.	** 890.	-635.	.94	31.	66.3	F	20.8	3.1
18	3	4840.	276.	624.	3764.	276.	624.	4399.	5559.	41.	** 4840.	-635.	.79	19.	77.9	F	13.9	4.9
19	2	530.	0.	0.	3140.	0.	0.	3775.	3800.	0.	** 530.	-635.	.99	39.	48.5	F	22.1	2.6
20	2	1040.	536.	0.	3676.	536.	0.	4311.	4379.	21.	** 1040.	-635.	.98	37.	57.5	F	21.9	2.7
21	3	2810.	852.	1016.	4528.	852.	1158.	5163.	5163.	437.	0.	0.	1.00	52.	33.4	E	30.3	2.3
22	2	1850.	0.	0.	3512.	0.	0.	4004.	4400.	0.	0.	0.	.91	57.	34.9	D	18.7	3.0
23	3	2390.	296.	148.	3808.	296.	167.	4300.	5538.	62.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1388.	3660.	0.	1500.	4133.	5580.	20.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2272.	2272.	0.	2565.	2565.	3600.	0.	0.	0.	.71	62.	20.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 28.	41.7	15.9	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	324. VEH-HRS	366. PASS-HRS	7018. VEH-HRS	7945. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	365. VEH-HRS	413. PASS-HRS	4191. VEH-HRS	4744. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	689. VEH-HRS	780. PASS-HRS	11240. VEH-HRS	12724. PASS-HRS
TOTAL TRAV DISTANCE =	9096. VEH-MI.	10297. PASS-MI.	204659. VEH-MI.	231674. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		29. MPH.	
AVERAGE DENSITY =	42. VPMPL		46. VPMPL	
TOTAL FUEL =	710. GALLONS		14880. GALLONS	
TOTAL EMISSIONS =	59. KILOGRAMS		1160. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1469.	365.23	138.33	2.12	13.07	2.28	17.47

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2464.	64.	2464.	2464.	64.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
2	2	1970.	0.	0.	2400.	0.	0.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
3	2	1830.	400.	92.	2800.	400.	92.	2800.	4100.	0.	0.	0.	.68	62.	22.6	C	13.6	4.8
4	2	2010.	0.	0.	2708.	0.	0.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	13.6	4.8
5	3	2445.	536.	380.	3244.	536.	380.	3244.	5584.	16.	0.	0.	.58	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	2864.	0.	0.	2864.	4100.	0.	0.	0.	.70	62.	23.1	C	13.6	4.8
7	3	5320.	612.	556.	3476.	612.	556.	3476.	5600.	0.	0.	0.	.62	62.	18.7	C	13.6	4.8
8	2	880.	0.	0.	2920.	0.	0.	2920.	3900.	0.	0.	0.	.75	62.	23.5	C	14.9	4.8
9	2	1125.	228.	0.	3148.	228.	0.	3148.	3900.	0.	0.	0.	.81	61.	25.9	C	20.5	4.1
10	3	6320.	568.	268.	3716.	568.	268.	3548.	5597.	3.	* 5787.	168.	.63	13.	89.0	F	14.1	6.2
11	2	2050.	0.	0.	3448.	0.	0.	3280.	4100.	0.	** 2050.	168.	.80	19.	84.8	F	17.5	4.7
12	3	2560.	796.	0.	4244.	796.	0.	4076.	5520.	80.	** 2560.	168.	.74	16.	85.3	F	13.3	5.5
13	3	1400.	0.	424.	4244.	0.	424.	4076.	5520.	80.	** 1400.	168.	.74	16.	85.3	F	25.6	5.5
14	2	1320.	0.	0.	3820.	0.	0.	3652.	4400.	0.	** 1320.	168.	.83	21.	85.6	F	13.0	4.4
15	3	540.	848.	1204.	4668.	848.	1204.	4500.	4972.	628.	** 540.	168.	.91	28.	54.3	F	12.8	3.5
16	2	1230.	0.	0.	3464.	0.	0.	3296.	4400.	0.	** 1230.	168.	.75	16.	100.1	F	16.2	5.4
17	2	890.	716.	0.	4180.	716.	0.	4012.	4396.	4.	** 890.	168.	.91	28.	70.7	F	20.2	3.4
18	3	4840.	264.	708.	4444.	264.	708.	4276.	5531.	69.	** 4840.	168.	.77	18.	80.3	F	13.7	5.1
19	2	530.	0.	0.	3736.	0.	0.	3568.	3800.	0.	** 530.	168.	.94	31.	57.0	F	20.9	3.1
20	2	1040.	560.	0.	4296.	560.	0.	4128.	4373.	27.	** 1040.	168.	.94	32.	64.7	F	21.0	3.1
21	3	2810.	892.	1072.	5188.	892.	1037.	5020.	5020.	580.	0.	0.	1.00	52.	32.5	E	30.3	2.3
22	2	1850.	0.	0.	4116.	0.	0.	3983.	4400.	0.	0.	0.	.91	58.	34.6	D	18.6	3.0
23	3	2390.	272.	128.	4388.	272.	124.	4255.	5532.	68.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1588.	4260.	0.	1500.	4130.	5576.	24.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2672.	2672.	0.	2591.	2591.	3600.	0.	0.	0.	.72	62.	20.9	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 30.		44.2	15.5	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	339. VEH-HRS	384. PASS-HRS	7358. VEH-HRS	8329. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	369. VEH-HRS	417. PASS-HRS	4559. VEH-HRS	5161. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	708. VEH-HRS	801. PASS-HRS	11948. VEH-HRS	13525. PASS-HRS
TOTAL TRAV DISTANCE =	10013. VEH-MI.	11334. PASS-MI.	214672. VEH-MI.	243009. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		29. MPH.	
AVERAGE DENSITY =	44. VPMPL		46. VPMPL	
TOTAL FUEL =	785. GALLONS		15665. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1225. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1479.	368.58	139.60	2.14	13.19	2.30	17.63

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2264.	48.	2264.	2264.	48.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	13.6	4.8
2	2	1970.	0.	0.	2216.	0.	0.	2216.	4100.	0.	0.	0.	.54	62.	17.9	B	13.6	4.8
3	2	1830.	476.	64.	2692.	476.	64.	2692.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
4	2	2010.	0.	0.	2628.	0.	0.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
5	3	2445.	612.	344.	3240.	612.	344.	3240.	5558.	42.	0.	0.	.58	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	2896.	0.	0.	2896.	4100.	0.	0.	0.	.71	62.	23.4	C	13.6	4.8
7	3	5320.	580.	488.	3476.	580.	488.	3476.	5600.	0.	0.	0.	.62	62.	18.7	C	13.6	4.8
8	2	880.	0.	0.	2988.	0.	0.	2714.	3900.	0.	* 588.	274.	.70	50.	27.4	F	14.6	4.9
9	2	1125.	212.	0.	3200.	212.	0.	2926.	3900.	0.	** 1125.	274.	.75	29.	50.5	F	18.6	4.5
10	3	6320.	528.	288.	3728.	528.	288.	3454.	5596.	4.	** 6320.	274.	.62	11.	103.5	F	13.1	6.6
11	2	2050.	0.	0.	3440.	0.	0.	3166.	4100.	0.	** 2050.	274.	.77	18.	89.4	F	16.7	5.1
12	3	2560.	624.	0.	4064.	624.	0.	3790.	5540.	60.	** 2560.	274.	.68	13.	93.8	F	12.5	6.1
13	3	1400.	0.	400.	4064.	0.	400.	3790.	5540.	60.	** 1400.	274.	.68	13.	93.8	F	22.0	6.1
14	2	1320.	0.	0.	3664.	0.	0.	3390.	4400.	0.	** 1320.	274.	.77	18.	96.3	F	12.3	5.1
15	3	540.	884.	1156.	4548.	884.	1156.	4274.	4940.	660.	** 540.	274.	.87	24.	59.3	F	12.2	3.9
16	2	1230.	0.	0.	3392.	0.	0.	3118.	4400.	0.	** 1230.	274.	.71	15.	107.4	F	15.3	5.8
17	2	890.	708.	0.	4100.	708.	0.	3826.	4397.	3.	** 890.	274.	.87	24.	78.3	F	19.1	3.9
18	3	4840.	280.	552.	4380.	280.	552.	4106.	5548.	52.	** 4840.	274.	.74	16.	85.5	F	13.3	5.5
19	2	530.	0.	0.	3828.	0.	0.	3554.	3800.	0.	** 530.	246.	.94	31.	57.5	F	20.8	3.2
20	2	1040.	556.	0.	4384.	556.	0.	4110.	4372.	28.	** 1040.	246.	.94	31.	65.3	F	20.9	3.1
21	3	2810.	904.	1096.	5288.	904.	1039.	5014.	5014.	586.	0.	0.	1.00	52.	32.4	E	30.3	2.3
22	2	1850.	0.	0.	4192.	0.	0.	3975.	4400.	0.	0.	0.	.90	58.	34.5	D	18.6	3.0
23	3	2390.	296.	132.	4488.	296.	125.	4271.	5534.	66.	0.	0.	.77	62.	23.0	C	24.1	4.8
24	3	960.	0.	1412.	4356.	0.	1500.	4145.	5576.	24.	0.	0.	.74	62.	22.3	C	17.2	4.8
25	2	1400.	0.	2944.	2944.	0.	2802.	2802.	3600.	0.	0.	0.	.78	62.	22.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 27.		47.4	15.2	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	366. VEH-HRS	414. PASS-HRS	7723. VEH-HRS	8743. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	365. VEH-HRS	413. PASS-HRS	4924. VEH-HRS	5574. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	731. VEH-HRS	827. PASS-HRS	12679. VEH-HRS	14352. PASS-HRS
TOTAL TRAV DISTANCE =	9693. VEH-MI.	10972. PASS-MI.	224365. VEH-MI.	253981. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		29. MPH.	
AVERAGE DENSITY =	47. VPMPL		46. VPMPL	
TOTAL FUEL =	777. GALLONS		16442. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1289. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1440.	364.93	138.22	2.12	13.06	2.28	17.46

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2236.	56.	2236.	2236.	56.	2236.	4400.	0.	0.	0.	.51	62.	18.0	C	13.6	4.8
2	2	1970.	0.	0.	2180.	0.	0.	2180.	4100.	0.	0.	0.	.53	62.	17.6	B	13.6	4.8
3	2	1830.	584.	132.	2764.	584.	132.	2764.	4084.	16.	0.	0.	.68	62.	22.3	C	13.6	4.8
4	2	2010.	0.	0.	2632.	0.	0.	2632.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
5	3	2445.	616.	400.	3248.	616.	400.	3248.	5535.	65.	0.	0.	.59	62.	17.5	B	13.6	4.8
6	2	1890.	0.	0.	2848.	0.	0.	2848.	4100.	0.	0.	0.	.69	62.	23.0	C	13.6	4.8
7	3	5320.	628.	524.	3476.	628.	524.	3412.	5600.	0.	* 175.	64.	.61	60.	19.1	F	13.5	4.8
8	2	880.	0.	0.	2952.	0.	0.	2888.	3900.	0.	** 880.	64.	.74	17.	84.9	F	12.3	5.4
9	2	1125.	200.	0.	3152.	200.	0.	3088.	3900.	0.	** 1125.	64.	.79	19.	81.9	F	17.2	4.8
10	3	6320.	584.	328.	3736.	584.	328.	3672.	5597.	3.	** 6320.	64.	.66	12.	99.1	F	13.8	6.3
11	2	2050.	0.	0.	3408.	0.	0.	3344.	4100.	0.	** 2050.	64.	.82	20.	82.1	F	17.9	4.5
12	3	2560.	608.	0.	4016.	608.	0.	3952.	5532.	68.	** 2560.	64.	.71	15.	89.1	F	13.1	5.8
13	3	1400.	0.	452.	4016.	0.	452.	3952.	5532.	68.	** 1400.	64.	.71	15.	89.1	F	24.1	5.8
14	2	1320.	0.	0.	3564.	0.	0.	3500.	4400.	0.	** 1320.	64.	.80	19.	91.8	F	12.6	4.8
15	3	540.	852.	1200.	4416.	852.	1200.	4352.	4980.	620.	** 540.	64.	.87	25.	58.6	F	12.3	3.8
16	2	1230.	0.	0.	3216.	0.	0.	3152.	4400.	0.	** 1230.	64.	.72	15.	106.0	F	15.5	5.8
17	2	890.	704.	0.	3920.	704.	0.	3856.	4398.	2.	** 890.	64.	.88	25.	77.1	F	19.3	3.8
18	3	4840.	280.	644.	4200.	280.	644.	4136.	5545.	55.	** 4840.	64.	.75	16.	84.6	F	13.4	5.4
19	2	530.	0.	0.	3556.	0.	0.	3492.	3800.	0.	** 530.	64.	.92	29.	60.1	F	20.4	3.3
20	2	1040.	580.	0.	4136.	580.	0.	4072.	4370.	30.	** 1040.	64.	.93	30.	66.8	F	20.7	3.2
21	3	2810.	912.	1224.	5048.	912.	1208.	4984.	4984.	616.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3824.	0.	0.	3775.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	252.	176.	4076.	252.	174.	4027.	5541.	59.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1480.	3900.	0.	1500.	3854.	5580.	20.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2420.	2420.	0.	2391.	2391.	3600.	0.	0.	0.	.66	62.	19.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 27.		47.4	15.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	363. VEH-HRS	411. PASS-HRS	8086. VEH-HRS	9153. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	359. VEH-HRS	406. PASS-HRS	5283. VEH-HRS	5980. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	722. VEH-HRS	817. PASS-HRS	13400. VEH-HRS	15169. PASS-HRS
TOTAL TRAV DISTANCE =	9710. VEH-MI.	10992. PASS-MI.	234075. VEH-MI.	264972. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		29. MPH.	
AVERAGE DENSITY =	47. VPMPL		46. VPMPL	
TOTAL FUEL =	772. GALLONS		17214. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		1354. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1431.	358.87	135.92	2.09	12.84	2.24	17.17

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	136.	154.	15.	17.	151.	171.	8448.	9563.	55.9	515.	2.	28.	11.	6:00
2	169.	191.	44.	49.	212.	240.	10328.	11692.	48.7	636.	2.	33.	13.	6:15
3	217.	246.	73.	83.	291.	329.	11850.	13414.	40.8	736.	2.	33.	14.	6:30
4	261.	296.	107.	122.	369.	417.	11735.	13285.	31.8	757.	3.	35.	14.	6:45
5	267.	302.	145.	165.	412.	467.	10327.	11690.	25.1	694.	3.	37.	13.	7:00
6	253.	286.	172.	194.	424.	480.	10626.	12029.	25.1	697.	3.	37.	13.	7:15
7	303.	343.	174.	197.	477.	540.	11094.	12558.	23.3	760.	4.	40.	14.	7:30
8	348.	394.	176.	199.	524.	593.	10399.	11772.	19.9	739.	4.	40.	13.	7:45
9	388.	439.	190.	215.	578.	654.	10351.	11717.	17.9	762.	4.	42.	13.	8:00
10	445.	503.	203.	229.	647.	733.	10200.	11546.	15.8	780.	5.	44.	13.	8:15
11	460.	521.	219.	248.	679.	769.	9855.	11156.	14.5	772.	5.	44.	12.	8:30
12	424.	479.	237.	268.	660.	747.	10574.	11970.	16.0	795.	5.	44.	13.	8:45
13	426.	482.	254.	288.	680.	770.	10883.	12319.	16.0	822.	5.	46.	13.	9:00
14	462.	523.	269.	305.	731.	827.	10437.	11814.	14.3	821.	5.	47.	13.	9:15
15	471.	533.	280.	316.	750.	849.	10158.	11499.	13.5	810.	5.	47.	13.	9:30
16	445.	504.	292.	330.	737.	834.	9886.	11191.	13.4	784.	5.	45.	12.	9:45
17	435.	493.	312.	353.	747.	846.	9523.	10780.	12.7	769.	5.	45.	12.	10:00
18	407.	461.	339.	384.	746.	844.	9394.	10635.	12.6	758.	5.	45.	12.	10:15
19	379.	429.	357.	405.	736.	833.	9495.	10748.	12.9	762.	5.	46.	13.	10:30
20	324.	366.	365.	413.	689.	780.	9096.	10297.	13.2	710.	5.	42.	12.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	339.	384.	369.	417.	708.	801.	10013.	11334.	14.1	785.	5.	46.	13.	11:00
22	366.	414.	365.	413.	731.	827.	9693.	10972.	13.3	777.	5.	46.	13.	11:15
23	363.	411.	359.	406.	722.	817.	9710.	10992.	13.5	772.	5.	46.	13.	11:30
TOTAL	8086.	9153.	5314.	6015.	13400.	15169.	234075.	264972.	28.9	17214.	99.	959.	295.	

Opening Year (2025) Interim Build
(Aux Lanes Only)
Northbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2408.	76.	2408.	2408.	76.	2408.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
2	2	1970.	0.	0.	2332.	0.	0.	2332.	4100.	0.	0.	0.	.57	62.	18.8	C	13.6	4.8
3	2	1830.	248.	116.	2580.	248.	116.	2580.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
4	2	2010.	0.	0.	2464.	0.	0.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
5	3	2445.	748.	380.	3212.	748.	380.	3212.	5483.	117.	0.	0.	.59	62.	17.3	B	13.6	4.8
6	2	1890.	0.	0.	2832.	0.	0.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	13.6	4.8
7	3	5320.	472.	616.	3304.	472.	616.	3304.	5600.	0.	0.	0.	.59	62.	17.8	B	13.6	4.8
8	2	880.	0.	0.	2688.	0.	0.	2688.	4400.	0.	0.	0.	.61	62.	21.7	C	14.9	4.8
9	2	1125.	200.	0.	2888.	200.	0.	2888.	4400.	0.	0.	0.	.66	62.	23.3	C	19.9	4.8
10	3	6320.	540.	360.	3428.	540.	360.	3428.	5598.	2.	0.	0.	.61	62.	18.4	C	19.9	4.8
11	2	2050.	0.	0.	3068.	0.	0.	3068.	4100.	0.	0.	0.	.75	62.	24.7	C	19.9	4.8
12	3	2560.	1136.	0.	4204.	1136.	0.	4204.	5501.	99.	0.	0.	.76	62.	22.6	C	17.2	4.8
13	3	1400.	0.	380.	4204.	0.	380.	4204.	5501.	99.	0.	0.	.76	62.	22.6	C	32.3	4.8
14	2	1320.	0.	0.	3824.	0.	0.	3824.	4400.	0.	0.	0.	.87	59.	32.4	D	15.8	3.4
15	3	540.	692.	1276.	4516.	692.	1276.	4516.	5104.	496.	0.	0.	.88	62.	24.3	C	12.6	4.8
16	2	1230.	0.	0.	3240.	0.	0.	3240.	4400.	0.	0.	0.	.74	62.	26.2	D	20.0	4.7
17	2	890.	640.	0.	3880.	640.	0.	3880.	4399.	1.	0.	0.	.88	59.	33.1	D	21.3	3.3
18	3	4840.	264.	732.	4144.	264.	732.	4144.	5543.	57.	0.	0.	.75	62.	22.3	C	17.2	4.8
19	2	530.	0.	0.	3412.	0.	0.	3412.	3800.	0.	0.	0.	.90	58.	29.5	D	21.5	3.1
20	2	1040.	368.	0.	3780.	368.	0.	3780.	4386.	14.	0.	0.	.86	59.	31.8	D	21.1	3.5
21	3	2810.	496.	736.	4276.	496.	736.	4276.	5556.	44.	0.	0.	.77	62.	23.0	C	24.1	4.8
22	2	1850.	0.	0.	3540.	0.	0.	3540.	4400.	0.	0.	0.	.80	61.	29.1	D	17.6	4.2
23	3	2390.	308.	96.	3848.	308.	96.	3848.	5534.	66.	0.	0.	.70	62.	20.7	C	24.1	4.8
24	3	960.	0.	1460.	3752.	0.	1460.	3752.	5578.	22.	0.	0.	.67	62.	20.2	C	17.2	4.8
25	2	1400.	0.	2292.	2292.	0.	2292.	2292.	3600.	0.	0.	0.	.64	62.	18.5	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.90 LOWEST LOS = D AVG = 62. 21.7 17.2 4.6

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 1 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	171. PASS-HRS	137. VEH-HRS	171. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	137. VEH-HRS	171. PASS-HRS	137. VEH-HRS	171. PASS-HRS
TOTAL TRAV DISTANCE =	8463. VEH-MI.	10529. PASS-MI.	8463. VEH-MI.	10529. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		22. VPMPL	
TOTAL FUEL =	492. GALLONS		492. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		39. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2536.	64.	2536.	2536.	64.	2536.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
2	2	1970.	0.	0.	2472.	0.	0.	2472.	4100.	0.	0.	0.	.60	62.	19.9	C	13.6	4.8
3	2	1830.	392.	108.	2864.	392.	108.	2864.	4100.	0.	0.	0.	.70	62.	23.1	C	13.6	4.8
4	2	2010.	0.	0.	2756.	0.	0.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	13.6	4.8
5	3	2445.	444.	400.	3200.	444.	400.	3200.	5600.	0.	0.	0.	.57	62.	17.2	B	13.6	4.8
6	2	1890.	0.	0.	2800.	0.	0.	2800.	4400.	0.	0.	0.	.64	62.	22.6	C	13.6	4.8
7	3	5320.	552.	608.	3352.	552.	608.	3352.	5600.	0.	0.	0.	.60	62.	18.0	C	13.6	4.8
8	2	880.	0.	0.	2744.	0.	0.	2744.	4400.	0.	0.	0.	.62	62.	22.1	C	14.9	4.8
9	2	1125.	168.	0.	2912.	168.	0.	2912.	4400.	0.	0.	0.	.66	62.	23.5	C	19.9	4.8
10	3	6320.	584.	316.	3496.	584.	316.	3496.	5598.	2.	0.	0.	.62	62.	18.8	C	19.9	4.8
11	2	2050.	0.	0.	3180.	0.	0.	3180.	4100.	0.	0.	0.	.78	61.	25.9	C	20.2	4.4
12	3	2560.	1048.	0.	4228.	1048.	0.	4228.	5486.	114.	0.	0.	.77	62.	22.7	C	17.2	4.8
13	3	1400.	0.	480.	4228.	0.	480.	4228.	5486.	114.	0.	0.	.77	62.	22.7	C	32.3	4.8
14	2	1320.	0.	0.	3748.	0.	0.	3748.	4400.	0.	0.	0.	.85	60.	31.4	D	15.6	3.5
15	3	540.	864.	1232.	4612.	864.	1232.	4612.	4968.	632.	0.	0.	.93	62.	24.8	C	12.6	4.8
16	2	1230.	0.	0.	3380.	0.	0.	3380.	4400.	0.	0.	0.	.77	62.	27.5	D	20.2	4.5
17	2	890.	696.	0.	4076.	696.	0.	4076.	4397.	3.	0.	0.	.93	56.	36.1	E	21.9	2.8
18	3	4840.	304.	676.	4380.	304.	676.	4380.	5536.	64.	0.	0.	.79	62.	23.5	C	17.2	4.8
19	2	530.	0.	0.	3704.	0.	0.	3704.	3800.	0.	0.	0.	.97	53.	34.6	D	22.6	2.4
20	2	1040.	356.	0.	4060.	356.	0.	4060.	4384.	16.	0.	0.	.93	57.	35.9	E	21.9	2.8
21	3	2810.	536.	820.	4596.	536.	820.	4596.	5487.	113.	0.	0.	.84	62.	24.7	C	24.1	4.8
22	2	1850.	0.	0.	3776.	0.	0.	3776.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	320.	236.	4096.	320.	236.	4096.	5530.	70.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1492.	3860.	0.	1492.	3860.	5577.	23.	0.	0.	.69	62.	20.8	C	17.2	4.8
25	2	1400.	0.	2368.	2368.	0.	2368.	2368.	3600.	0.	0.	0.	.66	62.	19.1	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.97 LOWEST LOS = E AVG = 61. 22.7 17.3 4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	280. VEH-HRS	349. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	280. VEH-HRS	349. PASS-HRS
TOTAL TRAV DISTANCE =	8787. VEH-MI.	10931. PASS-MI.	17251. VEH-MI.	21460. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	509. GALLONS		1001. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		79. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2760.	108.	2760.	2760.	108.	2760.	4100.	0.	0.	0.	.67	62.	22.3	C	13.6	4.8
2	2	1970.	0.	0.	2652.	0.	0.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
3	2	1830.	360.	132.	3012.	360.	132.	3012.	4100.	0.	0.	0.	.73	62.	24.3	C	13.6	4.8
4	2	2010.	0.	0.	2880.	0.	0.	2880.	4400.	0.	0.	0.	.65	62.	23.2	C	13.6	4.8
5	3	2445.	396.	372.	3276.	396.	372.	3276.	5600.	0.	0.	0.	.58	62.	17.6	B	13.6	4.8
6	2	1890.	0.	0.	2904.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	13.6	4.8
7	3	5320.	572.	468.	3476.	572.	468.	3476.	5600.	0.	0.	0.	.62	62.	18.7	C	13.6	4.8
8	2	880.	0.	0.	3008.	0.	0.	3008.	4400.	0.	0.	0.	.68	62.	24.3	C	14.9	4.8
9	2	1125.	196.	0.	3204.	196.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	20.0	4.7
10	3	6320.	564.	300.	3768.	564.	300.	3768.	5596.	4.	0.	0.	.67	62.	20.3	C	19.9	4.8
11	2	2050.	0.	0.	3468.	0.	0.	3468.	4100.	0.	0.	0.	.85	60.	29.0	D	21.0	3.6
12	3	2560.	804.	0.	4272.	804.	0.	4272.	5508.	92.	0.	0.	.78	62.	23.0	C	17.2	4.8
13	3	1400.	0.	488.	4272.	0.	488.	4272.	5508.	92.	0.	0.	.78	62.	23.0	C	32.3	4.8
14	2	1320.	0.	0.	3784.	0.	0.	3784.	4400.	0.	0.	0.	.86	59.	31.8	D	15.7	3.5
15	3	540.	804.	1364.	4588.	804.	1364.	4588.	5036.	564.	0.	0.	.91	62.	24.7	C	12.6	4.8
16	2	1230.	0.	0.	3224.	0.	0.	3224.	4400.	0.	0.	0.	.73	62.	26.1	D	20.0	4.7
17	2	890.	652.	0.	3876.	652.	0.	3876.	4399.	1.	0.	0.	.88	59.	33.0	D	21.3	3.3
18	3	4840.	236.	756.	4112.	236.	756.	4112.	5539.	61.	0.	0.	.74	62.	22.1	C	17.2	4.8
19	2	530.	0.	0.	3356.	0.	0.	3356.	3800.	0.	0.	0.	.88	59.	28.7	D	21.3	3.3
20	2	1040.	384.	0.	3740.	384.	0.	3740.	4386.	14.	0.	0.	.85	60.	31.3	D	21.0	3.5
21	3	2810.	660.	732.	4400.	660.	732.	4400.	5473.	127.	0.	0.	.80	62.	23.7	C	24.1	4.8
22	2	1850.	0.	0.	3668.	0.	0.	3668.	4400.	0.	0.	0.	.83	60.	30.4	D	17.9	3.8
23	3	2390.	348.	108.	4016.	348.	108.	4016.	5515.	85.	0.	0.	.73	62.	21.6	C	24.1	4.8
24	3	960.	0.	1596.	3908.	0.	1500.	3908.	5574.	26.	0.	0.	.70	62.	21.0	C	17.2	4.8
25	2	1400.	0.	2312.	2312.	0.	2312.	2312.	3600.	0.	0.	0.	.64	62.	18.6	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.91		LOWEST LOS = D	AVG = 62.	23.0		17.2	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	145. VEH-HRS	180. PASS-HRS	425. VEH-HRS	528. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	3. VEH-HRS	4. PASS-HRS	3. VEH-HRS	4. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	148. VEH-HRS	184. PASS-HRS	428. VEH-HRS	532. PASS-HRS
TOTAL TRAV DISTANCE =	8910. VEH-MI.	11084. PASS-MI.	26161. VEH-MI.	32544. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	520. GALLONS		1521. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		121. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	24.	3.00	1.14	0.02	0.11	0.02	0.14

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2568.	112.	2568.	2568.	112.	2568.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
2	2	1970.	0.	0.	2456.	0.	0.	2456.	4100.	0.	0.	0.	.60	62.	19.8	C	13.6	4.8
3	2	1830.	280.	156.	2736.	280.	156.	2736.	4100.	0.	0.	0.	.67	62.	22.1	C	13.6	4.8
4	2	2010.	0.	0.	2580.	0.	0.	2580.	4400.	0.	0.	0.	.59	62.	20.8	C	13.6	4.8
5	3	2445.	520.	432.	3100.	520.	432.	3100.	5564.	36.	0.	0.	.56	62.	16.7	B	13.6	4.8
6	2	1890.	0.	0.	2668.	0.	0.	2668.	4400.	0.	0.	0.	.61	62.	21.5	C	13.6	4.8
7	3	5320.	556.	464.	3224.	556.	464.	3224.	5600.	0.	0.	0.	.58	62.	17.3	B	13.6	4.8
8	2	880.	0.	0.	2760.	0.	0.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	14.9	4.8
9	2	1125.	180.	0.	2940.	180.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	19.9	4.8
10	3	6320.	504.	356.	3444.	504.	356.	3444.	5597.	3.	0.	0.	.62	62.	18.5	C	19.9	4.8
11	2	2050.	0.	0.	3088.	0.	0.	3088.	4100.	0.	0.	0.	.75	62.	25.0	C	20.1	4.6
12	3	2560.	768.	0.	3856.	768.	0.	3856.	5513.	87.	0.	0.	.70	62.	20.7	C	17.2	4.8
13	3	1400.	0.	460.	3856.	0.	460.	3856.	5513.	87.	0.	0.	.70	62.	20.7	C	32.3	4.8
14	2	1320.	0.	0.	3396.	0.	0.	3396.	4400.	0.	0.	0.	.77	61.	27.6	D	15.1	4.5
15	3	540.	976.	1472.	4372.	976.	1472.	4372.	4952.	648.	0.	0.	.88	62.	23.5	C	12.6	4.8
16	2	1230.	0.	0.	2900.	0.	0.	2900.	4400.	0.	0.	0.	.66	62.	23.4	C	19.9	4.8
17	2	890.	580.	0.	3480.	580.	0.	3480.	4400.	0.	0.	0.	.79	61.	28.4	D	20.3	4.3
18	3	4840.	236.	828.	3716.	236.	828.	3716.	5562.	38.	0.	0.	.67	62.	20.0	C	17.2	4.8
19	2	530.	0.	0.	2888.	0.	0.	2888.	3800.	0.	0.	0.	.76	62.	23.3	C	19.9	4.8
20	2	1040.	452.	0.	3340.	452.	0.	3340.	4386.	14.	0.	0.	.76	62.	27.1	D	20.1	4.5
21	3	2810.	576.	836.	3916.	576.	836.	3916.	5480.	120.	0.	0.	.71	62.	21.1	C	24.1	4.8
22	2	1850.	0.	0.	3080.	0.	0.	3080.	4400.	0.	0.	0.	.70	62.	24.9	C	17.2	4.8
23	3	2390.	588.	232.	3668.	588.	232.	3668.	5498.	102.	0.	0.	.67	62.	19.7	C	24.1	4.8
24	3	960.	0.	1620.	3436.	0.	1500.	3436.	5581.	19.	0.	0.	.62	62.	18.5	C	17.2	4.8
25	2	1400.	0.	1816.	1816.	0.	1816.	1816.	3600.	0.	0.	0.	.50	62.	14.6	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.88		LOWEST LOS = D	AVG = 62.	20.6		17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	162. PASS-HRS	555. VEH-HRS	690. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	10. VEH-HRS	12. PASS-HRS	13. VEH-HRS	16. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	174. PASS-HRS	568. VEH-HRS	706. PASS-HRS
TOTAL TRAV DISTANCE =	8070. VEH-MI.	10039. PASS-MI.	34231. VEH-MI.	42584. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		22. VPMPL	
TOTAL FUEL =	477. GALLONS		1998. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		159. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	54.	9.75	3.69	0.06	0.35	0.06	0.47

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2680.	108.	2680.	2680.	108.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
2	2	1970.	0.	0.	2572.	0.	0.	2572.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
3	2	1830.	264.	204.	2836.	264.	204.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
4	2	2010.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
5	3	2445.	728.	328.	3360.	728.	328.	3360.	5523.	77.	0.	0.	.61	62.	18.1	C	13.6	4.8
6	2	1890.	0.	0.	3032.	0.	0.	3032.	4400.	0.	0.	0.	.69	62.	24.5	C	13.6	4.8
7	3	5320.	604.	656.	3636.	604.	656.	3636.	5600.	0.	0.	0.	.65	62.	19.5	C	13.6	4.8
8	2	880.	0.	0.	2980.	0.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	14.9	4.8
9	2	1125.	224.	0.	3204.	224.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	20.0	4.7
10	3	6320.	468.	364.	3672.	468.	364.	3672.	5595.	5.	0.	0.	.66	62.	19.7	C	19.9	4.8
11	2	2050.	0.	0.	3308.	0.	0.	3308.	4100.	0.	0.	0.	.81	61.	27.2	D	20.5	4.1
12	3	2560.	656.	0.	3964.	656.	0.	3964.	5528.	72.	0.	0.	.72	62.	21.3	C	17.2	4.8
13	3	1400.	0.	460.	3964.	0.	460.	3964.	5528.	72.	0.	0.	.72	62.	21.3	C	32.3	4.8
14	2	1320.	0.	0.	3504.	0.	0.	3504.	4400.	0.	0.	0.	.80	61.	28.7	D	15.2	4.2
15	3	540.	1060.	1200.	4564.	1060.	1200.	4564.	4820.	780.	0.	0.	.95	62.	24.5	C	12.6	4.8
16	2	1230.	0.	0.	3364.	0.	0.	3364.	4400.	0.	0.	0.	.76	62.	27.3	D	20.2	4.5
17	2	890.	540.	0.	3904.	540.	0.	3904.	4399.	1.	0.	0.	.89	58.	33.4	D	21.4	3.2
18	3	4840.	188.	724.	4092.	188.	724.	4092.	5547.	53.	0.	0.	.74	62.	22.0	C	17.2	4.8
19	2	530.	0.	0.	3368.	0.	0.	3368.	3800.	0.	0.	0.	.89	58.	28.8	D	21.3	3.2
20	2	1040.	368.	0.	3736.	368.	0.	3736.	4387.	13.	0.	0.	.85	60.	31.3	D	21.0	3.5
21	3	2810.	660.	712.	4396.	660.	712.	4396.	5476.	124.	0.	0.	.80	62.	23.6	C	24.1	4.8
22	2	1850.	0.	0.	3684.	0.	0.	3684.	4400.	0.	0.	0.	.84	60.	30.6	D	17.9	3.7
23	3	2390.	376.	172.	4060.	376.	172.	4060.	5518.	82.	0.	0.	.74	62.	21.8	C	24.1	4.8
24	3	960.	0.	1476.	3888.	0.	1500.	3888.	5573.	27.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	2412.	2412.	0.	2412.	2412.	3600.	0.	0.	0.	.67	62.	19.5	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.95		LOWEST LOS = D	AVG = 62.	22.6		17.1	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	698. VEH-HRS	868. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	13. VEH-HRS	16. PASS-HRS	26. VEH-HRS	32. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	156. VEH-HRS	193. PASS-HRS	723. VEH-HRS	900. PASS-HRS
TOTAL TRAV DISTANCE =	8808. VEH-MI.	10957. PASS-MI.	43039. VEH-MI.	53541. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	519. GALLONS		2517. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		201. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	48.	12.75	4.83	0.07	0.46	0.08	0.61

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2508.	112.	2508.	2508.	112.	2508.	4100.	0.	0.	0.	.61	62.	20.2	C	13.6	4.8
2	2	1970.	0.	0.	2396.	0.	0.	2396.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
3	2	1830.	260.	160.	2656.	260.	160.	2656.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
4	2	2010.	0.	0.	2496.	0.	0.	2496.	4400.	0.	0.	0.	.57	62.	20.1	C	13.6	4.8
5	3	2445.	612.	300.	3108.	612.	300.	3108.	5588.	12.	0.	0.	.56	62.	16.7	B	13.6	4.8
6	2	1890.	0.	0.	2808.	0.	0.	2808.	4400.	0.	0.	0.	.64	62.	22.6	C	13.6	4.8
7	3	5320.	436.	524.	3244.	436.	524.	3244.	5600.	0.	0.	0.	.58	62.	17.4	B	13.6	4.8
8	2	880.	0.	0.	2720.	0.	0.	2720.	4400.	0.	0.	0.	.62	62.	21.9	C	14.9	4.8
9	2	1125.	184.	0.	2904.	184.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	19.9	4.8
10	3	6320.	408.	288.	3312.	408.	288.	3312.	5598.	2.	0.	0.	.59	62.	17.8	B	19.9	4.8
11	2	2050.	0.	0.	3024.	0.	0.	3024.	4100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
12	3	2560.	840.	0.	3864.	840.	0.	3864.	5517.	83.	0.	0.	.70	62.	20.8	C	17.2	4.8
13	3	1400.	0.	428.	3864.	0.	428.	3864.	5517.	83.	0.	0.	.70	62.	20.8	C	32.3	4.8
14	2	1320.	0.	0.	3436.	0.	0.	3436.	4400.	0.	0.	0.	.78	61.	28.0	D	15.1	4.4
15	3	540.	908.	1288.	4344.	908.	1288.	4344.	4960.	640.	0.	0.	.88	62.	23.4	C	12.6	4.8
16	2	1230.	0.	0.	3056.	0.	0.	3056.	4400.	0.	0.	0.	.69	62.	24.6	C	19.9	4.8
17	2	890.	656.	0.	3712.	656.	0.	3712.	4400.	0.	0.	0.	.84	60.	31.0	D	20.9	3.6
18	3	4840.	212.	612.	3924.	212.	612.	3924.	5552.	48.	0.	0.	.71	62.	21.1	C	17.2	4.8
19	2	530.	0.	0.	3312.	0.	0.	3312.	3800.	0.	0.	0.	.87	59.	28.1	D	21.2	3.4
20	2	1040.	384.	0.	3696.	384.	0.	3696.	4386.	14.	0.	0.	.84	60.	30.8	D	20.9	3.6
21	3	2810.	648.	732.	4344.	648.	732.	4344.	5477.	123.	0.	0.	.79	62.	23.4	C	24.1	4.8
22	2	1850.	0.	0.	3612.	0.	0.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	17.8	3.9
23	3	2390.	324.	140.	3936.	324.	140.	3936.	5527.	73.	0.	0.	.71	62.	21.2	C	24.1	4.8
24	3	960.	0.	1580.	3796.	0.	1500.	3796.	5578.	22.	0.	0.	.68	62.	20.4	C	17.2	4.8
25	2	1400.	0.	2216.	2216.	0.	2216.	2216.	3600.	0.	0.	0.	.62	62.	17.9	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.88 LOWEST LOS = D AVG = 62. 21.2 17.2 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	167. PASS-HRS	832. VEH-HRS	1035. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	14. VEH-HRS	18. PASS-HRS	40. VEH-HRS	50. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	185. PASS-HRS	872. VEH-HRS	1085. PASS-HRS
TOTAL TRAV DISTANCE =	8284. VEH-MI.	10305. PASS-MI.	51323. VEH-MI.	63846. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		22. VPMPL	
TOTAL FUEL =	489. GALLONS		3006. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		240. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	68.	14.50	5.49	0.08	0.52	0.09	0.69

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2584.	164.	2584.	2584.	164.	2584.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
2	2	1970.	0.	0.	2420.	0.	0.	2420.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
3	2	1830.	248.	140.	2668.	248.	140.	2668.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
4	2	2010.	0.	0.	2528.	0.	0.	2528.	4400.	0.	0.	0.	.57	62.	20.4	C	13.6	4.8
5	3	2445.	704.	348.	3232.	704.	348.	3232.	5518.	82.	0.	0.	.59	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	2884.	0.	0.	2884.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
7	3	5320.	488.	468.	3372.	488.	468.	3372.	5600.	0.	0.	0.	.60	62.	18.1	C	13.6	4.8
8	2	880.	0.	0.	2904.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	14.9	4.8
9	2	1125.	164.	0.	3068.	164.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	19.9	4.8
10	3	6320.	524.	276.	3592.	524.	276.	3592.	5597.	3.	0.	0.	.64	62.	19.3	C	19.9	4.8
11	2	2050.	0.	0.	3316.	0.	0.	3316.	4100.	0.	0.	0.	.81	61.	27.3	D	20.5	4.1
12	3	2560.	780.	0.	4096.	780.	0.	4096.	5516.	84.	0.	0.	.74	62.	22.0	C	17.2	4.8
13	3	1400.	0.	440.	4096.	0.	440.	4096.	5516.	84.	0.	0.	.74	62.	22.0	C	32.3	4.8
14	2	1320.	0.	0.	3656.	0.	0.	3656.	4400.	0.	0.	0.	.83	60.	30.3	D	15.5	3.8
15	3	540.	776.	1188.	4432.	776.	1188.	4432.	5032.	568.	0.	0.	.88	62.	23.8	C	12.6	4.8
16	2	1230.	0.	0.	3244.	0.	0.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	20.0	4.7
17	2	890.	632.	0.	3876.	632.	0.	3876.	4398.	2.	0.	0.	.88	59.	33.1	D	21.3	3.3
18	3	4840.	236.	496.	4112.	236.	496.	4112.	5558.	42.	0.	0.	.74	62.	22.1	C	17.2	4.8
19	2	530.	0.	0.	3616.	0.	0.	3616.	3800.	0.	0.	0.	.95	55.	32.9	D	22.3	2.4
20	2	1040.	380.	0.	3996.	380.	0.	3996.	4385.	15.	0.	0.	.91	57.	34.9	D	21.7	3.0
21	3	2810.	672.	796.	4668.	672.	796.	4668.	5414.	186.	0.	0.	.86	59.	26.2	D	25.7	3.5
22	2	1850.	0.	0.	3872.	0.	0.	3872.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	332.	152.	4204.	332.	152.	4204.	5523.	77.	0.	0.	.76	62.	22.6	C	24.1	4.8
24	3	960.	0.	1536.	4052.	0.	1500.	4052.	5574.	26.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2516.	2516.	0.	2516.	2516.	3600.	0.	0.	0.	.70	62.	20.3	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.95 LOWEST LOS = D AVG = 61. 22.6 17.3 4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	975. VEH-HRS	1212. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	18. VEH-HRS	23. PASS-HRS	58. VEH-HRS	72. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	161. VEH-HRS	200. PASS-HRS	1033. VEH-HRS	1285. PASS-HRS
TOTAL TRAV DISTANCE =	8755. VEH-MI.	10891. PASS-MI.	60078. VEH-MI.	74737. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	512. GALLONS		3517. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		280. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	77.	18.12	6.86	0.11	0.65	0.11	0.87

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2552.	112.	2552.	2552.	112.	2552.	4100.	0.	0.	0.	.62	62.	20.6	C	13.6	4.8
2	2	1970.	0.	0.	2440.	0.	0.	2440.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
3	2	1830.	308.	156.	2748.	308.	156.	2748.	4100.	0.	0.	0.	.67	62.	22.2	C	13.6	4.8
4	2	2010.	0.	0.	2592.	0.	0.	2592.	4400.	0.	0.	0.	.59	62.	20.9	C	13.6	4.8
5	3	2445.	596.	348.	3188.	596.	348.	3188.	5572.	28.	0.	0.	.57	62.	17.1	B	13.6	4.8
6	2	1890.	0.	0.	2840.	0.	0.	2840.	4400.	0.	0.	0.	.65	62.	22.9	C	13.6	4.8
7	3	5320.	496.	548.	3336.	496.	548.	3336.	5600.	0.	0.	0.	.60	62.	17.9	B	13.6	4.8
8	2	880.	0.	0.	2788.	0.	0.	2788.	4400.	0.	0.	0.	.63	62.	22.5	C	14.9	4.8
9	2	1125.	164.	0.	2952.	164.	0.	2952.	4400.	0.	0.	0.	.67	62.	23.8	C	19.9	4.8
10	3	6320.	444.	316.	3396.	444.	316.	3396.	5598.	2.	0.	0.	.61	62.	18.3	C	19.9	4.8
11	2	2050.	0.	0.	3080.	0.	0.	3080.	4100.	0.	0.	0.	.75	62.	24.8	C	19.9	4.8
12	3	2560.	704.	0.	3784.	704.	0.	3784.	5517.	83.	0.	0.	.69	62.	20.3	C	17.2	4.8
13	3	1400.	0.	488.	3784.	0.	488.	3784.	5517.	83.	0.	0.	.69	62.	20.3	C	32.3	4.8
14	2	1320.	0.	0.	3296.	0.	0.	3296.	4400.	0.	0.	0.	.75	62.	26.7	D	15.0	4.6
15	3	540.	796.	1356.	4092.	796.	1356.	4092.	5068.	532.	0.	0.	.81	62.	22.0	C	12.6	4.8
16	2	1230.	0.	0.	2736.	0.	0.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	19.9	4.8
17	2	890.	476.	0.	3212.	476.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	20.0	4.7
18	3	4840.	192.	660.	3404.	192.	660.	3404.	5577.	23.	0.	0.	.61	62.	18.3	C	17.2	4.8
19	2	530.	0.	0.	2744.	0.	0.	2744.	3800.	0.	0.	0.	.72	62.	22.1	C	19.9	4.8
20	2	1040.	384.	0.	3128.	384.	0.	3128.	4391.	9.	0.	0.	.71	62.	25.3	C	20.0	4.7
21	3	2810.	772.	664.	3900.	772.	664.	3900.	5485.	115.	0.	0.	.71	62.	21.0	C	24.1	4.8
22	2	1850.	0.	0.	3236.	0.	0.	3236.	4400.	0.	0.	0.	.74	62.	26.2	D	17.3	4.7
23	3	2390.	308.	228.	3544.	308.	228.	3544.	5551.	49.	0.	0.	.64	62.	19.1	C	24.1	4.8
24	3	960.	0.	1548.	3316.	0.	1500.	3316.	5592.	8.	0.	0.	.59	62.	17.8	B	17.2	4.8
25	2	1400.	0.	1768.	1768.	0.	1768.	1768.	3600.	0.	0.	0.	.49	62.	14.3	B	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.81	LOWEST LOS = D		AVG = 62.	20.4	17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	160. PASS-HRS	1103. VEH-HRS	1372. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	21. VEH-HRS	26. PASS-HRS	79. VEH-HRS	98. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	186. PASS-HRS	1182. VEH-HRS	1470. PASS-HRS
TOTAL TRAV DISTANCE =	7964. VEH-MI.	9908. PASS-MI.	68043. VEH-MI.	84645. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	477. GALLONS		3995. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		319. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	89.	20.75	7.86	0.12	0.74	0.13	0.99

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2792.	140.	2792.	2792.	140.	2792.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
2	2	1970.	0.	0.	2652.	0.	0.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
3	2	1830.	284.	144.	2936.	284.	144.	2936.	4100.	0.	0.	0.	.72	62.	23.7	C	13.6	4.8
4	2	2010.	0.	0.	2792.	0.	0.	2792.	4400.	0.	0.	0.	.63	62.	22.5	C	13.6	4.8
5	3	2445.	428.	508.	3220.	428.	508.	3220.	5564.	36.	0.	0.	.58	62.	17.3	B	13.6	4.8
6	2	1890.	0.	0.	2712.	0.	0.	2712.	4400.	0.	0.	0.	.62	62.	21.9	C	13.6	4.8
7	3	5320.	408.	436.	3120.	408.	436.	3120.	5600.	0.	0.	0.	.56	62.	16.8	B	13.6	4.8
8	2	880.	0.	0.	2684.	0.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	14.9	4.8
9	2	1125.	152.	0.	2836.	152.	0.	2836.	4400.	0.	0.	0.	.64	62.	22.9	C	19.9	4.8
10	3	6320.	372.	372.	3208.	372.	372.	3208.	5599.	1.	0.	0.	.57	62.	17.2	B	19.9	4.8
11	2	2050.	0.	0.	2836.	0.	0.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	19.9	4.8
12	3	2560.	840.	0.	3676.	840.	0.	3676.	5510.	90.	0.	0.	.67	62.	19.8	C	17.2	4.8
13	3	1400.	0.	436.	3676.	0.	436.	3676.	5510.	90.	0.	0.	.67	62.	19.8	C	32.3	4.8
14	2	1320.	0.	0.	3240.	0.	0.	3240.	4400.	0.	0.	0.	.74	62.	26.2	D	15.0	4.7
15	3	540.	584.	1128.	3824.	584.	1128.	3824.	5188.	412.	0.	0.	.74	62.	20.6	C	12.6	4.8
16	2	1230.	0.	0.	2696.	0.	0.	2696.	4400.	0.	0.	0.	.61	62.	21.7	C	19.9	4.8
17	2	890.	580.	0.	3276.	580.	0.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
18	3	4840.	168.	496.	3444.	168.	496.	3444.	5572.	28.	0.	0.	.62	62.	18.5	C	17.2	4.8
19	2	530.	0.	0.	2948.	0.	0.	2948.	3800.	0.	0.	0.	.78	62.	23.8	C	19.9	4.8
20	2	1040.	436.	0.	3384.	436.	0.	3384.	4386.	14.	0.	0.	.77	61.	27.5	D	20.2	4.5
21	3	2810.	596.	760.	3980.	596.	760.	3980.	5503.	97.	0.	0.	.72	62.	21.4	C	24.1	4.8
22	2	1850.	0.	0.	3220.	0.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	17.2	4.7
23	3	2390.	336.	168.	3556.	336.	168.	3556.	5542.	58.	0.	0.	.64	62.	19.1	C	24.1	4.8
24	3	960.	0.	1456.	3388.	0.	1500.	3388.	5586.	14.	0.	0.	.61	62.	18.2	C	17.2	4.8
25	2	1400.	0.	1932.	1932.	0.	1932.	1932.	3600.	0.	0.	0.	.54	62.	15.6	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.78		LOWEST LOS = D	AVG = 62.	20.4		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	159. PASS-HRS	1231. VEH-HRS	1531. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	21. VEH-HRS	26. PASS-HRS	100. VEH-HRS	124. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	185. PASS-HRS	1331. VEH-HRS	1655. PASS-HRS
TOTAL TRAV DISTANCE =	7927. VEH-MI.	9861. PASS-MI.	75970. VEH-MI.	94506. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	476. GALLONS		4470. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		358. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	78.	20.87	7.91	0.12	0.75	0.13	1.00

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2624.	104.	2624.	2624.	104.	2624.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2520.	0.	0.	2520.	4100.	0.	0.	0.	.61	62.	20.3	C	13.6	4.8
3	2	1830.	268.	156.	2788.	268.	156.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
4	2	2010.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
5	3	2445.	652.	504.	3284.	652.	504.	3284.	5438.	162.	0.	0.	.60	62.	17.7	B	13.6	4.8
6	2	1890.	0.	0.	2780.	0.	0.	2780.	4400.	0.	0.	0.	.63	62.	22.4	C	13.6	4.8
7	3	5320.	400.	500.	3180.	400.	500.	3180.	5600.	0.	0.	0.	.57	62.	17.1	B	13.6	4.8
8	2	880.	0.	0.	2680.	0.	0.	2680.	4400.	0.	0.	0.	.61	62.	21.6	C	14.9	4.8
9	2	1125.	176.	0.	2856.	176.	0.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	19.9	4.8
10	3	6320.	444.	428.	3300.	444.	428.	3300.	5599.	1.	0.	0.	.59	62.	17.7	B	19.9	4.8
11	2	2050.	0.	0.	2872.	0.	0.	2872.	4100.	0.	0.	0.	.70	62.	23.2	C	19.9	4.8
12	3	2560.	656.	0.	3528.	656.	0.	3528.	5522.	78.	0.	0.	.64	62.	19.0	C	17.2	4.8
13	3	1400.	0.	484.	3528.	0.	484.	3528.	5522.	78.	0.	0.	.64	62.	19.0	C	32.3	4.8
14	2	1320.	0.	0.	3044.	0.	0.	3044.	4400.	0.	0.	0.	.69	62.	24.5	C	14.9	4.8
15	3	540.	624.	1320.	3668.	624.	1320.	3668.	5200.	400.	0.	0.	.71	62.	19.7	C	12.6	4.8
16	2	1230.	0.	0.	2348.	0.	0.	2348.	4400.	0.	0.	0.	.53	62.	18.9	C	19.9	4.8
17	2	890.	528.	0.	2876.	528.	0.	2876.	4400.	0.	0.	0.	.65	62.	23.2	C	19.9	4.8
18	3	4840.	232.	560.	3108.	232.	560.	3108.	5592.	8.	0.	0.	.56	62.	16.7	B	17.2	4.8
19	2	530.	0.	0.	2548.	0.	0.	2548.	3800.	0.	0.	0.	.67	62.	20.5	C	19.9	4.8
20	2	1040.	372.	0.	2920.	372.	0.	2920.	4394.	6.	0.	0.	.66	62.	23.5	C	19.9	4.8
21	3	2810.	644.	728.	3564.	644.	728.	3564.	5541.	59.	0.	0.	.64	62.	19.2	C	24.1	4.8
22	2	1850.	0.	0.	2836.	0.	0.	2836.	4400.	0.	0.	0.	.64	62.	22.9	C	17.2	4.8
23	3	2390.	252.	156.	3088.	252.	156.	3088.	5587.	13.	0.	0.	.55	62.	16.6	B	24.1	4.8
24	3	960.	0.	1516.	2932.	0.	1500.	2932.	5600.	0.	0.	0.	.52	62.	15.8	B	17.2	4.8
25	2	1400.	0.	1416.	1416.	0.	1416.	1416.	3600.	0.	0.	0.	.39	62.	11.4	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.71		LOWEST LOS = C	AVG = 62.	19.3		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	151. PASS-HRS	1353. VEH-HRS	1683. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	20. VEH-HRS	25. PASS-HRS	120. VEH-HRS	149. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	141. VEH-HRS	176. PASS-HRS	1472. VEH-HRS	1831. PASS-HRS
TOTAL TRAV DISTANCE =	7532. VEH-MI.	9370. PASS-MI.	83502. VEH-MI.	103877. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	19. VPMPL		21. VPMPL	
TOTAL FUEL =	455. GALLONS		4925. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		395. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	82.	20.00	7.58	0.12	0.72	0.12	0.96

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2852.	116.	2852.	2852.	116.	2852.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
2	2	1970.	0.	0.	2736.	0.	0.	2736.	4100.	0.	0.	0.	.67	62.	22.1	C	13.6	4.8
3	2	1830.	268.	144.	3004.	268.	144.	3004.	4100.	0.	0.	0.	.73	62.	24.2	C	13.6	4.8
4	2	2010.	0.	0.	2860.	0.	0.	2860.	4400.	0.	0.	0.	.65	62.	23.1	C	13.6	4.8
5	3	2445.	612.	472.	3472.	612.	472.	3472.	5484.	116.	0.	0.	.63	62.	18.7	C	13.6	4.8
6	2	1890.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	13.6	4.8
7	3	5320.	328.	484.	3328.	328.	484.	3328.	5600.	0.	0.	0.	.59	62.	17.9	B	13.6	4.8
8	2	880.	0.	0.	2844.	0.	0.	2844.	4400.	0.	0.	0.	.65	62.	22.9	C	14.9	4.8
9	2	1125.	128.	0.	2972.	128.	0.	2972.	4400.	0.	0.	0.	.68	62.	24.0	C	19.9	4.8
10	3	6320.	416.	388.	3388.	416.	388.	3388.	5598.	2.	0.	0.	.61	62.	18.2	C	19.9	4.8
11	2	2050.	0.	0.	3000.	0.	0.	3000.	4100.	0.	0.	0.	.73	62.	24.2	C	19.9	4.8
12	3	2560.	688.	0.	3688.	688.	0.	3688.	5528.	72.	0.	0.	.67	62.	19.8	C	17.2	4.8
13	3	1400.	0.	432.	3688.	0.	432.	3688.	5528.	72.	0.	0.	.67	62.	19.8	C	32.3	4.8
14	2	1320.	0.	0.	3256.	0.	0.	3256.	4400.	0.	0.	0.	.74	62.	26.4	D	15.0	4.7
15	3	540.	524.	1172.	3780.	524.	1172.	3780.	5240.	360.	0.	0.	.72	62.	20.3	C	12.6	4.8
16	2	1230.	0.	0.	2608.	0.	0.	2608.	4400.	0.	0.	0.	.59	62.	21.0	C	19.9	4.8
17	2	890.	560.	0.	3168.	560.	0.	3168.	4400.	0.	0.	0.	.72	62.	25.6	C	20.0	4.7
18	3	4840.	232.	552.	3400.	232.	552.	3400.	5577.	23.	0.	0.	.61	62.	18.3	C	17.2	4.8
19	2	530.	0.	0.	2848.	0.	0.	2848.	3800.	0.	0.	0.	.75	62.	23.0	C	19.9	4.8
20	2	1040.	444.	0.	3292.	444.	0.	3292.	4387.	13.	0.	0.	.75	62.	26.7	D	20.1	4.6
21	3	2810.	624.	848.	3916.	624.	848.	3916.	5450.	150.	0.	0.	.72	62.	21.1	C	24.1	4.8
22	2	1850.	0.	0.	3068.	0.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	17.2	4.8
23	3	2390.	308.	180.	3376.	308.	180.	3376.	5564.	36.	0.	0.	.61	62.	18.2	C	24.1	4.8
24	3	960.	0.	1572.	3196.	0.	1500.	3196.	5596.	4.	0.	0.	.57	62.	17.2	B	17.2	4.8
25	2	1400.	0.	1624.	1624.	0.	1624.	1624.	3600.	0.	0.	0.	.45	62.	13.1	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.75		LOWEST LOS = D	AVG = 62.	20.7		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	162. PASS-HRS	1482. VEH-HRS	1844. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	23. VEH-HRS	28. PASS-HRS	142. VEH-HRS	177. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	153. VEH-HRS	190. PASS-HRS	1625. VEH-HRS	2021. PASS-HRS
TOTAL TRAV DISTANCE =	8052. VEH-MI.	10017. PASS-MI.	91554. VEH-MI.	113893. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		21. VPMPL	
TOTAL FUEL =	486. GALLONS		5411. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		435. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	100.	22.75	8.62	0.13	0.81	0.14	1.09

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2648.	108.	2648.	2648.	108.	2648.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
2	2	1970.	0.	0.	2540.	0.	0.	2540.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
3	2	1830.	272.	196.	2812.	272.	196.	2812.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
4	2	2010.	0.	0.	2616.	0.	0.	2616.	4400.	0.	0.	0.	.59	62.	21.1	C	13.6	4.8
5	3	2445.	556.	508.	3172.	556.	508.	3172.	5495.	105.	0.	0.	.58	62.	17.1	B	13.6	4.8
6	2	1890.	0.	0.	2664.	0.	0.	2664.	4400.	0.	0.	0.	.61	62.	21.5	C	13.6	4.8
7	3	5320.	408.	544.	3072.	408.	544.	3072.	5600.	0.	0.	0.	.55	62.	16.5	B	13.6	4.8
8	2	880.	0.	0.	2528.	0.	0.	2528.	4400.	0.	0.	0.	.57	62.	20.4	C	14.9	4.8
9	2	1125.	144.	0.	2672.	144.	0.	2672.	4400.	0.	0.	0.	.61	62.	21.5	C	19.9	4.8
10	3	6320.	488.	336.	3160.	488.	336.	3160.	5600.	0.	0.	0.	.56	62.	17.0	B	19.9	4.8
11	2	2050.	0.	0.	2824.	0.	0.	2824.	4100.	0.	0.	0.	.69	62.	22.8	C	19.9	4.8
12	3	2560.	776.	0.	3600.	776.	0.	3600.	5505.	95.	0.	0.	.65	62.	19.4	C	17.2	4.8
13	3	1400.	0.	528.	3600.	0.	528.	3600.	5505.	95.	0.	0.	.65	62.	19.4	C	32.3	4.8
14	2	1320.	0.	0.	3072.	0.	0.	3072.	4400.	0.	0.	0.	.70	62.	24.8	C	14.9	4.8
15	3	540.	552.	1208.	3624.	552.	1208.	3624.	5232.	368.	0.	0.	.69	62.	19.5	C	12.6	4.8
16	2	1230.	0.	0.	2416.	0.	0.	2416.	4400.	0.	0.	0.	.55	62.	19.5	C	19.9	4.8
17	2	890.	564.	0.	2980.	564.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	19.9	4.8
18	3	4840.	120.	456.	3100.	120.	456.	3100.	5586.	14.	0.	0.	.55	62.	16.7	B	17.2	4.8
19	2	530.	0.	0.	2644.	0.	0.	2644.	3800.	0.	0.	0.	.70	62.	21.3	C	19.9	4.8
20	2	1040.	428.	0.	3072.	428.	0.	3072.	4391.	9.	0.	0.	.70	62.	24.8	C	19.9	4.8
21	3	2810.	728.	844.	3800.	728.	844.	3800.	5413.	187.	0.	0.	.70	62.	20.4	C	24.1	4.8
22	2	1850.	0.	0.	2956.	0.	0.	2956.	4400.	0.	0.	0.	.67	62.	23.8	C	17.2	4.8
23	3	2390.	340.	168.	3296.	340.	168.	3296.	5587.	13.	0.	0.	.59	62.	17.7	B	24.1	4.8
24	3	960.	0.	1744.	3128.	0.	1500.	3128.	5600.	0.	0.	0.	.56	62.	16.8	B	17.2	4.8
25	2	1400.	0.	1384.	1384.	0.	1384.	1384.	3600.	0.	0.	0.	.38	62.	11.2	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.70 LOWEST LOS = C AVG = 62. 19.3 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	151. PASS-HRS	1604. VEH-HRS	1995. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	33. VEH-HRS	41. PASS-HRS	175. VEH-HRS	218. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	192. PASS-HRS	1779. VEH-HRS	2213. PASS-HRS
TOTAL TRAV DISTANCE =	7528. VEH-MI.	9365. PASS-MI.	99082. VEH-MI.	123258. PASS-MI.
AVERAGE SYSTEM SPEED =	49. MPH.		62. MPH.	
AVERAGE DENSITY =	19. VPMPL		21. VPMPL	
TOTAL FUEL =	458. GALLONS		5869. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		472. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	161.	32.62	12.36	0.19	1.17	0.20	1.56

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2812.	172.	2812.	2812.	172.	2812.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
2	2	1970.	0.	0.	2640.	0.	0.	2640.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
3	2	1830.	320.	160.	2960.	320.	160.	2960.	4100.	0.	0.	0.	.72	62.	23.9	C	13.6	4.8
4	2	2010.	0.	0.	2800.	0.	0.	2800.	4400.	0.	0.	0.	.64	62.	22.6	C	13.6	4.8
5	3	2445.	448.	548.	3248.	448.	548.	3248.	5526.	74.	0.	0.	.59	62.	17.5	B	13.6	4.8
6	2	1890.	0.	0.	2700.	0.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	13.6	4.8
7	3	5320.	556.	516.	3256.	556.	516.	3256.	5600.	0.	0.	0.	.58	62.	17.5	B	13.6	4.8
8	2	880.	0.	0.	2740.	0.	0.	2740.	4400.	0.	0.	0.	.62	62.	22.1	C	14.9	4.8
9	2	1125.	232.	0.	2972.	232.	0.	2972.	4400.	0.	0.	0.	.68	62.	24.0	C	19.9	4.8
10	3	6320.	532.	476.	3504.	532.	476.	3504.	5597.	3.	0.	0.	.63	62.	18.8	C	19.9	4.8
11	2	2050.	0.	0.	3028.	0.	0.	3028.	4100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
12	3	2560.	760.	0.	3788.	760.	0.	3788.	5517.	83.	0.	0.	.69	62.	20.4	C	17.2	4.8
13	3	1400.	0.	460.	3788.	0.	460.	3788.	5517.	83.	0.	0.	.69	62.	20.4	C	32.3	4.8
14	2	1320.	0.	0.	3328.	0.	0.	3328.	4400.	0.	0.	0.	.76	62.	27.0	D	15.0	4.6
15	3	540.	768.	1256.	4096.	768.	1256.	4096.	5068.	532.	0.	0.	.81	62.	22.0	C	12.6	4.8
16	2	1230.	0.	0.	2840.	0.	0.	2840.	4400.	0.	0.	0.	.65	62.	22.9	C	19.9	4.8
17	2	890.	672.	0.	3512.	672.	0.	3512.	4400.	0.	0.	0.	.80	61.	28.8	D	20.4	4.2
18	3	4840.	172.	480.	3684.	172.	480.	3684.	5563.	37.	0.	0.	.66	62.	19.8	C	17.2	4.8
19	2	530.	0.	0.	3204.	0.	0.	3204.	3800.	0.	0.	0.	.84	60.	26.7	D	20.9	3.6
20	2	1040.	500.	0.	3704.	500.	0.	3704.	4381.	19.	0.	0.	.85	60.	30.9	D	21.0	3.6
21	3	2810.	788.	892.	4492.	788.	892.	4492.	5250.	350.	0.	0.	.86	62.	24.2	C	24.1	4.8
22	2	1850.	0.	0.	3600.	0.	0.	3600.	4400.	0.	0.	0.	.82	61.	29.7	D	17.7	4.0
23	3	2390.	400.	132.	4000.	400.	132.	4000.	5508.	92.	0.	0.	.73	62.	21.5	C	24.1	4.8
24	3	960.	0.	1720.	3868.	0.	1500.	3868.	5573.	27.	0.	0.	.69	62.	20.8	C	17.2	4.8
25	2	1400.	0.	2148.	2148.	0.	2148.	2148.	3600.	0.	0.	0.	.60	62.	17.3	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.86		LOWEST LOS = D	AVG = 62.	21.6		17.1	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	169. PASS-HRS	1740. VEH-HRS	2164. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	47. VEH-HRS	59. PASS-HRS	222. VEH-HRS	276. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	183. VEH-HRS	228. PASS-HRS	1962. VEH-HRS	2441. PASS-HRS
TOTAL TRAV DISTANCE =	8402. VEH-MI.	10452. PASS-MI.	107484. VEH-MI.	133710. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		21. VPMPL	
TOTAL FUEL =	509. GALLONS		6378. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		514. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	216.	47.12	17.85	0.27	1.69	0.29	2.25

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2980.	152.	2980.	2980.	152.	2980.	4100.	0.	0.	0.	.73	62.	24.0	C	13.6	4.8
2	2	1970.	0.	0.	2828.	0.	0.	2828.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
3	2	1830.	368.	240.	3196.	368.	240.	3196.	4100.	0.	0.	0.	.78	61.	26.0	D	13.7	4.4
4	2	2010.	0.	0.	2956.	0.	0.	2956.	4400.	0.	0.	0.	.67	62.	23.8	C	13.6	4.8
5	3	2445.	540.	636.	3496.	540.	636.	3496.	5402.	198.	0.	0.	.65	62.	18.8	C	13.6	4.8
6	2	1890.	0.	0.	2860.	0.	0.	2860.	4400.	0.	0.	0.	.65	62.	23.1	C	13.6	4.8
7	3	5320.	516.	764.	3376.	516.	764.	3376.	5600.	0.	0.	0.	.60	62.	18.2	C	13.6	4.8
8	2	880.	0.	0.	2612.	0.	0.	2612.	4400.	0.	0.	0.	.59	62.	21.1	C	14.9	4.8
9	2	1125.	128.	0.	2740.	128.	0.	2740.	4400.	0.	0.	0.	.62	62.	22.1	C	19.9	4.8
10	3	6320.	432.	488.	3172.	432.	488.	3172.	5600.	0.	0.	0.	.57	62.	17.1	B	19.9	4.8
11	2	2050.	0.	0.	2684.	0.	0.	2684.	4100.	0.	0.	0.	.65	62.	21.6	C	19.9	4.8
12	3	2560.	704.	0.	3388.	704.	0.	3388.	5501.	99.	0.	0.	.62	62.	18.2	C	17.2	4.8
13	3	1400.	0.	640.	3388.	0.	640.	3388.	5501.	99.	0.	0.	.62	62.	18.2	C	32.3	4.8
14	2	1320.	0.	0.	2748.	0.	0.	2748.	4400.	0.	0.	0.	.62	62.	22.2	C	14.9	4.8
15	3	540.	788.	1284.	3536.	788.	1284.	3536.	5100.	500.	0.	0.	.69	62.	19.0	C	12.6	4.8
16	2	1230.	0.	0.	2252.	0.	0.	2252.	4400.	0.	0.	0.	.51	62.	18.2	C	19.9	4.8
17	2	890.	596.	0.	2848.	596.	0.	2848.	4400.	0.	0.	0.	.65	62.	23.0	C	19.9	4.8
18	3	4840.	164.	464.	3012.	164.	464.	3012.	5592.	8.	0.	0.	.54	62.	16.2	B	17.2	4.8
19	2	530.	0.	0.	2548.	0.	0.	2548.	3800.	0.	0.	0.	.67	62.	20.5	C	19.9	4.8
20	2	1040.	428.	0.	2976.	428.	0.	2976.	4393.	7.	0.	0.	.68	62.	24.0	C	19.9	4.8
21	3	2810.	700.	916.	3676.	700.	916.	3676.	5399.	201.	0.	0.	.68	62.	19.8	C	24.1	4.8
22	2	1850.	0.	0.	2760.	0.	0.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	17.2	4.8
23	3	2390.	364.	192.	3124.	364.	192.	3124.	5600.	0.	0.	0.	.56	62.	16.8	B	24.1	4.8
24	3	960.	0.	1712.	2932.	0.	1500.	2932.	5600.	0.	0.	0.	.52	62.	15.8	B	17.2	4.8
25	2	1400.	0.	1220.	1220.	0.	1220.	1220.	3600.	0.	0.	0.	.34	62.	9.8	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.78 LOWEST LOS = D AVG = 62. 19.6 16.7 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	123. VEH-HRS	153. PASS-HRS	1863. VEH-HRS	2317. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	61. VEH-HRS	75. PASS-HRS	283. VEH-HRS	352. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	184. VEH-HRS	228. PASS-HRS	2146. VEH-HRS	2669. PASS-HRS
TOTAL TRAV DISTANCE =	7625. VEH-MI.	9486. PASS-MI.	115109. VEH-MI.	143196. PASS-MI.
AVERAGE SYSTEM SPEED =	42. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		21. VPMPL	
TOTAL FUEL =	479. GALLONS		6857. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		553. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	269.	60.62	22.96	0.35	2.17	0.38	2.90

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2548.	144.	2548.	2548.	144.	2548.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
2	2	1970.	0.	0.	2404.	0.	0.	2404.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
3	2	1830.	320.	232.	2724.	320.	232.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	13.6	4.8
4	2	2010.	0.	0.	2492.	0.	0.	2492.	4400.	0.	0.	0.	.57	62.	20.1	C	13.6	4.8
5	3	2445.	740.	448.	3232.	740.	448.	3232.	5445.	155.	0.	0.	.59	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	2784.	0.	0.	2784.	4400.	0.	0.	0.	.63	62.	22.5	C	13.6	4.8
7	3	5320.	492.	724.	3276.	492.	724.	3276.	5600.	0.	0.	0.	.59	62.	17.6	B	13.6	4.8
8	2	880.	0.	0.	2552.	0.	0.	2552.	4400.	0.	0.	0.	.58	62.	20.6	C	14.9	4.8
9	2	1125.	148.	0.	2700.	148.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	19.9	4.8
10	3	6320.	420.	392.	3120.	420.	392.	3120.	5600.	0.	0.	0.	.56	62.	16.8	B	19.9	4.8
11	2	2050.	0.	0.	2728.	0.	0.	2728.	4100.	0.	0.	0.	.67	62.	22.0	C	19.9	4.8
12	3	2560.	680.	0.	3408.	680.	0.	3408.	5532.	68.	0.	0.	.62	62.	18.3	C	17.2	4.8
13	3	1400.	0.	404.	3408.	0.	404.	3408.	5532.	68.	0.	0.	.62	62.	18.3	C	32.3	4.8
14	2	1320.	0.	0.	3004.	0.	0.	3004.	4400.	0.	0.	0.	.68	62.	24.2	C	14.9	4.8
15	3	540.	728.	1312.	3732.	728.	1312.	3732.	5128.	472.	0.	0.	.73	62.	20.1	C	12.6	4.8
16	2	1230.	0.	0.	2420.	0.	0.	2420.	4400.	0.	0.	0.	.55	62.	19.5	C	19.9	4.8
17	2	890.	452.	0.	2872.	452.	0.	2872.	4400.	0.	0.	0.	.65	62.	23.2	C	19.9	4.8
18	3	4840.	172.	404.	3044.	172.	404.	3044.	5590.	10.	0.	0.	.54	62.	16.4	B	17.2	4.8
19	2	530.	0.	0.	2640.	0.	0.	2640.	3800.	0.	0.	0.	.69	62.	21.3	C	19.9	4.8
20	2	1040.	504.	0.	3144.	504.	0.	3144.	4388.	12.	0.	0.	.72	62.	25.4	C	20.0	4.7
21	3	2810.	548.	788.	3692.	548.	788.	3692.	5527.	73.	0.	0.	.67	62.	19.8	C	24.1	4.8
22	2	1850.	0.	0.	2904.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	17.2	4.8
23	3	2390.	360.	176.	3264.	360.	176.	3264.	5574.	26.	0.	0.	.59	62.	17.5	B	24.1	4.8
24	3	960.	0.	1628.	3088.	0.	1500.	3088.	5600.	0.	0.	0.	.55	62.	16.6	B	17.2	4.8
25	2	1400.	0.	1460.	1460.	0.	1460.	1460.	3600.	0.	0.	0.	.41	62.	11.8	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.73		LOWEST LOS = C	AVG = 62.	19.1		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	120. VEH-HRS	150. PASS-HRS	1983. VEH-HRS	2467. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	71. VEH-HRS	89. PASS-HRS	354. VEH-HRS	441. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	192. VEH-HRS	238. PASS-HRS	2337. VEH-HRS	2907. PASS-HRS
TOTAL TRAV DISTANCE =	7460. VEH-MI.	9280. PASS-MI.	122569. VEH-MI.	152475. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		62. MPH.	
AVERAGE DENSITY =	19. VPMPL		21. VPMPL	
TOTAL FUEL =	469. GALLONS		7326. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		592. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	301.	71.25	26.99	0.41	2.55	0.44	3.41

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2288.	140.	2288.	2288.	140.	2288.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
2	2	1970.	0.	0.	2148.	0.	0.	2148.	4100.	0.	0.	0.	.52	62.	17.3	B	13.6	4.8
3	2	1830.	268.	164.	2416.	268.	164.	2416.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
4	2	2010.	0.	0.	2252.	0.	0.	2252.	4400.	0.	0.	0.	.51	62.	18.2	C	13.6	4.8
5	3	2445.	676.	468.	2928.	676.	468.	2928.	5474.	126.	0.	0.	.53	62.	15.7	B	13.6	4.8
6	2	1890.	0.	0.	2460.	0.	0.	2460.	4400.	0.	0.	0.	.56	62.	19.8	C	13.6	4.8
7	3	5320.	396.	688.	2856.	396.	688.	2856.	5600.	0.	0.	0.	.51	62.	15.4	B	13.6	4.8
8	2	880.	0.	0.	2168.	0.	0.	2168.	4400.	0.	0.	0.	.49	62.	17.5	B	14.9	4.8
9	2	1125.	120.	0.	2288.	120.	0.	2288.	4400.	0.	0.	0.	.52	62.	18.5	C	19.9	4.8
10	3	6320.	416.	468.	2704.	416.	468.	2704.	5600.	0.	0.	0.	.48	62.	14.5	B	19.9	4.8
11	2	2050.	0.	0.	2236.	0.	0.	2236.	4100.	0.	0.	0.	.55	62.	18.0	C	19.9	4.8
12	3	2560.	708.	0.	2944.	708.	0.	2944.	5538.	62.	0.	0.	.53	62.	15.8	B	17.2	4.8
13	3	1400.	0.	396.	2944.	0.	396.	2944.	5538.	62.	0.	0.	.53	62.	15.8	B	32.3	4.8
14	2	1320.	0.	0.	2548.	0.	0.	2548.	4400.	0.	0.	0.	.58	62.	20.5	C	14.9	4.8
15	3	540.	728.	1272.	3276.	728.	1272.	3276.	5156.	444.	0.	0.	.64	62.	17.6	B	12.6	4.8
16	2	1230.	0.	0.	2004.	0.	0.	2004.	4400.	0.	0.	0.	.46	62.	16.2	B	19.9	4.8
17	2	890.	620.	0.	2624.	620.	0.	2624.	4400.	0.	0.	0.	.60	62.	21.2	C	19.9	4.8
18	3	4840.	120.	544.	2744.	120.	544.	2744.	5600.	0.	0.	0.	.49	62.	14.8	B	17.2	4.8
19	2	530.	0.	0.	2200.	0.	0.	2200.	3800.	0.	0.	0.	.58	62.	17.7	B	19.9	4.8
20	2	1040.	416.	0.	2616.	416.	0.	2616.	4400.	0.	0.	0.	.59	62.	21.1	C	19.9	4.8
21	3	2810.	572.	796.	3188.	572.	796.	3188.	5556.	44.	0.	0.	.57	62.	17.1	B	24.1	4.8
22	2	1850.	0.	0.	2392.	0.	0.	2392.	4400.	0.	0.	0.	.54	62.	19.3	C	17.2	4.8
23	3	2390.	324.	144.	2716.	324.	144.	2716.	5600.	0.	0.	0.	.48	62.	14.6	B	24.1	4.8
24	3	960.	0.	1348.	2572.	0.	1500.	2572.	5600.	0.	0.	0.	.46	62.	13.8	B	17.2	4.8
25	2	1400.	0.	1224.	1224.	0.	1224.	1224.	3600.	0.	0.	0.	.34	62.	9.9	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.64		LOWEST LOS = C	AVG = 62.	16.6		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	105. VEH-HRS	130. PASS-HRS	2088. VEH-HRS	2597. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	70. VEH-HRS	88. PASS-HRS	425. VEH-HRS	528. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	175. VEH-HRS	218. PASS-HRS	2512. VEH-HRS	3125. PASS-HRS
TOTAL TRAV DISTANCE =	6484. VEH-MI.	8065. PASS-MI.	129052. VEH-MI.	160541. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		62. MPH.	
AVERAGE DENSITY =	17. VPMPL		21. VPMPL	
TOTAL FUEL =	413. GALLONS		7739. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		627. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	263.	70.50	26.70	0.41	2.52	0.44	3.37

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1848.	144.	1848.	1848.	144.	1848.	4100.	0.	0.	0.	.45	62.	14.9	B	13.6	4.8
2	2	1970.	0.	0.	1704.	0.	0.	1704.	4100.	0.	0.	0.	.42	62.	13.7	B	13.6	4.8
3	2	1830.	256.	188.	1960.	256.	188.	1960.	4100.	0.	0.	0.	.48	62.	15.8	B	13.6	4.8
4	2	2010.	0.	0.	1772.	0.	0.	1772.	4400.	0.	0.	0.	.40	62.	14.3	B	13.6	4.8
5	3	2445.	528.	396.	2300.	528.	396.	2300.	5600.	0.	0.	0.	.41	62.	12.4	B	13.6	4.8
6	2	1890.	0.	0.	1904.	0.	0.	1904.	4400.	0.	0.	0.	.43	62.	15.4	B	13.6	4.8
7	3	5320.	392.	448.	2296.	392.	448.	2296.	5600.	0.	0.	0.	.41	62.	12.3	B	13.6	4.8
8	2	880.	0.	0.	1848.	0.	0.	1848.	4400.	0.	0.	0.	.42	62.	14.9	B	14.9	4.8
9	2	1125.	108.	0.	1956.	108.	0.	1956.	4400.	0.	0.	0.	.44	62.	15.8	B	19.9	4.8
10	3	6320.	364.	260.	2320.	364.	260.	2320.	5600.	0.	0.	0.	.41	62.	12.5	B	19.9	4.8
11	2	2050.	0.	0.	2060.	0.	0.	2060.	4100.	0.	0.	0.	.50	62.	16.6	B	19.9	4.8
12	3	2560.	592.	0.	2652.	592.	0.	2652.	5558.	42.	0.	0.	.48	62.	14.3	B	17.2	4.8
13	3	1400.	0.	372.	2652.	0.	372.	2652.	5558.	42.	0.	0.	.48	62.	14.3	B	32.3	4.8
14	2	1320.	0.	0.	2280.	0.	0.	2280.	4400.	0.	0.	0.	.52	62.	18.4	C	14.9	4.8
15	3	540.	652.	1016.	2932.	652.	1016.	2932.	5176.	424.	0.	0.	.57	62.	15.8	B	12.6	4.8
16	2	1230.	0.	0.	1916.	0.	0.	1916.	4400.	0.	0.	0.	.44	62.	15.5	B	19.9	4.8
17	2	890.	596.	0.	2512.	596.	0.	2512.	4400.	0.	0.	0.	.57	62.	20.3	C	19.9	4.8
18	3	4840.	120.	436.	2632.	120.	436.	2632.	5600.	0.	0.	0.	.47	62.	14.2	B	17.2	4.8
19	2	530.	0.	0.	2196.	0.	0.	2196.	3800.	0.	0.	0.	.58	62.	17.7	B	19.9	4.8
20	2	1040.	392.	0.	2588.	392.	0.	2588.	4400.	0.	0.	0.	.59	62.	20.9	C	19.9	4.8
21	3	2810.	440.	732.	3028.	440.	732.	3028.	5579.	21.	0.	0.	.54	62.	16.3	B	24.1	4.8
22	2	1850.	0.	0.	2296.	0.	0.	2296.	4400.	0.	0.	0.	.52	62.	18.5	C	17.2	4.8
23	3	2390.	272.	112.	2568.	272.	112.	2568.	5600.	0.	0.	0.	.46	62.	13.8	B	24.1	4.8
24	3	960.	0.	1412.	2456.	0.	1500.	2456.	5600.	0.	0.	0.	.44	62.	13.2	B	17.2	4.8
25	2	1400.	0.	1044.	1044.	0.	1044.	1044.	3600.	0.	0.	0.	.29	62.	8.4	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.59		LOWEST LOS = C	AVG = 62.	14.5		17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	92. VEH-HRS	114. PASS-HRS	2179. VEH-HRS	2711. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	63. VEH-HRS	78. PASS-HRS	488. VEH-HRS	607. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	155. VEH-HRS	192. PASS-HRS	2667. VEH-HRS	3317. PASS-HRS
TOTAL TRAV DISTANCE =	5679. VEH-MI.	7064. PASS-MI.	134731. VEH-MI.	167605. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		62. MPH.	
AVERAGE DENSITY =	14. VPMPL		20. VPMPL	
TOTAL FUEL =	358. GALLONS		8097. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		657. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	241.	63.00	23.86	0.37	2.25	0.39	3.01

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1944.	100.	1944.	1944.	100.	1944.	4100.	0.	0.	0.	.47	62.	15.7	B	13.6	4.8
2	2	1970.	0.	0.	1844.	0.	0.	1844.	4100.	0.	0.	0.	.45	62.	14.9	B	13.6	4.8
3	2	1830.	252.	128.	2096.	252.	128.	2096.	4100.	0.	0.	0.	.51	62.	16.9	B	13.6	4.8
4	2	2010.	0.	0.	1968.	0.	0.	1968.	4400.	0.	0.	0.	.45	62.	15.9	B	13.6	4.8
5	3	2445.	440.	412.	2408.	440.	412.	2408.	5600.	0.	0.	0.	.43	62.	12.9	B	13.6	4.8
6	2	1890.	0.	0.	1996.	0.	0.	1996.	4400.	0.	0.	0.	.45	62.	16.1	B	13.6	4.8
7	3	5320.	308.	576.	2304.	308.	576.	2304.	5600.	0.	0.	0.	.41	62.	12.4	B	13.6	4.8
8	2	880.	0.	0.	1728.	0.	0.	1728.	4400.	0.	0.	0.	.39	62.	13.9	B	14.9	4.8
9	2	1125.	132.	0.	1860.	132.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
10	3	6320.	376.	352.	2236.	376.	352.	2236.	5600.	0.	0.	0.	.40	62.	12.0	B	19.9	4.8
11	2	2050.	0.	0.	1884.	0.	0.	1884.	4100.	0.	0.	0.	.46	62.	15.2	B	19.9	4.8
12	3	2560.	516.	0.	2400.	516.	0.	2400.	5576.	24.	0.	0.	.43	62.	12.9	B	17.2	4.8
13	3	1400.	0.	280.	2400.	0.	280.	2400.	5576.	24.	0.	0.	.43	62.	12.9	B	32.3	4.8
14	2	1320.	0.	0.	2120.	0.	0.	2120.	4400.	0.	0.	0.	.48	62.	17.1	B	14.9	4.8
15	3	540.	656.	1000.	2776.	656.	1000.	2776.	5180.	420.	0.	0.	.54	62.	14.9	B	12.6	4.8
16	2	1230.	0.	0.	1776.	0.	0.	1776.	4400.	0.	0.	0.	.40	62.	14.3	B	19.9	4.8
17	2	890.	560.	0.	2336.	560.	0.	2336.	4400.	0.	0.	0.	.53	62.	18.8	C	19.9	4.8
18	3	4840.	192.	412.	2528.	192.	412.	2528.	5600.	0.	0.	0.	.45	62.	13.6	B	17.2	4.8
19	2	530.	0.	0.	2116.	0.	0.	2116.	3800.	0.	0.	0.	.56	62.	17.1	B	19.9	4.8
20	2	1040.	408.	0.	2524.	408.	0.	2524.	4400.	0.	0.	0.	.57	62.	20.4	C	19.9	4.8
21	3	2810.	456.	736.	2980.	456.	736.	2980.	5582.	18.	0.	0.	.53	62.	16.0	B	24.1	4.8
22	2	1850.	0.	0.	2244.	0.	0.	2244.	4400.	0.	0.	0.	.51	62.	18.1	C	17.2	4.8
23	3	2390.	232.	108.	2476.	232.	108.	2476.	5600.	0.	0.	0.	.44	62.	13.3	B	24.1	4.8
24	3	960.	0.	1240.	2368.	0.	1500.	2368.	5600.	0.	0.	0.	.42	62.	12.7	B	17.2	4.8
25	2	1400.	0.	1128.	1128.	0.	1128.	1128.	3600.	0.	0.	0.	.31	62.	9.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES									MAX(V/C) = 0.57	LOWEST LOS = C	AVG = 62.	14.3		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	90. VEH-HRS	112. PASS-HRS	2269. VEH-HRS	2823. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	52. VEH-HRS	65. PASS-HRS	540. VEH-HRS	671. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	177. PASS-HRS	2809. VEH-HRS	3494. PASS-HRS
TOTAL TRAV DISTANCE =	5582. VEH-MI.	6944. PASS-MI.	140313. VEH-MI.	174550. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		62. MPH.	
AVERAGE DENSITY =	14. VPMPL		20. VPMPL	
TOTAL FUEL =	350. GALLONS		8447. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		686. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	176.	52.12	19.74	0.30	1.87	0.33	2.49

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1748.	108.	1748.	1748.	108.	1748.	4100.	0.	0.	0.	.43	62.	14.1	B	13.6	4.8
2	2	1970.	0.	0.	1640.	0.	0.	1640.	4100.	0.	0.	0.	.40	62.	13.2	B	13.6	4.8
3	2	1830.	280.	128.	1920.	280.	128.	1920.	4100.	0.	0.	0.	.47	62.	15.5	B	13.6	4.8
4	2	2010.	0.	0.	1792.	0.	0.	1792.	4400.	0.	0.	0.	.41	62.	14.5	B	13.6	4.8
5	3	2445.	488.	396.	2280.	488.	396.	2280.	5600.	0.	0.	0.	.41	62.	12.3	B	13.6	4.8
6	2	1890.	0.	0.	1884.	0.	0.	1884.	4400.	0.	0.	0.	.43	62.	15.2	B	13.6	4.8
7	3	5320.	356.	456.	2240.	356.	456.	2240.	5600.	0.	0.	0.	.40	62.	12.0	B	13.6	4.8
8	2	880.	0.	0.	1784.	0.	0.	1784.	4400.	0.	0.	0.	.41	62.	14.4	B	14.9	4.8
9	2	1125.	200.	0.	1984.	200.	0.	1984.	4400.	0.	0.	0.	.45	62.	16.0	B	19.9	4.8
10	3	6320.	280.	284.	2264.	280.	284.	2264.	5600.	0.	0.	0.	.40	62.	12.2	B	19.9	4.8
11	2	2050.	0.	0.	1980.	0.	0.	1980.	4100.	0.	0.	0.	.48	62.	16.0	B	19.9	4.8
12	3	2560.	468.	0.	2448.	468.	0.	2448.	5571.	29.	0.	0.	.44	62.	13.2	B	17.2	4.8
13	3	1400.	0.	324.	2448.	0.	324.	2448.	5571.	29.	0.	0.	.44	62.	13.2	B	32.3	4.8
14	2	1320.	0.	0.	2124.	0.	0.	2124.	4400.	0.	0.	0.	.48	62.	17.1	B	14.9	4.8
15	3	540.	568.	1004.	2692.	568.	1004.	2692.	5244.	356.	0.	0.	.51	62.	14.5	B	12.6	4.8
16	2	1230.	0.	0.	1688.	0.	0.	1688.	4400.	0.	0.	0.	.38	62.	13.6	B	19.9	4.8
17	2	890.	540.	0.	2228.	540.	0.	2228.	4400.	0.	0.	0.	.51	62.	18.0	B	19.9	4.8
18	3	4840.	200.	380.	2428.	200.	380.	2428.	5600.	0.	0.	0.	.43	62.	13.1	B	17.2	4.8
19	2	530.	0.	0.	2048.	0.	0.	2048.	3800.	0.	0.	0.	.54	62.	16.5	B	19.9	4.8
20	2	1040.	300.	0.	2348.	300.	0.	2348.	4400.	0.	0.	0.	.53	62.	18.9	C	19.9	4.8
21	3	2810.	372.	576.	2720.	372.	576.	2720.	5588.	12.	0.	0.	.49	62.	14.6	B	24.1	4.8
22	2	1850.	0.	0.	2144.	0.	0.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	17.2	4.8
23	3	2390.	244.	124.	2388.	244.	124.	2388.	5600.	0.	0.	0.	.43	62.	12.8	B	24.1	4.8
24	3	960.	0.	1016.	2264.	0.	1500.	2264.	5600.	0.	0.	0.	.40	62.	12.2	B	17.2	4.8
25	2	1400.	0.	1248.	1248.	0.	1248.	1248.	3600.	0.	0.	0.	.35	62.	10.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.54		LOWEST LOS = C	AVG = 62.	13.8		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	87. VEH-HRS	108. PASS-HRS	2356. VEH-HRS	2931. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	29. VEH-HRS	36. PASS-HRS	569. VEH-HRS	707. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	116. VEH-HRS	144. PASS-HRS	2925. VEH-HRS	3639. PASS-HRS
TOTAL TRAV DISTANCE =	5400. VEH-MI.	6717. PASS-MI.	145713. VEH-MI.	181267. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		62. MPH.	
AVERAGE DENSITY =	14. VPMPL		20. VPMPL	
TOTAL FUEL =	330. GALLONS		8777. GALLONS	
TOTAL EMISSIONS =	27. KILOGRAMS		713. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	55.	28.87	10.94	0.17	1.03	0.18	1.38

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1632.	76.	1632.	1632.	76.	1632.	4100.	0.	0.	0.	.40	62.	13.2	B	13.6	4.8
2	2	1970.	0.	0.	1556.	0.	0.	1556.	4100.	0.	0.	0.	.38	62.	12.5	B	13.6	4.8
3	2	1830.	236.	156.	1792.	236.	156.	1792.	4100.	0.	0.	0.	.44	62.	14.5	B	13.6	4.8
4	2	2010.	0.	0.	1636.	0.	0.	1636.	4400.	0.	0.	0.	.37	62.	13.2	B	13.6	4.8
5	3	2445.	312.	328.	1948.	312.	328.	1948.	5600.	0.	0.	0.	.35	62.	10.5	A	13.6	4.8
6	2	1890.	0.	0.	1620.	0.	0.	1620.	4400.	0.	0.	0.	.37	62.	13.1	B	13.6	4.8
7	3	5320.	408.	476.	2028.	408.	476.	2028.	5600.	0.	0.	0.	.36	62.	10.9	A	13.6	4.8
8	2	880.	0.	0.	1552.	0.	0.	1552.	4400.	0.	0.	0.	.35	62.	12.5	B	14.9	4.8
9	2	1125.	144.	0.	1696.	144.	0.	1696.	4400.	0.	0.	0.	.39	62.	13.7	B	19.9	4.8
10	3	6320.	312.	384.	2008.	312.	384.	2008.	5600.	0.	0.	0.	.36	62.	10.8	A	19.9	4.8
11	2	2050.	0.	0.	1624.	0.	0.	1624.	4100.	0.	0.	0.	.40	62.	13.1	B	19.9	4.8
12	3	2560.	412.	0.	2036.	412.	0.	2036.	5600.	0.	0.	0.	.36	62.	10.9	A	17.2	4.8
13	3	1400.	0.	384.	2036.	0.	384.	2036.	5600.	0.	0.	0.	.36	62.	10.9	A	32.3	4.8
14	2	1320.	0.	0.	1652.	0.	0.	1652.	4400.	0.	0.	0.	.38	62.	13.3	B	14.9	4.8
15	3	540.	688.	868.	2340.	688.	868.	2340.	5168.	432.	0.	0.	.45	62.	12.6	B	12.6	4.8
16	2	1230.	0.	0.	1472.	0.	0.	1472.	4400.	0.	0.	0.	.33	62.	11.9	B	19.9	4.8
17	2	890.	496.	0.	1968.	496.	0.	1968.	4400.	0.	0.	0.	.45	62.	15.9	B	19.9	4.8
18	3	4840.	192.	332.	2160.	192.	332.	2160.	5600.	0.	0.	0.	.39	62.	11.6	B	17.2	4.8
19	2	530.	0.	0.	1828.	0.	0.	1828.	3800.	0.	0.	0.	.48	62.	14.7	B	19.9	4.8
20	2	1040.	304.	0.	2132.	304.	0.	2132.	4400.	0.	0.	0.	.48	62.	17.2	B	19.9	4.8
21	3	2810.	372.	732.	2504.	372.	732.	2504.	5600.	0.	0.	0.	.45	62.	13.5	B	24.1	4.8
22	2	1850.	0.	0.	1772.	0.	0.	1772.	4400.	0.	0.	0.	.40	62.	14.3	B	17.2	4.8
23	3	2390.	192.	96.	1964.	192.	96.	1964.	5600.	0.	0.	0.	.35	62.	10.6	A	24.1	4.8
24	3	960.	0.	1132.	1868.	0.	1132.	1868.	5600.	0.	0.	0.	.33	62.	10.0	A	17.2	4.8
25	2	1400.	0.	736.	736.	0.	736.	736.	3600.	0.	0.	0.	.20	62.	5.9	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.48 LOWEST LOS = B AVG = 62. 12.0 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	76. VEH-HRS	95. PASS-HRS	2432. VEH-HRS	3026. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	7. VEH-HRS	9. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	83. VEH-HRS	103. PASS-HRS	3008. VEH-HRS	3742. PASS-HRS
TOTAL TRAV DISTANCE =	4717. VEH-MI.	5868. PASS-MI.	150430. VEH-MI.	187135. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		62. MPH.	
AVERAGE DENSITY =	12. VPMPL		19. VPMPL	
TOTAL FUEL =	282. GALLONS		9059. GALLONS	
TOTAL EMISSIONS =	23. KILOGRAMS		736. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	0.	6.87	2.60	0.04	0.25	0.04	0.33

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1188.	68.	1188.	1188.	68.	1188.	4100.	0.	0.	0.	.29	62.	9.6	A	13.6	4.8
2	2	1970.	0.	0.	1120.	0.	0.	1120.	4100.	0.	0.	0.	.27	62.	9.0	A	13.6	4.8
3	2	1830.	240.	108.	1360.	240.	108.	1360.	4100.	0.	0.	0.	.33	62.	11.0	A	13.6	4.8
4	2	2010.	0.	0.	1252.	0.	0.	1252.	4400.	0.	0.	0.	.28	62.	10.1	A	13.6	4.8
5	3	2445.	328.	388.	1580.	328.	388.	1580.	5600.	0.	0.	0.	.28	62.	8.5	A	13.6	4.8
6	2	1890.	0.	0.	1192.	0.	0.	1192.	4400.	0.	0.	0.	.27	62.	9.6	A	13.6	4.8
7	3	5320.	540.	364.	1732.	540.	364.	1732.	5600.	0.	0.	0.	.31	62.	9.3	A	13.6	4.8
8	2	880.	0.	0.	1368.	0.	0.	1368.	4400.	0.	0.	0.	.31	62.	11.0	B	14.9	4.8
9	2	1125.	116.	0.	1484.	116.	0.	1484.	4400.	0.	0.	0.	.34	62.	12.0	B	19.9	4.8
10	3	6320.	304.	304.	1788.	304.	304.	1788.	5600.	0.	0.	0.	.32	62.	9.6	A	19.9	4.8
11	2	2050.	0.	0.	1484.	0.	0.	1484.	4100.	0.	0.	0.	.36	62.	12.0	B	19.9	4.8
12	3	2560.	556.	0.	2040.	556.	0.	2040.	5600.	0.	0.	0.	.36	62.	11.0	A	17.2	4.8
13	3	1400.	0.	304.	2040.	0.	304.	2040.	5600.	0.	0.	0.	.36	62.	11.0	A	32.3	4.8
14	2	1320.	0.	0.	1736.	0.	0.	1736.	4400.	0.	0.	0.	.39	62.	14.0	B	14.9	4.8
15	3	540.	616.	1008.	2352.	616.	1008.	2352.	5248.	352.	0.	0.	.45	62.	12.6	B	12.6	4.8
16	2	1230.	0.	0.	1344.	0.	0.	1344.	4400.	0.	0.	0.	.31	62.	10.8	A	19.9	4.8
17	2	890.	640.	0.	1984.	640.	0.	1984.	4400.	0.	0.	0.	.45	62.	16.0	B	19.9	4.8
18	3	4840.	128.	384.	2112.	128.	384.	2112.	5600.	0.	0.	0.	.38	62.	11.4	B	17.2	4.8
19	2	530.	0.	0.	1728.	0.	0.	1728.	3800.	0.	0.	0.	.45	62.	13.9	B	19.9	4.8
20	2	1040.	256.	0.	1984.	256.	0.	1984.	4400.	0.	0.	0.	.45	62.	16.0	B	19.9	4.8
21	3	2810.	376.	556.	2360.	376.	556.	2360.	5600.	0.	0.	0.	.42	62.	12.7	B	24.1	4.8
22	2	1850.	0.	0.	1804.	0.	0.	1804.	4400.	0.	0.	0.	.41	62.	14.5	B	17.2	4.8
23	3	2390.	220.	112.	2024.	220.	112.	2024.	5600.	0.	0.	0.	.36	62.	10.9	A	24.1	4.8
24	3	960.	0.	1036.	1912.	0.	1036.	1912.	5600.	0.	0.	0.	.34	62.	10.3	A	17.2	4.8
25	2	1400.	0.	876.	876.	0.	876.	876.	3600.	0.	0.	0.	.24	62.	7.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.45		LOWEST LOS = B	AVG = 62.	10.8		17.1	4.8

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 21 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	69. VEH-HRS	85. PASS-HRS	2501. VEH-HRS	3111. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	69. VEH-HRS	85. PASS-HRS	3077. VEH-HRS	3827. PASS-HRS
TOTAL TRAV DISTANCE =	4258. VEH-MI.	5297. PASS-MI.	154688. VEH-MI.	192432. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	11. VPMPL		19. VPMPL	
TOTAL FUEL =	248. GALLONS		9307. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		757. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1192.	60.	1192.	1192.	60.	1192.	4100.	0.	0.	0.	.29	62.	9.6	A	13.6	4.8
2	2	1970.	0.	0.	1132.	0.	0.	1132.	4100.	0.	0.	0.	.28	62.	9.1	A	13.6	4.8
3	2	1830.	164.	96.	1296.	164.	96.	1296.	4100.	0.	0.	0.	.32	62.	10.5	A	13.6	4.8
4	2	2010.	0.	0.	1200.	0.	0.	1200.	4400.	0.	0.	0.	.27	62.	9.7	A	13.6	4.8
5	3	2445.	252.	232.	1452.	252.	232.	1452.	5600.	0.	0.	0.	.26	62.	7.8	A	13.6	4.8
6	2	1890.	0.	0.	1220.	0.	0.	1220.	4400.	0.	0.	0.	.28	62.	9.8	A	13.6	4.8
7	3	5320.	288.	320.	1508.	288.	320.	1508.	5600.	0.	0.	0.	.27	62.	8.1	A	13.6	4.8
8	2	880.	0.	0.	1188.	0.	0.	1188.	4400.	0.	0.	0.	.27	62.	9.6	A	14.9	4.8
9	2	1125.	188.	0.	1376.	188.	0.	1376.	4400.	0.	0.	0.	.31	62.	11.1	B	19.9	4.8
10	3	6320.	332.	240.	1708.	332.	240.	1708.	5600.	0.	0.	0.	.30	62.	9.2	A	19.9	4.8
11	2	2050.	0.	0.	1468.	0.	0.	1468.	4100.	0.	0.	0.	.36	62.	11.8	B	19.9	4.8
12	3	2560.	524.	0.	1992.	524.	0.	1992.	5600.	0.	0.	0.	.36	62.	10.7	A	17.2	4.8
13	3	1400.	0.	232.	1992.	0.	232.	1992.	5600.	0.	0.	0.	.36	62.	10.7	A	32.3	4.8
14	2	1320.	0.	0.	1760.	0.	0.	1760.	4400.	0.	0.	0.	.40	62.	14.2	B	14.9	4.8
15	3	540.	528.	788.	2288.	528.	788.	2288.	5252.	348.	0.	0.	.44	62.	12.3	B	12.6	4.8
16	2	1230.	0.	0.	1500.	0.	0.	1500.	4400.	0.	0.	0.	.34	62.	12.1	B	19.9	4.8
17	2	890.	588.	0.	2088.	588.	0.	2088.	4400.	0.	0.	0.	.47	62.	16.8	B	19.9	4.8
18	3	4840.	196.	416.	2284.	196.	416.	2284.	5600.	0.	0.	0.	.41	62.	12.3	B	17.2	4.8
19	2	530.	0.	0.	1868.	0.	0.	1868.	3800.	0.	0.	0.	.49	62.	15.1	B	19.9	4.8
20	2	1040.	276.	0.	2144.	276.	0.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	19.9	4.8
21	3	2810.	356.	644.	2500.	356.	644.	2500.	5600.	0.	0.	0.	.45	62.	13.4	B	24.1	4.8
22	2	1850.	0.	0.	1856.	0.	0.	1856.	4400.	0.	0.	0.	.42	62.	15.0	B	17.2	4.8
23	3	2390.	228.	68.	2084.	228.	68.	2084.	5600.	0.	0.	0.	.37	62.	11.2	B	24.1	4.8
24	3	960.	0.	908.	2016.	0.	908.	2016.	5600.	0.	0.	0.	.36	62.	10.8	A	17.2	4.8
25	2	1400.	0.	1108.	1108.	0.	1108.	1108.	3600.	0.	0.	0.	.31	62.	8.9	A	19.9	4.8
TOTAL		53000. =	10.0 MILES							MAX(V/C) = 0.49	LOWEST LOS = B		AVG = 62.		10.8		17.3	4.8

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 22 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	68. VEH-HRS	85. PASS-HRS	2570. VEH-HRS	3197. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	68. VEH-HRS	85. PASS-HRS	3145. VEH-HRS	3912. PASS-HRS
TOTAL TRAV DISTANCE =	4247. VEH-MI.	5283. PASS-MI.	158935. VEH-MI.	197715. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	11. VPMPL		19. VPMPL	
TOTAL FUEL =	246. GALLONS		9553. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		777. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	872.	76.	872.	872.	76.	872.	4100.	0.	0.	0.	.21	62.	7.0	A	13.6	4.8
2	2	1970.	0.	0.	796.	0.	0.	796.	4100.	0.	0.	0.	.19	62.	6.4	A	13.6	4.8
3	2	1830.	164.	56.	960.	164.	56.	960.	4100.	0.	0.	0.	.23	62.	7.7	A	13.6	4.8
4	2	2010.	0.	0.	904.	0.	0.	904.	4400.	0.	0.	0.	.21	62.	7.3	A	13.6	4.8
5	3	2445.	312.	156.	1216.	312.	156.	1216.	5600.	0.	0.	0.	.22	62.	6.5	A	13.6	4.8
6	2	1890.	0.	0.	1060.	0.	0.	1060.	4400.	0.	0.	0.	.24	62.	8.5	A	13.6	4.8
7	3	5320.	356.	352.	1416.	356.	352.	1416.	5600.	0.	0.	0.	.25	62.	7.6	A	13.6	4.8
8	2	880.	0.	0.	1064.	0.	0.	1064.	4400.	0.	0.	0.	.24	62.	8.6	A	14.9	4.8
9	2	1125.	152.	0.	1216.	152.	0.	1216.	4400.	0.	0.	0.	.28	62.	9.8	A	19.9	4.8
10	3	6320.	284.	172.	1500.	284.	172.	1500.	5600.	0.	0.	0.	.27	62.	8.1	A	19.9	4.8
11	2	2050.	0.	0.	1328.	0.	0.	1328.	4100.	0.	0.	0.	.32	62.	10.7	A	19.9	4.8
12	3	2560.	404.	0.	1732.	404.	0.	1732.	5600.	0.	0.	0.	.31	62.	9.3	A	17.2	4.8
13	3	1400.	0.	240.	1732.	0.	240.	1732.	5600.	0.	0.	0.	.31	62.	9.3	A	32.3	4.8
14	2	1320.	0.	0.	1492.	0.	0.	1492.	4400.	0.	0.	0.	.34	62.	12.0	B	14.9	4.8
15	3	540.	560.	812.	2052.	560.	812.	2052.	5260.	340.	0.	0.	.39	62.	11.0	B	12.6	4.8
16	2	1230.	0.	0.	1240.	0.	0.	1240.	4400.	0.	0.	0.	.28	62.	10.0	A	19.9	4.8
17	2	890.	420.	0.	1660.	420.	0.	1660.	4400.	0.	0.	0.	.38	62.	13.4	B	19.9	4.8
18	3	4840.	168.	288.	1828.	168.	288.	1828.	5600.	0.	0.	0.	.33	62.	9.8	A	17.2	4.8
19	2	530.	0.	0.	1540.	0.	0.	1540.	3800.	0.	0.	0.	.41	62.	12.4	B	19.9	4.8
20	2	1040.	300.	0.	1840.	300.	0.	1840.	4400.	0.	0.	0.	.42	62.	14.8	B	19.9	4.8
21	3	2810.	260.	616.	2100.	260.	616.	2100.	5600.	0.	0.	0.	.37	62.	11.3	B	24.1	4.8
22	2	1850.	0.	0.	1484.	0.	0.	1484.	4400.	0.	0.	0.	.34	62.	12.0	B	17.2	4.8
23	3	2390.	212.	68.	1696.	212.	68.	1696.	5600.	0.	0.	0.	.30	62.	9.1	A	24.1	4.8
24	3	960.	0.	864.	1628.	0.	864.	1628.	5600.	0.	0.	0.	.29	62.	8.8	A	17.2	4.8
25	2	1400.	0.	764.	764.	0.	764.	764.	3600.	0.	0.	0.	.21	62.	6.2	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.42		LOWEST LOS = B	AVG = 62.	9.0		17.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	57. VEH-HRS	71. PASS-HRS	2627. VEH-HRS	3268. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	57. VEH-HRS	71. PASS-HRS	3202. VEH-HRS	3984. PASS-HRS
TOTAL TRAV DISTANCE =	3550. VEH-MI.	4416. PASS-MI.	162484. VEH-MI.	202131. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	9. VPMPL		18. VPMPL	
TOTAL FUEL =	205. GALLONS		9758. GALLONS	
TOTAL EMISSIONS =	17. KILOGRAMS		794. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	900.	60.	900.	900.	60.	900.	4100.	0.	0.	0.	.22	62.	7.3	A	13.6	4.8
2	2	1970.	0.	0.	840.	0.	0.	840.	4100.	0.	0.	0.	.20	62.	6.8	A	13.6	4.8
3	2	1830.	112.	64.	952.	112.	64.	952.	4100.	0.	0.	0.	.23	62.	7.7	A	13.6	4.8
4	2	2010.	0.	0.	888.	0.	0.	888.	4400.	0.	0.	0.	.20	62.	7.2	A	13.6	4.8
5	3	2445.	132.	192.	1020.	132.	192.	1020.	5600.	0.	0.	0.	.18	62.	5.5	A	13.6	4.8
6	2	1890.	0.	0.	828.	0.	0.	828.	4400.	0.	0.	0.	.19	62.	6.7	A	13.6	4.8
7	3	5320.	288.	248.	1116.	288.	248.	1116.	5600.	0.	0.	0.	.20	62.	6.0	A	13.6	4.8
8	2	880.	0.	0.	868.	0.	0.	868.	4400.	0.	0.	0.	.20	62.	7.0	A	14.9	4.8
9	2	1125.	104.	0.	972.	104.	0.	972.	4400.	0.	0.	0.	.22	62.	7.8	A	19.9	4.8
10	3	6320.	152.	144.	1124.	152.	144.	1124.	5600.	0.	0.	0.	.20	62.	6.0	A	19.9	4.8
11	2	2050.	0.	0.	980.	0.	0.	980.	4100.	0.	0.	0.	.24	62.	7.9	A	19.9	4.8
12	3	2560.	408.	0.	1388.	408.	0.	1388.	5600.	0.	0.	0.	.25	62.	7.5	A	17.2	4.8
13	3	1400.	0.	220.	1388.	0.	220.	1388.	5600.	0.	0.	0.	.25	62.	7.5	A	32.3	4.8
14	2	1320.	0.	0.	1168.	0.	0.	1168.	4400.	0.	0.	0.	.27	62.	9.4	A	14.9	4.8
15	3	540.	460.	648.	1628.	460.	648.	1628.	5324.	276.	0.	0.	.31	62.	8.8	A	12.6	4.8
16	2	1230.	0.	0.	980.	0.	0.	980.	4400.	0.	0.	0.	.22	62.	7.9	A	19.9	4.8
17	2	890.	412.	0.	1392.	412.	0.	1392.	4400.	0.	0.	0.	.32	62.	11.2	B	19.9	4.8
18	3	4840.	116.	192.	1508.	116.	192.	1508.	5600.	0.	0.	0.	.27	62.	8.1	A	17.2	4.8
19	2	530.	0.	0.	1316.	0.	0.	1316.	3800.	0.	0.	0.	.35	62.	10.6	A	19.9	4.8
20	2	1040.	256.	0.	1572.	256.	0.	1572.	4400.	0.	0.	0.	.36	62.	12.7	B	19.9	4.8
21	3	2810.	224.	484.	1796.	224.	484.	1796.	5600.	0.	0.	0.	.32	62.	9.7	A	24.1	4.8
22	2	1850.	0.	0.	1312.	0.	0.	1312.	4400.	0.	0.	0.	.30	62.	10.6	A	17.2	4.8
23	3	2390.	172.	28.	1484.	172.	28.	1484.	5600.	0.	0.	0.	.26	62.	8.0	A	24.1	4.8
24	3	960.	0.	820.	1456.	0.	820.	1456.	5600.	0.	0.	0.	.26	62.	7.8	A	17.2	4.8
25	2	1400.	0.	636.	636.	0.	636.	636.	3600.	0.	0.	0.	.18	62.	5.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.36		LOWEST LOS = B	AVG = 62.	7.5		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	48. VEH-HRS	59. PASS-HRS	2675. VEH-HRS	3327. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	48. VEH-HRS	59. PASS-HRS	3250. VEH-HRS	4043. PASS-HRS
TOTAL TRAV DISTANCE =	2960. VEH-MI.	3682. PASS-MI.	165444. VEH-MI.	205813. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	8. VPMPL		18. VPMPL	
TOTAL FUEL =	172. GALLONS		9930. GALLONS	
TOTAL EMISSIONS =	14. KILOGRAMS		808. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	137.	171.	0.	0.	137.	171.	8463.	10529.	61.7	492.	1.	27.	11.	6:00
2	143.	178.	0.	0.	143.	178.	8787.	10931.	61.5	509.	2.	27.	11.	6:15
3	145.	180.	3.	4.	148.	184.	8910.	11084.	60.4	520.	2.	28.	11.	6:30
4	130.	162.	10.	12.	140.	174.	8070.	10039.	57.6	477.	1.	27.	11.	6:45
5	143.	178.	13.	16.	156.	193.	8808.	10957.	56.6	519.	2.	28.	11.	7:00
6	134.	167.	14.	18.	149.	185.	8284.	10305.	55.8	489.	2.	27.	11.	7:15
7	143.	178.	18.	23.	161.	200.	8755.	10891.	54.4	512.	2.	27.	11.	7:30
8	128.	160.	21.	26.	149.	186.	7964.	9908.	53.4	477.	2.	27.	10.	7:45
9	128.	159.	21.	26.	149.	185.	7927.	9861.	53.3	476.	2.	27.	10.	8:00
10	121.	151.	20.	25.	141.	176.	7532.	9370.	53.2	455.	1.	26.	10.	8:15
11	130.	162.	23.	28.	153.	190.	8052.	10017.	52.7	486.	2.	27.	11.	8:30
12	121.	151.	33.	41.	154.	192.	7528.	9365.	48.9	458.	2.	26.	10.	8:45
13	136.	169.	47.	59.	183.	228.	8402.	10452.	45.9	509.	2.	29.	11.	9:00
14	123.	153.	61.	75.	184.	228.	7625.	9486.	41.5	479.	2.	27.	10.	9:15
15	120.	150.	71.	89.	192.	238.	7460.	9280.	38.9	469.	2.	27.	10.	9:30
16	105.	130.	70.	88.	175.	218.	6484.	8065.	37.0	413.	2.	24.	9.	9:45
17	92.	114.	63.	78.	155.	192.	5679.	7064.	36.7	358.	1.	21.	8.	10:00
18	90.	112.	52.	65.	142.	177.	5582.	6944.	39.3	350.	1.	20.	8.	10:15
19	87.	108.	29.	36.	116.	144.	5400.	6717.	46.6	330.	1.	19.	7.	10:30
20	76.	95.	7.	9.	83.	103.	4717.	5868.	56.9	282.	1.	16.	6.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	69.	85.	0.	0.	69.	85.	4258.	5297.	62.0	248.	1.	14.	6.	11:00
22	68.	85.	0.	0.	68.	85.	4247.	5283.	62.0	246.	1.	14.	6.	11:15
23	57.	71.	0.	0.	57.	71.	3550.	4416.	62.0	205.	1.	12.	5.	11:30
24	48.	59.	0.	0.	48.	59.	2960.	3682.	62.0	172.	1.	10.	4.	11:45
TOTAL	2675.	3327.	575.	716.	3250.	4043.	165444.	205813.	61.9	9930.	32.	559.	217.	

Opening Year (2025) Interim Build
(Aux Lanes Only)
Southbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	752.	0.	752.	752.	0.	752.	3850.	0.	0.	0.	.20	50.	7.5	A	17.4	2.3
2	2	2070.	212.	0.	964.	212.	0.	964.	3850.	0.	0.	0.	.25	50.	9.6	A	15.9	2.3
3	3	2300.	352.	48.	1316.	352.	48.	1316.	5700.	0.	0.	0.	.23	55.	8.0	A	14.0	2.4
4	3	1020.	0.	0.	1268.	0.	0.	1268.	5700.	0.	0.	0.	.22	62.	6.8	A	19.9	4.8
5	3	710.	84.	0.	1352.	84.	0.	1352.	5700.	0.	0.	0.	.24	62.	7.3	A	16.1	4.4
6	3	3820.	68.	188.	1420.	68.	188.	1420.	6150.	0.	0.	0.	.23	62.	7.6	A	17.1	4.8
7	2	1220.	0.	0.	1232.	0.	0.	1232.	4400.	0.	0.	0.	.28	62.	9.9	A	18.2	4.4
8	3	4810.	196.	136.	1428.	196.	136.	1428.	6100.	0.	0.	0.	.23	62.	7.7	A	20.6	4.4
9	2	1370.	0.	0.	1292.	0.	0.	1292.	4000.	0.	0.	0.	.32	62.	10.4	A	23.6	4.4
10	2	660.	84.	0.	1376.	84.	0.	1376.	4398.	2.	0.	0.	.31	62.	11.1	B	23.6	4.4
11	3	790.	200.	100.	1576.	200.	100.	1576.	6098.	2.	0.	0.	.26	62.	8.5	A	30.0	4.4
12	2	1460.	0.	0.	1476.	0.	0.	1476.	4100.	0.	0.	0.	.36	62.	11.9	B	20.6	4.4
13	3	1400.	104.	0.	1580.	104.	0.	1580.	6098.	2.	0.	0.	.26	62.	8.5	A	13.6	4.4
14	3	2600.	0.	36.	1580.	0.	36.	1580.	6098.	2.	0.	0.	.26	62.	8.5	A	20.6	4.4
15	2	2010.	0.	0.	1544.	0.	0.	1544.	3900.	0.	0.	0.	.40	62.	12.5	B	14.7	4.4
16	3	6120.	108.	84.	1652.	108.	84.	1652.	6100.	0.	0.	0.	.27	62.	8.9	A	18.2	4.4
17	2	1240.	0.	0.	1568.	0.	0.	1568.	4300.	0.	0.	0.	.36	62.	12.6	B	18.2	4.4
18	3	930.	56.	0.	1624.	56.	0.	1624.	6100.	0.	0.	0.	.27	62.	8.7	A	20.6	4.4
19	3	5330.	56.	48.	1680.	56.	48.	1680.	6100.	0.	0.	0.	.28	62.	9.0	A	20.6	4.4
20	2	2830.	0.	0.	1632.	0.	0.	1632.	3800.	0.	0.	0.	.43	61.	13.4	B	21.1	3.8
21	3	1660.	144.	132.	1776.	144.	132.	1776.	6100.	0.	0.	0.	.29	61.	9.7	A	21.1	3.8
22	2	2270.	0.	0.	1644.	0.	0.	1644.	4400.	0.	0.	0.	.37	62.	13.3	B	20.6	4.4
23	2	3040.	20.	52.	1664.	20.	52.	1664.	4100.	0.	0.	0.	.41	62.	13.4	B	20.6	4.4
24	2	2190.	0.	0.	1612.	0.	0.	1612.	4200.	0.	0.	0.	.38	65.	12.4	B	19.2	6.1
25	3	2400.	56.	1668.	1668.	56.	1668.	1668.	6150.	0.	0.	0.	.27	65.	8.6	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.43		LOWEST LOS = B	AVG = 61.	9.8		18.9	4.4

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 1 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	74. PASS-HRS	64. VEH-HRS	74. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	74. PASS-HRS	64. VEH-HRS	74. PASS-HRS
TOTAL TRAV DISTANCE =	3947. VEH-MI.	4578. PASS-MI.	3947. VEH-MI.	4578. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	10. VPMPL		10. VPMPL	
TOTAL FUEL =	209. GALLONS		209. GALLONS	
TOTAL EMISSIONS =	17. KILOGRAMS		17. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1080.	0.	1080.	1080.	0.	1080.	3850.	0.	0.	0.	.28	50.	10.8	A	17.4	2.3
2	2	2070.	212.	0.	1292.	212.	0.	1292.	3850.	0.	0.	0.	.34	50.	12.9	B	15.9	2.3
3	3	2300.	524.	56.	1816.	524.	56.	1816.	5700.	0.	0.	0.	.32	55.	11.0	B	14.0	2.4
4	3	1020.	0.	0.	1760.	0.	0.	1760.	5700.	0.	0.	0.	.31	62.	9.5	A	19.9	4.8
5	3	710.	48.	0.	1808.	48.	0.	1808.	5700.	0.	0.	0.	.32	62.	9.7	A	16.1	4.4
6	3	3820.	88.	204.	1896.	88.	204.	1896.	6150.	0.	0.	0.	.31	62.	10.2	A	17.1	4.8
7	2	1220.	0.	0.	1692.	0.	0.	1692.	4400.	0.	0.	0.	.38	62.	13.6	B	18.2	4.4
8	3	4810.	180.	156.	1872.	180.	156.	1872.	6100.	0.	0.	0.	.31	62.	10.1	A	20.6	4.4
9	2	1370.	0.	0.	1716.	0.	0.	1716.	4000.	0.	0.	0.	.43	62.	13.8	B	23.6	4.4
10	2	660.	48.	0.	1764.	48.	0.	1764.	4398.	2.	0.	0.	.40	62.	14.2	B	23.6	4.4
11	3	790.	156.	108.	1920.	156.	108.	1920.	6098.	2.	0.	0.	.31	62.	10.3	A	30.0	4.4
12	2	1460.	0.	0.	1812.	0.	0.	1812.	4100.	0.	0.	0.	.44	62.	14.6	B	20.6	4.4
13	3	1400.	116.	0.	1928.	116.	0.	1928.	6097.	3.	0.	0.	.32	62.	10.4	A	13.6	4.4
14	3	2600.	0.	44.	1928.	0.	44.	1928.	6097.	3.	0.	0.	.32	62.	10.4	A	20.6	4.4
15	2	2010.	0.	0.	1884.	0.	0.	1884.	3900.	0.	0.	0.	.48	62.	15.2	B	14.7	4.4
16	3	6120.	92.	120.	1976.	92.	120.	1976.	6100.	0.	0.	0.	.32	62.	10.6	A	18.2	4.4
17	2	1240.	0.	0.	1856.	0.	0.	1856.	4300.	0.	0.	0.	.43	62.	15.0	B	18.2	4.4
18	3	930.	84.	0.	1940.	84.	0.	1940.	6100.	0.	0.	0.	.32	62.	10.4	A	20.6	4.4
19	3	5330.	80.	72.	2020.	80.	72.	2020.	6100.	0.	0.	0.	.33	62.	10.9	A	20.6	4.4
20	2	2830.	0.	0.	1948.	0.	0.	1948.	3800.	0.	0.	0.	.51	61.	16.0	B	21.1	3.8
21	3	1660.	136.	108.	2084.	136.	108.	2084.	6100.	0.	0.	0.	.34	61.	11.4	B	21.1	3.8
22	2	2270.	0.	0.	1976.	0.	0.	1976.	4400.	0.	0.	0.	.45	62.	15.9	B	20.6	4.4
23	2	3040.	64.	80.	2040.	64.	80.	2040.	4100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
24	2	2190.	0.	0.	1960.	0.	0.	1960.	4200.	0.	0.	0.	.47	65.	15.1	B	19.2	6.1
25	3	2400.	72.	2032.	2032.	72.	2032.	2032.	6150.	0.	0.	0.	.33	65.	10.4	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.51		LOWEST LOS = B	AVG = 61.	12.2		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	80. VEH-HRS	93. PASS-HRS	144. VEH-HRS	167. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	80. VEH-HRS	93. PASS-HRS	144. VEH-HRS	167. PASS-HRS
TOTAL TRAV DISTANCE =	4912. VEH-MI.	5698. PASS-MI.	8859. VEH-MI.	10277. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	12. VPMPL		11. VPMPL	
TOTAL FUEL =	261. GALLONS		470. GALLONS	
TOTAL EMISSIONS =	22. KILOGRAMS		39. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1512.	0.	1512.	1512.	0.	1512.	3850.	0.	0.	0.	.39	50.	15.1	B	17.4	2.3
2	2	2070.	292.	0.	1804.	292.	0.	1804.	3850.	0.	0.	0.	.47	50.	18.0	C	15.9	2.3
3	3	2300.	728.	80.	2532.	728.	80.	2532.	5694.	6.	0.	0.	.44	55.	15.3	B	14.0	2.4
4	3	1020.	0.	0.	2452.	0.	0.	2452.	5700.	0.	0.	0.	.43	62.	13.2	B	19.9	4.8
5	3	710.	92.	0.	2544.	92.	0.	2544.	5700.	0.	0.	0.	.45	62.	13.7	B	16.1	4.4
6	3	3820.	132.	380.	2676.	132.	380.	2676.	6150.	0.	0.	0.	.44	62.	14.4	B	17.1	4.8
7	2	1220.	0.	0.	2296.	0.	0.	2296.	4400.	0.	0.	0.	.52	62.	18.5	C	18.2	4.4
8	3	4810.	280.	216.	2576.	280.	216.	2576.	6100.	0.	0.	0.	.42	62.	13.8	B	20.6	4.4
9	2	1370.	0.	0.	2360.	0.	0.	2360.	4000.	0.	0.	0.	.59	62.	19.0	C	23.6	4.4
10	2	660.	100.	0.	2460.	100.	0.	2460.	4398.	2.	0.	0.	.56	62.	19.8	C	23.6	4.4
11	3	790.	336.	152.	2796.	336.	152.	2796.	6058.	42.	0.	0.	.46	62.	15.0	B	30.0	4.4
12	2	1460.	0.	0.	2644.	0.	0.	2644.	4100.	0.	0.	0.	.64	62.	21.3	C	20.6	4.4
13	3	1400.	216.	0.	2860.	216.	0.	2860.	6096.	4.	0.	0.	.47	62.	15.4	B	13.6	4.4
14	3	2600.	0.	72.	2860.	0.	72.	2860.	6096.	4.	0.	0.	.47	62.	15.4	B	20.6	4.4
15	2	2010.	0.	0.	2788.	0.	0.	2788.	3900.	0.	0.	0.	.71	62.	22.5	C	14.7	4.4
16	3	6120.	100.	112.	2888.	100.	112.	2888.	6100.	0.	0.	0.	.47	62.	15.5	B	18.2	4.4
17	2	1240.	0.	0.	2776.	0.	0.	2776.	4300.	0.	0.	0.	.65	62.	22.4	C	18.2	4.4
18	3	930.	136.	0.	2912.	136.	0.	2912.	6100.	0.	0.	0.	.48	62.	15.7	B	20.6	4.4
19	3	5330.	88.	112.	3000.	88.	112.	3000.	6098.	2.	0.	0.	.49	62.	16.1	B	20.6	4.4
20	2	2830.	0.	0.	2888.	0.	0.	2888.	3800.	0.	0.	0.	.76	61.	23.7	C	21.1	3.8
21	3	1660.	144.	176.	3032.	144.	176.	3032.	6100.	0.	0.	0.	.50	61.	16.6	B	21.1	3.8
22	2	2270.	0.	0.	2856.	0.	0.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	20.6	4.4
23	2	3040.	96.	48.	2952.	96.	48.	2952.	4100.	0.	0.	0.	.72	62.	23.8	C	20.6	4.4
24	2	2190.	0.	0.	2904.	0.	0.	2904.	4200.	0.	0.	0.	.69	65.	22.4	C	19.3	6.0
25	3	2400.	80.	2984.	2984.	80.	2984.	2984.	6150.	0.	0.	0.	.49	65.	15.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.76		LOWEST LOS = C	AVG = 61.	17.6		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	116. VEH-HRS	134. PASS-HRS	260. VEH-HRS	301. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	116. VEH-HRS	134. PASS-HRS	260. VEH-HRS	301. PASS-HRS
TOTAL TRAV DISTANCE =	7102. VEH-MI.	8239. PASS-MI.	15962. VEH-MI.	18516. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		13. VPMPL	
TOTAL FUEL =	377. GALLONS		847. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		70. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2052.	0.	2052.	2052.	0.	2052.	3850.	0.	0.	0.	.53	50.	20.5	C	17.4	2.3
2	2	2070.	392.	0.	2444.	392.	0.	2444.	3847.	3.	0.	0.	.64	50.	24.4	C	15.9	2.3
3	3	2300.	868.	108.	3312.	868.	108.	3312.	5664.	36.	0.	0.	.58	55.	20.1	C	14.0	2.4
4	3	1020.	0.	0.	3204.	0.	0.	3204.	5700.	0.	0.	0.	.56	62.	17.2	B	19.9	4.8
5	3	710.	136.	0.	3340.	136.	0.	3340.	5700.	0.	0.	0.	.59	62.	18.0	B	16.1	4.4
6	3	3820.	252.	636.	3592.	252.	636.	3592.	6150.	0.	0.	0.	.58	62.	19.3	C	17.1	4.8
7	2	1220.	0.	0.	2956.	0.	0.	2956.	4400.	0.	0.	0.	.67	62.	23.8	C	18.2	4.4
8	3	4810.	332.	344.	3288.	332.	344.	3288.	6100.	0.	0.	0.	.54	62.	17.7	B	20.6	4.4
9	2	1370.	0.	0.	2944.	0.	0.	2944.	4000.	0.	0.	0.	.74	62.	23.7	C	23.6	4.4
10	2	660.	108.	0.	3052.	108.	0.	3052.	4395.	5.	0.	0.	.69	62.	24.6	C	23.6	4.4
11	3	790.	360.	344.	3412.	360.	344.	3412.	5832.	268.	0.	0.	.59	62.	18.3	C	30.0	4.4
12	2	1460.	0.	0.	3068.	0.	0.	3068.	4100.	0.	0.	0.	.75	62.	24.7	C	20.6	4.4
13	3	1400.	224.	0.	3292.	224.	0.	3292.	6088.	12.	0.	0.	.54	62.	17.7	B	13.6	4.4
14	3	2600.	0.	204.	3292.	0.	204.	3292.	6088.	12.	0.	0.	.54	62.	17.7	B	20.6	4.4
15	2	2010.	0.	0.	3088.	0.	0.	3088.	3900.	0.	0.	0.	.79	61.	25.2	C	14.9	3.9
16	3	6120.	220.	200.	3308.	220.	200.	3308.	6100.	0.	0.	0.	.54	62.	17.8	B	18.2	4.4
17	2	1240.	0.	0.	3108.	0.	0.	3108.	4300.	0.	0.	0.	.72	62.	25.1	C	18.2	4.3
18	3	930.	176.	0.	3284.	176.	0.	3284.	6100.	0.	0.	0.	.54	62.	17.7	B	20.6	4.4
19	3	5330.	152.	132.	3436.	152.	132.	3436.	6096.	4.	0.	0.	.56	62.	18.5	C	20.6	4.4
20	2	2830.	0.	0.	3304.	0.	0.	3304.	3800.	0.	0.	0.	.87	59.	28.2	D	22.1	2.8
21	3	1660.	328.	368.	3632.	328.	368.	3632.	6100.	0.	0.	0.	.60	61.	19.8	C	21.1	3.8
22	2	2270.	0.	0.	3264.	0.	0.	3264.	4400.	0.	0.	0.	.74	62.	26.4	D	20.7	4.2
23	2	3040.	112.	84.	3376.	112.	84.	3376.	4100.	0.	0.	0.	.82	60.	27.9	D	21.4	3.5
24	2	2190.	0.	0.	3292.	0.	0.	3292.	4200.	0.	0.	0.	.78	64.	25.9	C	19.8	5.3
25	3	2400.	88.	3380.	3380.	88.	3380.	3380.	6150.	0.	0.	0.	.55	65.	17.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.87 LOWEST LOS = D AVG = 61. 21.1 18.9 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	399. VEH-HRS	463. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	399. VEH-HRS	463. PASS-HRS
TOTAL TRAV DISTANCE =	8472. VEH-MI.	9827. PASS-MI.	24434. VEH-MI.	28343. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		15. VPMPL	
TOTAL FUEL =	448. GALLONS		1294. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		106. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	936.	0.	936.	936.	0.	936.	3850.	0.	0.	0.	.24	50.	9.4	A	17.4	2.3
2	2	2070.	508.	0.	1444.	508.	0.	1444.	3850.	0.	0.	0.	.38	50.	14.4	B	15.9	2.3
3	3	2300.	1060.	160.	2504.	1060.	160.	2504.	5636.	64.	0.	0.	.44	55.	15.2	B	14.0	2.4
4	3	1020.	0.	0.	2344.	0.	0.	2344.	5700.	0.	0.	0.	.41	62.	12.6	B	19.9	4.8
5	3	710.	144.	0.	2488.	144.	0.	2488.	5700.	0.	0.	0.	.44	62.	13.4	B	16.1	4.4
6	3	3820.	360.	556.	2848.	360.	556.	2848.	6150.	0.	0.	0.	.46	62.	15.3	B	17.1	4.8
7	2	1220.	0.	0.	2292.	0.	0.	2292.	4400.	0.	0.	0.	.52	62.	18.5	C	18.2	4.4
8	3	4810.	416.	364.	2708.	416.	364.	2708.	6100.	0.	0.	0.	.44	62.	14.6	B	20.6	4.4
9	2	1370.	0.	0.	2344.	0.	0.	2344.	4000.	0.	0.	0.	.59	62.	18.9	C	23.6	4.4
10	2	660.	120.	0.	2464.	120.	0.	2464.	4393.	7.	0.	0.	.56	62.	19.9	C	23.6	4.4
11	3	790.	548.	444.	3012.	548.	444.	3012.	5727.	373.	0.	0.	.53	62.	16.2	B	30.0	4.4
12	2	1460.	0.	0.	2568.	0.	0.	2568.	4100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
13	3	1400.	324.	0.	2892.	324.	0.	2892.	6076.	24.	0.	0.	.48	62.	15.5	B	13.6	4.4
14	3	2600.	0.	204.	2892.	0.	204.	2892.	6076.	24.	0.	0.	.48	62.	15.5	B	20.6	4.4
15	2	2010.	0.	0.	2688.	0.	0.	2688.	3900.	0.	0.	0.	.69	62.	21.7	C	14.7	4.4
16	3	6120.	236.	284.	2924.	236.	284.	2924.	6100.	0.	0.	0.	.48	62.	15.7	B	18.2	4.4
17	2	1240.	0.	0.	2640.	0.	0.	2640.	4300.	0.	0.	0.	.61	62.	21.3	C	18.2	4.4
18	3	930.	240.	0.	2880.	240.	0.	2880.	6100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
19	3	5330.	208.	224.	3088.	208.	224.	3088.	6096.	4.	0.	0.	.51	62.	16.6	B	20.6	4.4
20	2	2830.	0.	0.	2864.	0.	0.	2864.	3800.	0.	0.	0.	.75	61.	23.5	C	21.1	3.8
21	3	1660.	544.	676.	3408.	544.	676.	3408.	5838.	262.	0.	0.	.58	61.	18.6	C	21.1	3.8
22	2	2270.	0.	0.	2732.	0.	0.	2732.	4400.	0.	0.	0.	.62	62.	22.0	C	20.6	4.4
23	2	3040.	144.	104.	2876.	144.	104.	2876.	4100.	0.	0.	0.	.70	62.	23.2	C	20.6	4.4
24	2	2190.	0.	0.	2772.	0.	0.	2772.	4200.	0.	0.	0.	.66	65.	21.3	C	19.2	6.1
25	3	2400.	116.	2888.	2888.	116.	2888.	2888.	6150.	0.	0.	0.	.47	65.	14.8	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.75		LOWEST LOS = C	AVG = 62.	17.5		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	134. PASS-HRS	514. VEH-HRS	597. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	115. VEH-HRS	134. PASS-HRS	514. VEH-HRS	597. PASS-HRS
TOTAL TRAV DISTANCE =	7104. VEH-MI.	8240. PASS-MI.	31537. VEH-MI.	36583. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		61. MPH.	
AVERAGE DENSITY =	17. VPMPL		16. VPMPL	
TOTAL FUEL =	376. GALLONS		1670. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		137. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1180.	0.	1180.	1180.	0.	1180.	3850.	0.	0.	0.	.31	50.	11.8	B	17.4	2.3
2	2	2070.	632.	0.	1812.	632.	0.	1812.	3850.	0.	0.	0.	.47	50.	18.1	C	15.9	2.3
3	3	2300.	1428.	248.	3240.	1428.	248.	3240.	5567.	133.	0.	0.	.58	55.	19.6	C	14.0	2.4
4	3	1020.	0.	0.	2992.	0.	0.	2992.	5700.	0.	0.	0.	.52	62.	16.1	B	19.9	4.8
5	3	710.	204.	0.	3196.	204.	0.	3196.	5700.	0.	0.	0.	.56	62.	17.2	B	16.1	4.4
6	3	3820.	344.	808.	3540.	344.	808.	3540.	6150.	0.	0.	0.	.58	62.	19.0	C	17.1	4.8
7	2	1220.	0.	0.	2732.	0.	0.	2732.	4400.	0.	0.	0.	.62	62.	22.0	C	18.2	4.4
8	3	4810.	468.	396.	3200.	468.	396.	3200.	6100.	0.	0.	0.	.52	62.	17.2	B	20.6	4.4
9	2	1370.	0.	0.	2804.	0.	0.	2804.	4000.	0.	0.	0.	.70	62.	22.6	C	23.6	4.4
10	2	660.	160.	0.	2964.	160.	0.	2964.	4389.	11.	0.	0.	.68	62.	23.9	C	23.6	4.4
11	3	790.	500.	540.	3464.	500.	540.	3464.	5667.	433.	0.	0.	.61	62.	18.6	C	30.0	4.4
12	2	1460.	0.	0.	2924.	0.	0.	2924.	4100.	0.	0.	0.	.71	62.	23.6	C	20.6	4.4
13	3	1400.	404.	0.	3328.	404.	0.	3328.	6044.	56.	0.	0.	.55	62.	17.9	B	13.6	4.4
14	3	2600.	0.	468.	3328.	0.	468.	3328.	6044.	56.	0.	0.	.55	62.	17.9	B	20.6	4.4
15	2	2010.	0.	0.	2860.	0.	0.	2860.	3900.	0.	0.	0.	.73	62.	23.1	C	14.7	4.4
16	3	6120.	328.	328.	3188.	328.	328.	3188.	6100.	0.	0.	0.	.52	62.	17.1	B	18.2	4.4
17	2	1240.	0.	0.	2860.	0.	0.	2860.	4300.	0.	0.	0.	.67	62.	23.1	C	18.2	4.4
18	3	930.	348.	0.	3208.	348.	0.	3208.	6100.	0.	0.	0.	.53	62.	17.2	B	20.6	4.4
19	3	5330.	180.	304.	3388.	180.	304.	3388.	6089.	11.	0.	0.	.56	62.	18.2	C	20.6	4.4
20	2	2830.	0.	0.	3084.	0.	0.	3084.	3800.	0.	0.	0.	.81	61.	25.3	C	21.1	3.8
21	3	1660.	544.	548.	3628.	544.	548.	3628.	5870.	230.	0.	0.	.62	61.	19.8	C	21.1	3.8
22	2	2270.	0.	0.	3080.	0.	0.	3080.	4400.	0.	0.	0.	.70	62.	24.8	C	20.6	4.4
23	2	3040.	324.	184.	3404.	324.	184.	3404.	4100.	0.	0.	0.	.83	60.	28.2	D	21.4	3.4
24	2	2190.	0.	0.	3220.	0.	0.	3220.	4200.	0.	0.	0.	.77	64.	25.2	C	19.7	5.5
25	3	2400.	148.	3368.	3368.	148.	3368.	3368.	6150.	0.	0.	0.	.55	65.	17.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.83		LOWEST LOS = D	AVG = 61.	20.1		18.9	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	133. VEH-HRS	155. PASS-HRS	647. VEH-HRS	751. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	133. VEH-HRS	155. PASS-HRS	647. VEH-HRS	751. PASS-HRS
TOTAL TRAV DISTANCE =	8170. VEH-MI.	9477. PASS-MI.	39707. VEH-MI.	46060. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		16. VPMPL	
TOTAL FUEL =	432. GALLONS		2102. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		172. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1056.	0.	1056.	1056.	0.	1056.	3850.	0.	0.	0.	.27	50.	10.6	A	17.4	2.3
2	2	2070.	844.	0.	1900.	844.	0.	1900.	3850.	0.	0.	0.	.49	50.	19.0	C	15.9	2.3
3	3	2300.	1668.	304.	3568.	1668.	304.	3568.	5540.	160.	0.	0.	.64	55.	21.6	C	14.0	2.4
4	3	1020.	0.	0.	3264.	0.	0.	3264.	5700.	0.	0.	0.	.57	62.	17.5	B	19.9	4.8
5	3	710.	276.	0.	3540.	276.	0.	3540.	5700.	0.	0.	0.	.62	62.	19.0	C	16.1	4.4
6	3	3820.	384.	792.	3924.	384.	792.	3924.	6150.	0.	0.	0.	.64	62.	21.1	C	17.1	4.8
7	2	1220.	0.	0.	3132.	0.	0.	3132.	4400.	0.	0.	0.	.71	62.	25.3	C	18.2	4.3
8	3	4810.	680.	500.	3812.	680.	500.	3812.	6100.	0.	0.	0.	.62	62.	20.5	C	20.6	4.4
9	2	1370.	0.	0.	3312.	0.	0.	3312.	4000.	0.	0.	0.	.83	60.	27.4	D	24.5	3.4
10	2	660.	236.	0.	3548.	236.	0.	3548.	4385.	15.	0.	0.	.81	61.	29.2	D	24.3	3.7
11	3	790.	632.	584.	4180.	632.	584.	4180.	5587.	513.	0.	0.	.75	62.	22.5	C	30.0	4.4
12	2	1460.	0.	0.	3596.	0.	0.	3596.	4100.	0.	0.	0.	.88	59.	30.6	D	22.0	2.9
13	3	1400.	392.	0.	3988.	392.	0.	3988.	6008.	92.	0.	0.	.66	62.	21.4	C	13.6	4.4
14	3	2600.	0.	948.	3988.	0.	948.	3988.	6008.	92.	0.	0.	.66	62.	21.4	C	20.6	4.4
15	2	2010.	0.	0.	3040.	0.	0.	3040.	3900.	0.	0.	0.	.78	62.	24.5	C	14.7	4.4
16	3	6120.	396.	324.	3436.	396.	324.	3436.	6100.	0.	0.	0.	.56	62.	18.5	C	18.2	4.4
17	2	1240.	0.	0.	3112.	0.	0.	3112.	4300.	0.	0.	0.	.72	62.	25.1	C	18.2	4.3
18	3	930.	260.	0.	3372.	260.	0.	3372.	6100.	0.	0.	0.	.55	62.	18.1	C	20.6	4.4
19	3	5330.	156.	272.	3528.	156.	272.	3528.	6091.	9.	0.	0.	.58	62.	19.0	C	20.6	4.4
20	2	2830.	0.	0.	3256.	0.	0.	3256.	3800.	0.	0.	0.	.86	59.	27.6	D	21.9	2.9
21	3	1660.	480.	400.	3736.	480.	400.	3736.	6048.	52.	0.	0.	.62	61.	20.4	C	21.1	3.8
22	2	2270.	0.	0.	3336.	0.	0.	3336.	4400.	0.	0.	0.	.76	62.	27.1	D	20.8	4.1
23	2	3040.	324.	208.	3660.	324.	208.	3660.	4100.	0.	0.	0.	.89	58.	31.5	D	22.2	2.7
24	2	2190.	0.	0.	3452.	0.	0.	3452.	4200.	0.	0.	0.	.82	62.	27.6	D	20.3	4.6
25	3	2400.	200.	3652.	3652.	200.	3652.	3652.	6150.	0.	0.	0.	.59	65.	18.7	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 61.	22.4		19.1	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	148. VEH-HRS	172. PASS-HRS	796. VEH-HRS	923. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	148. VEH-HRS	172. PASS-HRS	796. VEH-HRS	923. PASS-HRS
TOTAL TRAV DISTANCE =	9016. VEH-MI.	10459. PASS-MI.	48723. VEH-MI.	56519. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		17. VPMPL	
TOTAL FUEL =	473. GALLONS		2575. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		209. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1344.	0.	1344.	1344.	0.	1344.	3850.	0.	0.	0.	.35	50.	13.4	B	17.4	2.3
2	2	2070.	796.	0.	2140.	796.	0.	2140.	3850.	0.	0.	0.	.56	50.	21.4	C	15.9	2.3
3	3	2300.	1676.	348.	3816.	1676.	348.	3816.	5504.	196.	0.	0.	.69	55.	23.1	C	14.0	2.4
4	3	1020.	0.	0.	3468.	0.	0.	3468.	5700.	0.	0.	0.	.61	62.	18.6	C	19.9	4.8
5	3	710.	316.	0.	3784.	316.	0.	3784.	5700.	0.	0.	0.	.66	62.	20.3	C	16.1	4.4
6	3	3820.	420.	856.	4204.	420.	856.	4204.	6150.	0.	0.	0.	.68	62.	22.6	C	17.1	4.8
7	2	1220.	0.	0.	3348.	0.	0.	3348.	4400.	0.	0.	0.	.76	62.	27.2	D	18.3	4.1
8	3	4810.	688.	536.	4036.	688.	536.	4036.	6100.	0.	0.	0.	.66	62.	21.7	C	20.6	4.4
9	2	1370.	0.	0.	3500.	0.	0.	3500.	4000.	0.	0.	0.	.88	59.	29.7	D	25.3	2.9
10	2	660.	308.	0.	3808.	308.	0.	3808.	4378.	22.	0.	0.	.87	59.	32.2	D	25.2	3.0
11	3	790.	704.	708.	4512.	704.	708.	4512.	5482.	618.	0.	0.	.82	62.	24.3	C	30.0	4.4
12	2	1460.	0.	0.	3804.	0.	0.	3804.	4100.	0.	0.	0.	.93	56.	33.7	D	22.7	2.3
13	3	1400.	416.	0.	4220.	416.	0.	4220.	5988.	112.	0.	0.	.70	62.	22.7	C	13.6	4.4
14	3	2600.	0.	1140.	4220.	0.	1140.	4220.	5988.	112.	0.	0.	.70	62.	22.7	C	20.6	4.4
15	2	2010.	0.	0.	3080.	0.	0.	3080.	3900.	0.	0.	0.	.79	61.	25.2	C	14.9	3.9
16	3	6120.	452.	400.	3532.	452.	400.	3532.	6100.	0.	0.	0.	.58	62.	19.0	C	18.2	4.4
17	2	1240.	0.	0.	3132.	0.	0.	3132.	4300.	0.	0.	0.	.73	62.	25.3	C	18.2	4.3
18	3	930.	320.	0.	3452.	320.	0.	3452.	6100.	0.	0.	0.	.57	62.	18.6	C	20.6	4.4
19	3	5330.	160.	336.	3612.	160.	336.	3612.	6087.	13.	0.	0.	.59	62.	19.4	C	20.6	4.4
20	2	2830.	0.	0.	3276.	0.	0.	3276.	3800.	0.	0.	0.	.86	59.	27.9	D	22.0	2.9
21	3	1660.	644.	456.	3920.	644.	456.	3920.	5891.	209.	0.	0.	.67	61.	21.4	C	21.1	3.8
22	2	2270.	0.	0.	3464.	0.	0.	3464.	4400.	0.	0.	0.	.79	61.	28.3	D	21.0	3.9
23	2	3040.	304.	336.	3768.	304.	336.	3768.	4100.	0.	0.	0.	.92	57.	33.1	D	22.5	2.4
24	2	2190.	0.	0.	3432.	0.	0.	3432.	4200.	0.	0.	0.	.82	63.	27.4	D	20.3	4.7
25	3	2400.	204.	3636.	3636.	204.	3636.	3636.	6150.	0.	0.	0.	.59	65.	18.6	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.93		LOWEST LOS = D	AVG = 61.	23.5		19.1	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	155. VEH-HRS	180. PASS-HRS	951. VEH-HRS	1103. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	155. VEH-HRS	180. PASS-HRS	951. VEH-HRS	1103. PASS-HRS
TOTAL TRAV DISTANCE =	9397. VEH-MI.	10900. PASS-MI.	58120. VEH-MI.	67419. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		18. VPMPL	
TOTAL FUEL =	491. GALLONS		3067. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		247. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2340.	0.	2340.	2340.	0.	2340.	3850.	0.	0.	0.	.61	50.	23.4	C	17.4	2.3
2	2	2070.	688.	0.	3028.	688.	0.	3028.	3830.	20.	0.	0.	.79	50.	30.3	D	15.9	2.3
3	3	2300.	1528.	376.	4556.	1528.	376.	4556.	5430.	270.	0.	0.	.84	55.	27.6	D	14.0	2.4
4	3	1020.	0.	0.	4180.	0.	0.	4180.	5700.	0.	0.	0.	.73	62.	22.5	C	19.9	4.8
5	3	710.	236.	0.	4416.	236.	0.	4416.	5700.	0.	0.	0.	.77	62.	23.7	C	16.1	4.4
6	3	3820.	296.	1076.	4712.	296.	1076.	4712.	6127.	23.	0.	0.	.77	61.	25.5	C	17.3	4.5
7	2	1220.	0.	0.	3636.	0.	0.	3636.	4400.	0.	0.	0.	.83	60.	30.1	D	18.9	3.4
8	3	4810.	592.	820.	4228.	592.	820.	4228.	6100.	0.	0.	0.	.69	62.	22.7	C	20.6	4.4
9	2	1370.	0.	0.	3408.	0.	0.	3408.	4000.	0.	0.	0.	.85	60.	28.5	D	24.9	3.1
10	2	660.	228.	0.	3636.	228.	0.	3636.	4376.	24.	0.	0.	.83	60.	30.1	D	24.6	3.4
11	3	790.	660.	964.	4296.	660.	964.	4296.	5560.	540.	0.	0.	.77	62.	23.1	C	30.0	4.4
12	2	1460.	0.	0.	3332.	0.	0.	3332.	4100.	0.	0.	0.	.81	61.	27.4	D	21.2	3.6
13	3	1400.	480.	0.	3812.	480.	0.	3812.	5996.	104.	0.	0.	.64	62.	20.5	C	13.6	4.4
14	3	2600.	0.	836.	3812.	0.	836.	3812.	5996.	104.	0.	0.	.64	62.	20.5	C	20.6	4.4
15	2	2010.	0.	0.	2976.	0.	0.	2976.	3900.	0.	0.	0.	.76	62.	24.0	C	14.7	4.4
16	3	6120.	384.	484.	3360.	384.	484.	3360.	6100.	0.	0.	0.	.55	62.	18.1	C	18.2	4.4
17	2	1240.	0.	0.	2876.	0.	0.	2876.	4300.	0.	0.	0.	.67	62.	23.2	C	18.2	4.4
18	3	930.	340.	0.	3216.	340.	0.	3216.	6100.	0.	0.	0.	.53	62.	17.3	B	20.6	4.4
19	3	5330.	172.	388.	3388.	172.	388.	3388.	6086.	14.	0.	0.	.56	62.	18.2	C	20.6	4.4
20	2	2830.	0.	0.	3000.	0.	0.	3000.	3800.	0.	0.	0.	.79	61.	24.6	C	21.1	3.8
21	3	1660.	464.	380.	3464.	464.	380.	3464.	6067.	33.	0.	0.	.57	61.	18.9	C	21.1	3.8
22	2	2270.	0.	0.	3084.	0.	0.	3084.	4400.	0.	0.	0.	.70	62.	24.9	C	20.6	4.3
23	2	3040.	144.	280.	3228.	144.	280.	3228.	4100.	0.	0.	0.	.79	61.	26.4	D	21.0	3.9
24	2	2190.	0.	0.	2948.	0.	0.	2948.	4200.	0.	0.	0.	.70	65.	22.8	C	19.3	6.0
25	3	2400.	208.	3156.	3156.	208.	3156.	3156.	6150.	0.	0.	0.	.51	65.	16.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.85 LOWEST LOS = D AVG = 61. 22.8 18.8 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	151. VEH-HRS	176. PASS-HRS	1102. VEH-HRS	1279. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	151. VEH-HRS	176. PASS-HRS	1102. VEH-HRS	1279. PASS-HRS
TOTAL TRAV DISTANCE =	9229. VEH-MI.	10705. PASS-MI.	67348. VEH-MI.	78124. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		19. VPMPL	
TOTAL FUEL =	491. GALLONS		3558. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		286. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1056.	0.	1056.	1056.	0.	1056.	3850.	0.	0.	0.	.27	50.	10.6	A	17.4	2.3
2	2	2070.	692.	0.	1748.	692.	0.	1748.	3850.	0.	0.	0.	.45	50.	17.5	B	15.9	2.3
3	3	2300.	1632.	388.	3380.	1632.	388.	3380.	5500.	200.	0.	0.	.61	55.	20.5	C	14.0	2.4
4	3	1020.	0.	0.	2992.	0.	0.	2992.	5700.	0.	0.	0.	.52	62.	16.1	B	19.9	4.8
5	3	710.	264.	0.	3256.	264.	0.	3256.	5700.	0.	0.	0.	.57	62.	17.5	B	16.1	4.4
6	3	3820.	440.	1012.	3696.	440.	1012.	3696.	6134.	16.	0.	0.	.60	62.	19.9	C	17.1	4.8
7	2	1220.	0.	0.	2684.	0.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	18.2	4.4
8	3	4810.	600.	692.	3284.	600.	692.	3284.	6100.	0.	0.	0.	.54	62.	17.7	B	20.6	4.4
9	2	1370.	0.	0.	2592.	0.	0.	2592.	4000.	0.	0.	0.	.65	62.	20.9	C	23.6	4.4
10	2	660.	248.	0.	2840.	248.	0.	2840.	4376.	24.	0.	0.	.65	62.	22.9	C	23.6	4.4
11	3	790.	568.	740.	3408.	568.	740.	3408.	5628.	472.	0.	0.	.61	62.	18.3	C	30.0	4.4
12	2	1460.	0.	0.	2668.	0.	0.	2668.	4100.	0.	0.	0.	.65	62.	21.5	C	20.6	4.4
13	3	1400.	464.	0.	3132.	464.	0.	3132.	6009.	91.	0.	0.	.52	62.	16.8	B	13.6	4.4
14	3	2600.	0.	648.	3132.	0.	648.	3132.	6009.	91.	0.	0.	.52	62.	16.8	B	20.6	4.4
15	2	2010.	0.	0.	2484.	0.	0.	2484.	3900.	0.	0.	0.	.64	62.	20.0	C	14.7	4.4
16	3	6120.	468.	476.	2952.	468.	476.	2952.	6100.	0.	0.	0.	.48	62.	15.9	B	18.2	4.4
17	2	1240.	0.	0.	2476.	0.	0.	2476.	4300.	0.	0.	0.	.58	62.	20.0	C	18.2	4.4
18	3	930.	292.	0.	2768.	292.	0.	2768.	6100.	0.	0.	0.	.45	62.	14.9	B	20.6	4.4
19	3	5330.	124.	440.	2892.	124.	440.	2892.	6096.	4.	0.	0.	.47	62.	15.5	B	20.6	4.4
20	2	2830.	0.	0.	2452.	0.	0.	2452.	3800.	0.	0.	0.	.65	61.	20.1	C	21.1	3.8
21	3	1660.	504.	460.	2956.	504.	460.	2956.	6024.	76.	0.	0.	.49	61.	16.2	B	21.1	3.8
22	2	2270.	0.	0.	2496.	0.	0.	2496.	4400.	0.	0.	0.	.57	62.	20.1	C	20.6	4.4
23	2	3040.	208.	312.	2704.	208.	312.	2704.	4100.	0.	0.	0.	.66	62.	21.8	C	20.6	4.4
24	2	2190.	0.	0.	2392.	0.	0.	2392.	4200.	0.	0.	0.	.57	65.	18.4	C	19.2	6.1
25	3	2400.	156.	2548.	2548.	156.	2548.	2548.	6150.	0.	0.	0.	.41	65.	13.1	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.66		LOWEST LOS = C	AVG = 61.	18.0		18.8	4.4

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 10 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	1223. VEH-HRS	1418. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	1223. VEH-HRS	1418. PASS-HRS
TOTAL TRAV DISTANCE =	7397. VEH-MI.	8580. PASS-MI.	74745. VEH-MI.	86704. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		19. VPMPL	
TOTAL FUEL =	394. GALLONS		3952. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		318. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1676.	0.	1676.	1676.	0.	1676.	3850.	0.	0.	0.	.44	50.	16.8	B	17.4	2.3
2	2	2070.	640.	0.	2316.	640.	0.	2316.	3845.	5.	0.	0.	.60	50.	23.2	C	15.9	2.3
3	3	2300.	1724.	328.	4040.	1724.	328.	4040.	5505.	195.	0.	0.	.73	55.	24.5	C	14.0	2.4
4	3	1020.	0.	0.	3712.	0.	0.	3712.	5700.	0.	0.	0.	.65	62.	20.0	C	19.9	4.8
5	3	710.	296.	0.	4008.	296.	0.	4008.	5700.	0.	0.	0.	.70	62.	21.5	C	16.1	4.4
6	3	3820.	368.	980.	4376.	368.	980.	4376.	6136.	14.	0.	0.	.71	62.	23.5	C	17.1	4.8
7	2	1220.	0.	0.	3396.	0.	0.	3396.	4400.	0.	0.	0.	.77	61.	27.6	D	18.4	4.0
8	3	4810.	684.	776.	4080.	684.	776.	4080.	6100.	0.	0.	0.	.67	62.	21.9	C	20.6	4.4
9	2	1370.	0.	0.	3304.	0.	0.	3304.	4000.	0.	0.	0.	.83	60.	27.3	D	24.5	3.4
10	2	660.	240.	0.	3544.	240.	0.	3544.	4380.	20.	0.	0.	.81	61.	29.1	D	24.3	3.7
11	3	790.	512.	732.	4056.	512.	732.	4056.	5656.	444.	0.	0.	.72	62.	21.8	C	30.0	4.4
12	2	1460.	0.	0.	3324.	0.	0.	3324.	4100.	0.	0.	0.	.81	61.	27.3	D	21.2	3.6
13	3	1400.	420.	0.	3744.	420.	0.	3744.	6016.	84.	0.	0.	.62	62.	20.1	C	13.6	4.4
14	3	2600.	0.	756.	3744.	0.	756.	3744.	6016.	84.	0.	0.	.62	62.	20.1	C	20.6	4.4
15	2	2010.	0.	0.	2988.	0.	0.	2988.	3900.	0.	0.	0.	.77	62.	24.1	C	14.7	4.4
16	3	6120.	312.	544.	3300.	312.	544.	3300.	6100.	0.	0.	0.	.54	62.	17.7	B	18.2	4.4
17	2	1240.	0.	0.	2756.	0.	0.	2756.	4300.	0.	0.	0.	.64	62.	22.2	C	18.2	4.4
18	3	930.	228.	0.	2984.	228.	0.	2984.	6100.	0.	0.	0.	.49	62.	16.0	B	20.6	4.4
19	3	5330.	112.	440.	3096.	112.	440.	3096.	6092.	8.	0.	0.	.51	62.	16.6	B	20.6	4.4
20	2	2830.	0.	0.	2656.	0.	0.	2656.	3800.	0.	0.	0.	.70	61.	21.8	C	21.1	3.8
21	3	1660.	440.	424.	3096.	440.	424.	3096.	6064.	36.	0.	0.	.51	61.	16.9	B	21.1	3.8
22	2	2270.	0.	0.	2672.	0.	0.	2672.	4400.	0.	0.	0.	.61	62.	21.5	C	20.6	4.4
23	2	3040.	204.	264.	2876.	204.	264.	2876.	4100.	0.	0.	0.	.70	62.	23.2	C	20.6	4.4
24	2	2190.	0.	0.	2612.	0.	0.	2612.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	160.	2772.	2772.	160.	2772.	2772.	6150.	0.	0.	0.	.45	65.	14.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.83		LOWEST LOS = D	AVG = 61.	21.0		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 11 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	140. VEH-HRS	162. PASS-HRS	1363. VEH-HRS	1581. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	162. PASS-HRS	1363. VEH-HRS	1581. PASS-HRS
TOTAL TRAV DISTANCE =	8555. VEH-MI.	9923. PASS-MI.	83300. VEH-MI.	96628. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		19. VPMPL	
TOTAL FUEL =	456. GALLONS		4409. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		355. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1304.	0.	1304.	1304.	0.	1304.	3850.	0.	0.	0.	.34	50.	13.0	B	17.4	2.3
2	2	2070.	724.	0.	2028.	724.	0.	2028.	3850.	0.	0.	0.	.53	50.	20.3	C	15.9	2.3
3	3	2300.	1756.	348.	3784.	1756.	348.	3784.	5512.	188.	0.	0.	.69	55.	22.9	C	14.0	2.4
4	3	1020.	0.	0.	3436.	0.	0.	3436.	5700.	0.	0.	0.	.60	62.	18.5	C	19.9	4.8
5	3	710.	236.	0.	3672.	236.	0.	3672.	5700.	0.	0.	0.	.64	62.	19.7	C	16.1	4.4
6	3	3820.	352.	956.	4024.	352.	956.	4024.	6150.	0.	0.	0.	.65	62.	21.6	C	17.1	4.8
7	2	1220.	0.	0.	3068.	0.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	18.2	4.4
8	3	4810.	616.	704.	3684.	616.	704.	3684.	6100.	0.	0.	0.	.60	62.	19.8	C	20.6	4.4
9	2	1370.	0.	0.	2980.	0.	0.	2980.	4000.	0.	0.	0.	.75	62.	24.0	C	23.6	4.4
10	2	660.	244.	0.	3224.	244.	0.	3224.	4376.	24.	0.	0.	.74	62.	26.1	D	23.7	4.2
11	3	790.	648.	836.	3872.	648.	836.	3872.	5564.	536.	0.	0.	.70	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3036.	0.	0.	3036.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
13	3	1400.	380.	0.	3416.	380.	0.	3416.	5986.	114.	0.	0.	.57	62.	18.4	C	13.6	4.4
14	3	2600.	0.	1084.	3416.	0.	1084.	3416.	5986.	114.	0.	0.	.57	62.	18.4	C	20.6	4.4
15	2	2010.	0.	0.	2332.	0.	0.	2332.	3900.	0.	0.	0.	.60	62.	18.8	C	14.7	4.4
16	3	6120.	364.	636.	2696.	364.	636.	2696.	6100.	0.	0.	0.	.44	62.	14.5	B	18.2	4.4
17	2	1240.	0.	0.	2060.	0.	0.	2060.	4300.	0.	0.	0.	.48	62.	16.6	B	18.2	4.4
18	3	930.	232.	0.	2292.	232.	0.	2292.	6100.	0.	0.	0.	.38	62.	12.3	B	20.6	4.4
19	3	5330.	120.	376.	2412.	120.	376.	2412.	6100.	0.	0.	0.	.40	62.	13.0	B	20.6	4.4
20	2	2830.	0.	0.	2036.	0.	0.	2036.	3800.	0.	0.	0.	.54	61.	16.7	B	21.1	3.8
21	3	1660.	384.	384.	2420.	384.	384.	2420.	6100.	0.	0.	0.	.40	61.	13.2	B	21.1	3.8
22	2	2270.	0.	0.	2036.	0.	0.	2036.	4400.	0.	0.	0.	.46	62.	16.4	B	20.6	4.4
23	2	3040.	148.	244.	2184.	148.	244.	2184.	4100.	0.	0.	0.	.53	62.	17.6	B	20.6	4.4
24	2	2190.	0.	0.	1940.	0.	0.	1940.	4200.	0.	0.	0.	.46	65.	14.9	B	19.2	6.1
25	3	2400.	104.	2044.	2044.	104.	2044.	2044.	6150.	0.	0.	0.	.33	65.	10.5	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.75		LOWEST LOS = D	AVG = 61.	17.6		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 12 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1481. VEH-HRS	1718. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1481. VEH-HRS	1718. PASS-HRS
TOTAL TRAV DISTANCE =	7234. VEH-MI.	8392. PASS-MI.	90534. VEH-MI.	105019. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		19. VPMPL	
TOTAL FUEL =	388. GALLONS		4796. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		386. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1980.	0.	1980.	1980.	0.	1980.	3850.	0.	0.	0.	.51	50.	19.8	C	17.4	2.3
2	2	2070.	664.	0.	2644.	664.	0.	2644.	3842.	8.	0.	0.	.69	50.	26.4	D	15.9	2.3
3	3	2300.	1356.	200.	4000.	1356.	200.	4000.	5565.	135.	0.	0.	.72	55.	24.2	C	14.0	2.4
4	3	1020.	0.	0.	3800.	0.	0.	3800.	5700.	0.	0.	0.	.67	62.	20.4	C	19.9	4.8
5	3	710.	240.	0.	4040.	240.	0.	4040.	5700.	0.	0.	0.	.71	62.	21.7	C	16.1	4.4
6	3	3820.	408.	816.	4448.	408.	816.	4448.	6150.	0.	0.	0.	.72	62.	23.9	C	17.1	4.8
7	2	1220.	0.	0.	3632.	0.	0.	3632.	4400.	0.	0.	0.	.83	60.	30.0	D	18.8	3.4
8	3	4810.	608.	664.	4240.	608.	664.	4240.	6100.	0.	0.	0.	.70	62.	22.8	C	20.6	4.4
9	2	1370.	0.	0.	3576.	0.	0.	3576.	4000.	0.	0.	0.	.89	58.	30.8	D	25.6	2.7
10	2	660.	168.	0.	3744.	168.	0.	3744.	4389.	11.	0.	0.	.85	60.	31.4	D	24.9	3.1
11	3	790.	624.	672.	4368.	624.	672.	4368.	5559.	541.	0.	0.	.79	62.	23.5	C	30.0	4.4
12	2	1460.	0.	0.	3696.	0.	0.	3696.	4100.	0.	0.	0.	.90	58.	32.0	D	22.3	2.6
13	3	1400.	400.	0.	4096.	400.	0.	4096.	5968.	132.	0.	0.	.69	62.	22.0	C	13.6	4.4
14	3	2600.	0.	1352.	4096.	0.	1352.	4096.	5968.	132.	0.	0.	.69	62.	22.0	C	20.6	4.4
15	2	2010.	0.	0.	2744.	0.	0.	2744.	3900.	0.	0.	0.	.70	62.	22.1	C	14.7	4.4
16	3	6120.	280.	624.	3024.	280.	624.	3024.	6100.	0.	0.	0.	.50	62.	16.3	B	18.2	4.4
17	2	1240.	0.	0.	2400.	0.	0.	2400.	4300.	0.	0.	0.	.56	62.	19.4	C	18.2	4.4
18	3	930.	272.	0.	2672.	272.	0.	2672.	6100.	0.	0.	0.	.44	62.	14.4	B	20.6	4.4
19	3	5330.	96.	384.	2768.	96.	384.	2768.	6097.	3.	0.	0.	.45	62.	14.9	B	20.6	4.4
20	2	2830.	0.	0.	2384.	0.	0.	2384.	3800.	0.	0.	0.	.63	61.	19.5	C	21.1	3.8
21	3	1660.	344.	296.	2728.	344.	296.	2728.	6100.	0.	0.	0.	.45	61.	14.9	B	21.1	3.8
22	2	2270.	0.	0.	2432.	0.	0.	2432.	4400.	0.	0.	0.	.55	62.	19.6	C	20.6	4.4
23	2	3040.	104.	228.	2536.	104.	228.	2536.	4100.	0.	0.	0.	.62	62.	20.5	C	20.6	4.4
24	2	2190.	0.	0.	2308.	0.	0.	2308.	4200.	0.	0.	0.	.55	65.	17.8	B	19.2	6.1
25	3	2400.	120.	2428.	2428.	120.	2428.	2428.	6150.	0.	0.	0.	.39	65.	12.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.90		LOWEST LOS = D	AVG = 61.	20.6		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	159. PASS-HRS	1618. VEH-HRS	1877. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	137. VEH-HRS	159. PASS-HRS	1618. VEH-HRS	1877. PASS-HRS
TOTAL TRAV DISTANCE =	8355. VEH-MI.	9691. PASS-MI.	98889. VEH-MI.	114711. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		19. VPMPL	
TOTAL FUEL =	445. GALLONS		5241. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		421. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1772.	0.	1772.	1772.	0.	1772.	3850.	0.	0.	0.	.46	50.	17.7	B	17.4	2.3
2	2	2070.	636.	0.	2408.	636.	0.	2408.	3842.	8.	0.	0.	.63	50.	24.1	C	15.9	2.3
3	3	2300.	1420.	336.	3828.	1420.	336.	3828.	5478.	222.	0.	0.	.70	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3492.	0.	0.	3492.	5700.	0.	0.	0.	.61	62.	18.8	C	19.9	4.8
5	3	710.	184.	0.	3676.	184.	0.	3676.	5700.	0.	0.	0.	.64	62.	19.8	C	16.1	4.4
6	3	3820.	288.	716.	3964.	288.	716.	3964.	6150.	0.	0.	0.	.64	62.	21.3	C	17.1	4.8
7	2	1220.	0.	0.	3248.	0.	0.	3248.	4400.	0.	0.	0.	.74	62.	26.3	D	18.2	4.2
8	3	4810.	536.	680.	3784.	536.	680.	3784.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	3104.	0.	0.	3104.	4000.	0.	0.	0.	.78	61.	25.3	C	23.9	4.0
10	2	660.	260.	0.	3364.	260.	0.	3364.	4384.	16.	0.	0.	.77	62.	27.3	D	23.9	4.1
11	3	790.	512.	540.	3876.	512.	540.	3876.	5640.	460.	0.	0.	.69	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3336.	0.	0.	3336.	4100.	0.	0.	0.	.81	61.	27.5	D	21.2	3.6
13	3	1400.	280.	0.	3616.	280.	0.	3616.	6004.	96.	0.	0.	.60	62.	19.4	C	13.6	4.4
14	3	2600.	0.	1224.	3616.	0.	1224.	3616.	6004.	96.	0.	0.	.60	62.	19.4	C	20.6	4.4
15	2	2010.	0.	0.	2392.	0.	0.	2392.	3900.	0.	0.	0.	.61	62.	19.3	C	14.7	4.4
16	3	6120.	296.	588.	2688.	296.	588.	2688.	6100.	0.	0.	0.	.44	62.	14.5	B	18.2	4.4
17	2	1240.	0.	0.	2100.	0.	0.	2100.	4300.	0.	0.	0.	.49	62.	16.9	B	18.2	4.4
18	3	930.	292.	0.	2392.	292.	0.	2392.	6100.	0.	0.	0.	.39	62.	12.9	B	20.6	4.4
19	3	5330.	116.	348.	2508.	116.	348.	2508.	6100.	0.	0.	0.	.41	62.	13.5	B	20.6	4.4
20	2	2830.	0.	0.	2160.	0.	0.	2160.	3800.	0.	0.	0.	.57	61.	17.7	B	21.1	3.8
21	3	1660.	324.	396.	2484.	324.	396.	2484.	6100.	0.	0.	0.	.41	61.	13.6	B	21.1	3.8
22	2	2270.	0.	0.	2088.	0.	0.	2088.	4400.	0.	0.	0.	.47	62.	16.8	B	20.6	4.4
23	2	3040.	124.	200.	2212.	124.	200.	2212.	4100.	0.	0.	0.	.54	62.	17.8	B	20.6	4.4
24	2	2190.	0.	0.	2012.	0.	0.	2012.	4200.	0.	0.	0.	.48	65.	15.5	B	19.2	6.1
25	3	2400.	64.	2076.	2076.	64.	2076.	2076.	6150.	0.	0.	0.	.34	65.	10.6	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 61.	18.3		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	142. PASS-HRS	1740. VEH-HRS	2019. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	122. VEH-HRS	142. PASS-HRS	1740. VEH-HRS	2019. PASS-HRS
TOTAL TRAV DISTANCE =	7461. VEH-MI.	8654. PASS-MI.	106349. VEH-MI.	123365. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		19. VPMPL	
TOTAL FUEL =	399. GALLONS		5640. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		453. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1500.	0.	1500.	1500.	0.	1500.	3850.	0.	0.	0.	.39	50.	15.0	B	17.4	2.3
2	2	2070.	612.	0.	2112.	612.	0.	2112.	3849.	1.	0.	0.	.55	50.	21.1	C	15.9	2.3
3	3	2300.	1432.	264.	3544.	1432.	264.	3544.	5551.	149.	0.	0.	.64	55.	21.5	C	14.0	2.4
4	3	1020.	0.	0.	3280.	0.	0.	3280.	5700.	0.	0.	0.	.58	62.	17.6	B	19.9	4.8
5	3	710.	200.	0.	3480.	200.	0.	3480.	5700.	0.	0.	0.	.61	62.	18.7	C	16.1	4.4
6	3	3820.	308.	776.	3788.	308.	776.	3788.	6150.	0.	0.	0.	.62	62.	20.4	C	17.1	4.8
7	2	1220.	0.	0.	3012.	0.	0.	3012.	4400.	0.	0.	0.	.68	62.	24.3	C	18.2	4.4
8	3	4810.	424.	756.	3436.	424.	756.	3436.	6100.	0.	0.	0.	.56	62.	18.5	C	20.6	4.4
9	2	1370.	0.	0.	2680.	0.	0.	2680.	4000.	0.	0.	0.	.67	62.	21.6	C	23.6	4.4
10	2	660.	228.	0.	2908.	228.	0.	2908.	4382.	18.	0.	0.	.66	62.	23.5	C	23.6	4.4
11	3	790.	468.	608.	3376.	468.	608.	3376.	5694.	406.	0.	0.	.59	62.	18.2	C	30.0	4.4
12	2	1460.	0.	0.	2768.	0.	0.	2768.	4100.	0.	0.	0.	.68	62.	22.3	C	20.6	4.4
13	3	1400.	308.	0.	3076.	308.	0.	3076.	6040.	60.	0.	0.	.51	62.	16.5	B	13.6	4.4
14	3	2600.	0.	600.	3076.	0.	600.	3076.	6040.	60.	0.	0.	.51	62.	16.5	B	20.6	4.4
15	2	2010.	0.	0.	2476.	0.	0.	2476.	3900.	0.	0.	0.	.63	62.	20.0	C	14.7	4.4
16	3	6120.	336.	504.	2812.	336.	504.	2812.	6100.	0.	0.	0.	.46	62.	15.1	B	18.2	4.4
17	2	1240.	0.	0.	2308.	0.	0.	2308.	4300.	0.	0.	0.	.54	62.	18.6	C	18.2	4.4
18	3	930.	324.	0.	2632.	324.	0.	2632.	6100.	0.	0.	0.	.43	62.	14.2	B	20.6	4.4
19	3	5330.	116.	444.	2748.	116.	444.	2748.	6100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
20	2	2830.	0.	0.	2304.	0.	0.	2304.	3800.	0.	0.	0.	.61	61.	18.9	C	21.1	3.8
21	3	1660.	248.	336.	2552.	248.	336.	2552.	6100.	0.	0.	0.	.42	61.	13.9	B	21.1	3.8
22	2	2270.	0.	0.	2216.	0.	0.	2216.	4400.	0.	0.	0.	.50	62.	17.9	B	20.6	4.4
23	2	3040.	76.	184.	2292.	76.	184.	2292.	4100.	0.	0.	0.	.56	62.	18.5	C	20.6	4.4
24	2	2190.	0.	0.	2108.	0.	0.	2108.	4200.	0.	0.	0.	.50	65.	16.2	B	19.2	6.1
25	3	2400.	100.	2208.	2208.	100.	2208.	2208.	6150.	0.	0.	0.	.36	65.	11.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.68		LOWEST LOS = C	AVG = 61.	17.7		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1859. VEH-HRS	2156. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1859. VEH-HRS	2156. PASS-HRS
TOTAL TRAV DISTANCE =	7253. VEH-MI.	8413. PASS-MI.	113602. VEH-MI.	131778. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		19. VPMPL	
TOTAL FUEL =	388. GALLONS		6028. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		484. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1556.	0.	1556.	1556.	0.	1556.	3850.	0.	0.	0.	.40	50.	15.6	B	17.4	2.3
2	2	2070.	576.	0.	2132.	576.	0.	2132.	3848.	2.	0.	0.	.55	50.	21.3	C	15.9	2.3
3	3	2300.	1536.	304.	3668.	1536.	304.	3668.	5521.	179.	0.	0.	.66	55.	22.2	C	14.0	2.4
4	3	1020.	0.	0.	3364.	0.	0.	3364.	5700.	0.	0.	0.	.59	62.	18.1	C	19.9	4.8
5	3	710.	172.	0.	3536.	172.	0.	3536.	5700.	0.	0.	0.	.62	62.	19.0	C	16.1	4.4
6	3	3820.	416.	888.	3952.	416.	888.	3952.	6150.	0.	0.	0.	.64	62.	21.2	C	17.1	4.8
7	2	1220.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	18.2	4.4
8	3	4810.	544.	700.	3608.	544.	700.	3608.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
9	2	1370.	0.	0.	2908.	0.	0.	2908.	4000.	0.	0.	0.	.73	62.	23.5	C	23.6	4.4
10	2	660.	176.	0.	3084.	176.	0.	3084.	4384.	16.	0.	0.	.70	62.	24.9	C	23.6	4.3
11	3	790.	488.	736.	3572.	488.	736.	3572.	5692.	408.	0.	0.	.63	62.	19.2	C	30.0	4.4
12	2	1460.	0.	0.	2836.	0.	0.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	20.6	4.4
13	3	1400.	396.	0.	3232.	396.	0.	3232.	6036.	64.	0.	0.	.54	62.	17.4	B	13.6	4.4
14	3	2600.	0.	536.	3232.	0.	536.	3232.	6036.	64.	0.	0.	.54	62.	17.4	B	20.6	4.4
15	2	2010.	0.	0.	2696.	0.	0.	2696.	3900.	0.	0.	0.	.69	62.	21.7	C	14.7	4.4
16	3	6120.	312.	536.	3008.	312.	536.	3008.	6100.	0.	0.	0.	.49	62.	16.2	B	18.2	4.4
17	2	1240.	0.	0.	2472.	0.	0.	2472.	4300.	0.	0.	0.	.57	62.	19.9	C	18.2	4.4
18	3	930.	236.	0.	2708.	236.	0.	2708.	6100.	0.	0.	0.	.44	62.	14.6	B	20.6	4.4
19	3	5330.	140.	468.	2848.	140.	468.	2848.	6097.	3.	0.	0.	.47	62.	15.3	B	20.6	4.4
20	2	2830.	0.	0.	2380.	0.	0.	2380.	3800.	0.	0.	0.	.63	61.	19.5	C	21.1	3.8
21	3	1660.	312.	428.	2692.	312.	428.	2692.	6100.	0.	0.	0.	.44	61.	14.7	B	21.1	3.8
22	2	2270.	0.	0.	2264.	0.	0.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	20.6	4.4
23	2	3040.	100.	236.	2364.	100.	236.	2364.	4100.	0.	0.	0.	.58	62.	19.1	C	20.6	4.4
24	2	2190.	0.	0.	2128.	0.	0.	2128.	4200.	0.	0.	0.	.51	65.	16.4	B	19.2	6.1
25	3	2400.	76.	2204.	2204.	76.	2204.	2204.	6150.	0.	0.	0.	.36	65.	11.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.73		LOWEST LOS = C	AVG = 61.	18.5		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	124. VEH-HRS	143. PASS-HRS	1982. VEH-HRS	2300. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	124. VEH-HRS	143. PASS-HRS	1982. VEH-HRS	2300. PASS-HRS
TOTAL TRAV DISTANCE =	7563. VEH-MI.	8774. PASS-MI.	121165. VEH-MI.	140552. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		19. VPMPL	
TOTAL FUEL =	405. GALLONS		6433. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		517. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1836.	0.	1836.	1836.	0.	1836.	3850.	0.	0.	0.	.48	50.	18.4	C	17.4	2.3
2	2	2070.	620.	0.	2456.	620.	0.	2456.	3842.	8.	0.	0.	.64	50.	24.6	C	15.9	2.3
3	3	2300.	1260.	248.	3716.	1260.	248.	3716.	5544.	156.	0.	0.	.67	55.	22.5	C	14.0	2.4
4	3	1020.	0.	0.	3468.	0.	0.	3468.	5700.	0.	0.	0.	.61	62.	18.6	C	19.9	4.8
5	3	710.	172.	0.	3640.	172.	0.	3640.	5700.	0.	0.	0.	.64	62.	19.6	C	16.1	4.4
6	3	3820.	336.	848.	3976.	336.	848.	3976.	6150.	0.	0.	0.	.65	62.	21.4	C	17.1	4.8
7	2	1220.	0.	0.	3128.	0.	0.	3128.	4400.	0.	0.	0.	.71	62.	25.3	C	18.2	4.3
8	3	4810.	496.	848.	3624.	496.	848.	3624.	6100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
9	2	1370.	0.	0.	2776.	0.	0.	2776.	4000.	0.	0.	0.	.69	62.	22.4	C	23.6	4.4
10	2	660.	152.	0.	2928.	152.	0.	2928.	4387.	13.	0.	0.	.67	62.	23.6	C	23.6	4.4
11	3	790.	580.	652.	3508.	580.	652.	3508.	5613.	487.	0.	0.	.63	62.	18.9	C	30.0	4.4
12	2	1460.	0.	0.	2856.	0.	0.	2856.	4100.	0.	0.	0.	.70	62.	23.0	C	20.6	4.4
13	3	1400.	372.	0.	3228.	372.	0.	3228.	6040.	60.	0.	0.	.53	62.	17.4	B	13.6	4.4
14	3	2600.	0.	516.	3228.	0.	516.	3228.	6040.	60.	0.	0.	.53	62.	17.4	B	20.6	4.4
15	2	2010.	0.	0.	2712.	0.	0.	2712.	3900.	0.	0.	0.	.70	62.	21.9	C	14.7	4.4
16	3	6120.	272.	660.	2984.	272.	660.	2984.	6100.	0.	0.	0.	.49	62.	16.0	B	18.2	4.4
17	2	1240.	0.	0.	2324.	0.	0.	2324.	4300.	0.	0.	0.	.54	62.	18.7	C	18.2	4.4
18	3	930.	260.	0.	2584.	260.	0.	2584.	6100.	0.	0.	0.	.42	62.	13.9	B	20.6	4.4
19	3	5330.	136.	460.	2720.	136.	460.	2720.	6100.	0.	0.	0.	.45	62.	14.6	B	20.6	4.4
20	2	2830.	0.	0.	2260.	0.	0.	2260.	3800.	0.	0.	0.	.59	61.	18.5	C	21.1	3.8
21	3	1660.	232.	380.	2492.	232.	380.	2492.	6100.	0.	0.	0.	.41	61.	13.6	B	21.1	3.8
22	2	2270.	0.	0.	2112.	0.	0.	2112.	4400.	0.	0.	0.	.48	62.	17.0	B	20.6	4.4
23	2	3040.	88.	244.	2200.	88.	244.	2200.	4100.	0.	0.	0.	.54	62.	17.7	B	20.6	4.4
24	2	2190.	0.	0.	1956.	0.	0.	1956.	4200.	0.	0.	0.	.47	65.	15.0	B	19.2	6.1
25	3	2400.	68.	2024.	2024.	68.	2024.	2024.	6150.	0.	0.	0.	.33	65.	10.4	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.71		LOWEST LOS = C	AVG = 61.	18.2		18.6	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	141. PASS-HRS	2104. VEH-HRS	2441. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	122. VEH-HRS	141. PASS-HRS	2104. VEH-HRS	2441. PASS-HRS
TOTAL TRAV DISTANCE =	7450. VEH-MI.	8642. PASS-MI.	128615. VEH-MI.	149194. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		19. VPMPL	
TOTAL FUEL =	400. GALLONS		6833. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		549. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1844.	0.	1844.	1844.	0.	1844.	3850.	0.	0.	0.	.48	50.	18.4	C	17.4	2.3
2	2	2070.	648.	0.	2492.	648.	0.	2492.	3842.	8.	0.	0.	.65	50.	24.9	C	15.9	2.3
3	3	2300.	1340.	248.	3832.	1340.	248.	3832.	5539.	161.	0.	0.	.69	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3584.	0.	0.	3584.	5700.	0.	0.	0.	.63	62.	19.3	C	19.9	4.8
5	3	710.	220.	0.	3804.	220.	0.	3804.	5700.	0.	0.	0.	.67	62.	20.5	C	16.1	4.4
6	3	3820.	412.	880.	4216.	412.	880.	4216.	6150.	0.	0.	0.	.69	62.	22.7	C	17.1	4.8
7	2	1220.	0.	0.	3336.	0.	0.	3336.	4400.	0.	0.	0.	.76	62.	27.1	D	18.3	4.1
8	3	4810.	468.	788.	3804.	468.	788.	3804.	6100.	0.	0.	0.	.62	62.	20.5	C	20.6	4.4
9	2	1370.	0.	0.	3016.	0.	0.	3016.	4000.	0.	0.	0.	.75	62.	24.3	C	23.6	4.4
10	2	660.	204.	0.	3220.	204.	0.	3220.	4384.	16.	0.	0.	.73	62.	26.0	D	23.7	4.3
11	3	790.	604.	656.	3824.	604.	656.	3824.	5580.	520.	0.	0.	.69	62.	20.6	C	30.0	4.4
12	2	1460.	0.	0.	3168.	0.	0.	3168.	4100.	0.	0.	0.	.77	61.	25.8	C	20.9	4.0
13	3	1400.	400.	0.	3568.	400.	0.	3568.	6028.	72.	0.	0.	.59	62.	19.2	C	13.6	4.4
14	3	2600.	0.	652.	3568.	0.	652.	3568.	6028.	72.	0.	0.	.59	62.	19.2	C	20.6	4.4
15	2	2010.	0.	0.	2916.	0.	0.	2916.	3900.	0.	0.	0.	.75	62.	23.5	C	14.7	4.4
16	3	6120.	308.	580.	3224.	308.	580.	3224.	6100.	0.	0.	0.	.53	62.	17.3	B	18.2	4.4
17	2	1240.	0.	0.	2644.	0.	0.	2644.	4300.	0.	0.	0.	.61	62.	21.3	C	18.2	4.4
18	3	930.	308.	0.	2952.	308.	0.	2952.	6100.	0.	0.	0.	.48	62.	15.9	B	20.6	4.4
19	3	5330.	116.	428.	3068.	116.	428.	3068.	6091.	9.	0.	0.	.50	62.	16.5	B	20.6	4.4
20	2	2830.	0.	0.	2640.	0.	0.	2640.	3800.	0.	0.	0.	.69	61.	21.6	C	21.1	3.8
21	3	1660.	312.	372.	2952.	312.	372.	2952.	6100.	0.	0.	0.	.48	61.	16.1	B	21.1	3.8
22	2	2270.	0.	0.	2580.	0.	0.	2580.	4400.	0.	0.	0.	.59	62.	20.8	C	20.6	4.4
23	2	3040.	72.	264.	2652.	72.	264.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	20.6	4.4
24	2	2190.	0.	0.	2388.	0.	0.	2388.	4200.	0.	0.	0.	.57	65.	18.4	C	19.2	6.1
25	3	2400.	88.	2476.	2476.	88.	2476.	2476.	6150.	0.	0.	0.	.40	65.	12.7	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.77		LOWEST LOS = D	AVG = 61.	20.1		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	156. PASS-HRS	2238. VEH-HRS	2597. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	156. PASS-HRS	2238. VEH-HRS	2597. PASS-HRS
TOTAL TRAV DISTANCE =	8207. VEH-MI.	9520. PASS-MI.	136822. VEH-MI.	158714. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		19. VPMPL	
TOTAL FUEL =	439. GALLONS		7272. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		584. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1816.	0.	1816.	1816.	0.	1816.	3850.	0.	0.	0.	.47	50.	18.2	C	17.4	2.3
2	2	2070.	616.	0.	2432.	616.	0.	2432.	3843.	7.	0.	0.	.63	50.	24.3	C	15.9	2.3
3	3	2300.	1312.	248.	3744.	1312.	248.	3744.	5540.	160.	0.	0.	.68	55.	22.7	C	14.0	2.4
4	3	1020.	0.	0.	3496.	0.	0.	3496.	5700.	0.	0.	0.	.61	62.	18.8	C	19.9	4.8
5	3	710.	212.	0.	3708.	212.	0.	3708.	5700.	0.	0.	0.	.65	62.	19.9	C	16.1	4.4
6	3	3820.	296.	872.	4004.	296.	872.	4004.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3132.	0.	0.	3132.	4400.	0.	0.	0.	.71	62.	25.3	C	18.2	4.3
8	3	4810.	496.	760.	3628.	496.	760.	3628.	6100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
9	2	1370.	0.	0.	2868.	0.	0.	2868.	4000.	0.	0.	0.	.72	62.	23.1	C	23.6	4.4
10	2	660.	220.	0.	3088.	220.	0.	3088.	4385.	15.	0.	0.	.70	62.	24.9	C	23.6	4.3
11	3	790.	636.	552.	3724.	636.	552.	3724.	5627.	473.	0.	0.	.66	62.	20.0	C	30.0	4.4
12	2	1460.	0.	0.	3172.	0.	0.	3172.	4100.	0.	0.	0.	.77	61.	25.8	C	20.9	4.0
13	3	1400.	380.	0.	3552.	380.	0.	3552.	6020.	80.	0.	0.	.59	62.	19.1	C	13.6	4.4
14	3	2600.	0.	744.	3552.	0.	744.	3552.	6020.	80.	0.	0.	.59	62.	19.1	C	20.6	4.4
15	2	2010.	0.	0.	2808.	0.	0.	2808.	3900.	0.	0.	0.	.72	62.	22.6	C	14.7	4.4
16	3	6120.	260.	580.	3068.	260.	580.	3068.	6100.	0.	0.	0.	.50	62.	16.5	B	18.2	4.4
17	2	1240.	0.	0.	2488.	0.	0.	2488.	4300.	0.	0.	0.	.58	62.	20.1	C	18.2	4.4
18	3	930.	300.	0.	2788.	300.	0.	2788.	6100.	0.	0.	0.	.46	62.	15.0	B	20.6	4.4
19	3	5330.	92.	496.	2880.	92.	496.	2880.	6096.	4.	0.	0.	.47	62.	15.5	B	20.6	4.4
20	2	2830.	0.	0.	2384.	0.	0.	2384.	3800.	0.	0.	0.	.63	61.	19.5	C	21.1	3.8
21	3	1660.	316.	416.	2700.	316.	416.	2700.	6100.	0.	0.	0.	.44	61.	14.8	B	21.1	3.8
22	2	2270.	0.	0.	2284.	0.	0.	2284.	4400.	0.	0.	0.	.52	62.	18.4	C	20.6	4.4
23	2	3040.	80.	240.	2364.	80.	240.	2364.	4100.	0.	0.	0.	.58	62.	19.1	C	20.6	4.4
24	2	2190.	0.	0.	2124.	0.	0.	2124.	4200.	0.	0.	0.	.51	65.	16.3	B	19.2	6.1
25	3	2400.	112.	2236.	2236.	112.	2236.	2236.	6150.	0.	0.	0.	.36	65.	11.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.77		LOWEST LOS = C	AVG = 61.	19.0		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 19 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	127. VEH-HRS	147. PASS-HRS	2366. VEH-HRS	2744. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	127. VEH-HRS	147. PASS-HRS	2366. VEH-HRS	2744. PASS-HRS
TOTAL TRAV DISTANCE =	7771. VEH-MI.	9015. PASS-MI.	144594. VEH-MI.	167729. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		19. VPMPL	
TOTAL FUEL =	416. GALLONS		7688. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		618. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2124.	0.	2124.	2124.	0.	2124.	3850.	0.	0.	0.	.55	50.	21.2	C	17.4	2.3
2	2	2070.	736.	0.	2860.	736.	0.	2860.	3832.	18.	0.	0.	.75	50.	28.6	D	15.9	2.3
3	3	2300.	1548.	384.	4408.	1548.	384.	4408.	5430.	270.	0.	0.	.81	55.	26.7	D	14.0	2.4
4	3	1020.	0.	0.	4024.	0.	0.	4024.	5700.	0.	0.	0.	.71	62.	21.6	C	19.9	4.8
5	3	710.	200.	0.	4224.	200.	0.	4224.	5700.	0.	0.	0.	.74	62.	22.7	C	16.1	4.4
6	3	3820.	400.	888.	4624.	400.	888.	4624.	6150.	0.	0.	0.	.75	62.	25.0	C	17.3	4.6
7	2	1220.	0.	0.	3736.	0.	0.	3736.	4400.	0.	0.	0.	.85	60.	31.2	D	19.1	3.1
8	3	4810.	560.	856.	4296.	560.	856.	4296.	6100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
9	2	1370.	0.	0.	3440.	0.	0.	3440.	4000.	0.	0.	0.	.86	59.	28.9	D	25.0	3.0
10	2	660.	276.	0.	3716.	276.	0.	3716.	4380.	20.	0.	0.	.85	60.	31.1	D	24.9	3.1
11	3	790.	672.	728.	4388.	672.	728.	4388.	5516.	584.	0.	0.	.80	62.	23.6	C	30.0	4.4
12	2	1460.	0.	0.	3660.	0.	0.	3660.	4100.	0.	0.	0.	.89	58.	31.5	D	22.2	2.7
13	3	1400.	404.	0.	4064.	404.	0.	4064.	5996.	104.	0.	0.	.68	62.	21.8	C	13.6	4.4
14	3	2600.	0.	1048.	4064.	0.	1048.	4064.	5996.	104.	0.	0.	.68	62.	21.8	C	20.6	4.4
15	2	2010.	0.	0.	3016.	0.	0.	3016.	3900.	0.	0.	0.	.77	62.	24.3	C	14.7	4.4
16	3	6120.	388.	696.	3404.	388.	696.	3404.	6100.	0.	0.	0.	.56	62.	18.3	C	18.2	4.4
17	2	1240.	0.	0.	2708.	0.	0.	2708.	4300.	0.	0.	0.	.63	62.	21.8	C	18.2	4.4
18	3	930.	436.	0.	3144.	436.	0.	3144.	6100.	0.	0.	0.	.52	62.	16.9	B	20.6	4.4
19	3	5330.	76.	468.	3220.	76.	468.	3220.	6086.	14.	0.	0.	.53	62.	17.3	B	20.6	4.4
20	2	2830.	0.	0.	2752.	0.	0.	2752.	3800.	0.	0.	0.	.72	61.	22.6	C	21.1	3.8
21	3	1660.	256.	380.	3008.	256.	380.	3008.	6100.	0.	0.	0.	.49	61.	16.4	B	21.1	3.8
22	2	2270.	0.	0.	2628.	0.	0.	2628.	4400.	0.	0.	0.	.60	62.	21.2	C	20.6	4.4
23	2	3040.	108.	244.	2736.	108.	244.	2736.	4100.	0.	0.	0.	.67	62.	22.1	C	20.6	4.4
24	2	2190.	0.	0.	2492.	0.	0.	2492.	4200.	0.	0.	0.	.59	65.	19.2	C	19.2	6.1
25	3	2400.	60.	2552.	2552.	60.	2552.	2552.	6150.	0.	0.	0.	.41	65.	13.1	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 61.	22.0		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	147. VEH-HRS	170. PASS-HRS	2512. VEH-HRS	2914. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	147. VEH-HRS	170. PASS-HRS	2512. VEH-HRS	2914. PASS-HRS
TOTAL TRAV DISTANCE =	8917. VEH-MI.	10344. PASS-MI.	153511. VEH-MI.	178072. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		19. VPMPL	
TOTAL FUEL =	475. GALLONS		8163. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		655. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2000.	0.	2000.	2000.	0.	2000.	3850.	0.	0.	0.	.52	50.	20.0	C	17.4	2.3
2	2	2070.	432.	0.	2432.	432.	0.	2432.	3843.	7.	0.	0.	.63	50.	24.3	C	15.9	2.3
3	3	2300.	1424.	240.	3856.	1424.	240.	3856.	5540.	160.	0.	0.	.70	55.	23.4	C	14.0	2.4
4	3	1020.	0.	0.	3616.	0.	0.	3616.	5700.	0.	0.	0.	.63	62.	19.4	C	19.9	4.8
5	3	710.	196.	0.	3812.	196.	0.	3812.	5700.	0.	0.	0.	.67	62.	20.5	C	16.1	4.4
6	3	3820.	336.	808.	4148.	336.	808.	4148.	6150.	0.	0.	0.	.67	62.	22.3	C	17.1	4.8
7	2	1220.	0.	0.	3340.	0.	0.	3340.	4400.	0.	0.	0.	.76	62.	27.1	D	18.3	4.1
8	3	4810.	492.	688.	3832.	492.	688.	3832.	6100.	0.	0.	0.	.63	62.	20.6	C	20.6	4.4
9	2	1370.	0.	0.	3144.	0.	0.	3144.	4000.	0.	0.	0.	.79	61.	25.7	C	24.0	3.9
10	2	660.	276.	0.	3420.	276.	0.	3420.	4378.	22.	0.	0.	.78	61.	27.9	D	24.0	4.0
11	3	790.	672.	736.	4092.	672.	736.	4092.	5522.	578.	0.	0.	.74	62.	22.0	C	30.0	4.4
12	2	1460.	0.	0.	3356.	0.	0.	3356.	4100.	0.	0.	0.	.82	61.	27.7	D	21.3	3.5
13	3	1400.	436.	0.	3792.	436.	0.	3792.	6016.	84.	0.	0.	.63	62.	20.4	C	13.6	4.4
14	3	2600.	0.	740.	3792.	0.	740.	3792.	6016.	84.	0.	0.	.63	62.	20.4	C	20.6	4.4
15	2	2010.	0.	0.	3052.	0.	0.	3052.	3900.	0.	0.	0.	.78	62.	24.6	C	14.7	4.4
16	3	6120.	376.	656.	3428.	376.	656.	3428.	6100.	0.	0.	0.	.56	62.	18.4	C	18.2	4.4
17	2	1240.	0.	0.	2772.	0.	0.	2772.	4300.	0.	0.	0.	.64	62.	22.4	C	18.2	4.4
18	3	930.	460.	0.	3232.	460.	0.	3232.	6100.	0.	0.	0.	.53	62.	17.4	B	20.6	4.4
19	3	5330.	104.	516.	3336.	104.	516.	3336.	6082.	18.	0.	0.	.55	62.	17.9	B	20.6	4.4
20	2	2830.	0.	0.	2820.	0.	0.	2820.	3800.	0.	0.	0.	.74	61.	23.1	C	21.1	3.8
21	3	1660.	320.	424.	3140.	320.	424.	3140.	6100.	0.	0.	0.	.51	61.	17.2	B	21.1	3.8
22	2	2270.	0.	0.	2716.	0.	0.	2716.	4400.	0.	0.	0.	.62	62.	21.9	C	20.6	4.4
23	2	3040.	100.	328.	2816.	100.	328.	2816.	4100.	0.	0.	0.	.69	62.	22.7	C	20.6	4.4
24	2	2190.	0.	0.	2488.	0.	0.	2488.	4200.	0.	0.	0.	.59	65.	19.1	C	19.2	6.1
25	3	2400.	72.	2560.	2560.	72.	2560.	2560.	6150.	0.	0.	0.	.42	65.	13.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.82 LOWEST LOS = D AVG = 61. 20.9 18.8 4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 21 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	140. VEH-HRS	162. PASS-HRS	2652. VEH-HRS	3076. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	162. PASS-HRS	2652. VEH-HRS	3076. PASS-HRS
TOTAL TRAV DISTANCE =	8540. VEH-MI.	9906. PASS-MI.	162051. VEH-MI.	187979. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		19. VPMPL	
TOTAL FUEL =	455. GALLONS		8618. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		691. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1740.	0.	1740.	1740.	0.	1740.	3850.	0.	0.	0.	.45	50.	17.4	B	17.4	2.3
2	2	2070.	564.	0.	2304.	564.	0.	2304.	3845.	5.	0.	0.	.60	50.	23.0	C	15.9	2.3
3	3	2300.	1396.	296.	3700.	1396.	296.	3700.	5518.	182.	0.	0.	.67	55.	22.4	C	14.0	2.4
4	3	1020.	0.	0.	3404.	0.	0.	3404.	5700.	0.	0.	0.	.60	62.	18.3	C	19.9	4.8
5	3	710.	236.	0.	3640.	236.	0.	3640.	5700.	0.	0.	0.	.64	62.	19.6	C	16.1	4.4
6	3	3820.	392.	892.	4032.	392.	892.	4032.	6150.	0.	0.	0.	.66	62.	21.7	C	17.1	4.8
7	2	1220.	0.	0.	3140.	0.	0.	3140.	4400.	0.	0.	0.	.71	62.	25.4	C	18.2	4.3
8	3	4810.	636.	800.	3776.	636.	800.	3776.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	2976.	0.	0.	2976.	4000.	0.	0.	0.	.74	62.	24.0	C	23.6	4.4
10	2	660.	396.	0.	3372.	396.	0.	3372.	4367.	33.	0.	0.	.77	61.	27.4	D	23.9	4.0
11	3	790.	684.	740.	4056.	684.	740.	4056.	5501.	599.	0.	0.	.74	62.	21.8	C	30.0	4.4
12	2	1460.	0.	0.	3316.	0.	0.	3316.	4100.	0.	0.	0.	.81	61.	27.3	D	21.2	3.7
13	3	1400.	304.	0.	3620.	304.	0.	3620.	6060.	40.	0.	0.	.60	62.	19.5	C	13.6	4.4
14	3	2600.	0.	492.	3620.	0.	492.	3620.	6060.	40.	0.	0.	.60	62.	19.5	C	20.6	4.4
15	2	2010.	0.	0.	3128.	0.	0.	3128.	3900.	0.	0.	0.	.80	61.	25.7	C	15.0	3.8
16	3	6120.	352.	640.	3480.	352.	640.	3480.	6100.	0.	0.	0.	.57	62.	18.7	C	18.2	4.4
17	2	1240.	0.	0.	2840.	0.	0.	2840.	4300.	0.	0.	0.	.66	62.	22.9	C	18.2	4.4
18	3	930.	316.	0.	3156.	316.	0.	3156.	6100.	0.	0.	0.	.52	62.	17.0	B	20.6	4.4
19	3	5330.	156.	600.	3312.	156.	600.	3312.	6088.	12.	0.	0.	.54	62.	17.8	B	20.6	4.4
20	2	2830.	0.	0.	2712.	0.	0.	2712.	3800.	0.	0.	0.	.71	61.	22.2	C	21.1	3.8
21	3	1660.	296.	360.	3008.	296.	360.	3008.	6100.	0.	0.	0.	.49	61.	16.4	B	21.1	3.8
22	2	2270.	0.	0.	2648.	0.	0.	2648.	4400.	0.	0.	0.	.60	62.	21.4	C	20.6	4.4
23	2	3040.	88.	376.	2736.	88.	376.	2736.	4100.	0.	0.	0.	.67	62.	22.1	C	20.6	4.4
24	2	2190.	0.	0.	2360.	0.	0.	2360.	4200.	0.	0.	0.	.56	65.	18.2	C	19.2	6.1
25	3	2400.	104.	2464.	2464.	104.	2464.	2464.	6150.	0.	0.	0.	.40	65.	12.6	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 61.	20.4		18.8	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 22 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	158. PASS-HRS	2788. VEH-HRS	3234. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	136. VEH-HRS	158. PASS-HRS	2788. VEH-HRS	3234. PASS-HRS
TOTAL TRAV DISTANCE =	8343. VEH-MI.	9678. PASS-MI.	170394. VEH-MI.	197657. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		19. VPMPL	
TOTAL FUEL =	445. GALLONS		9063. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		727. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1876.	0.	1876.	1876.	0.	1876.	3850.	0.	0.	0.	.49	50.	18.8	C	17.4	2.3
2	2	2070.	568.	0.	2444.	568.	0.	2444.	3841.	9.	0.	0.	.64	50.	24.4	C	15.9	2.3
3	3	2300.	1532.	324.	3976.	1532.	324.	3976.	5489.	211.	0.	0.	.72	55.	24.1	C	14.0	2.4
4	3	1020.	0.	0.	3652.	0.	0.	3652.	5700.	0.	0.	0.	.64	62.	19.6	C	19.9	4.8
5	3	710.	168.	0.	3820.	168.	0.	3820.	5700.	0.	0.	0.	.67	62.	20.5	C	16.1	4.4
6	3	3820.	364.	892.	4184.	364.	892.	4184.	6150.	0.	0.	0.	.68	62.	22.5	C	17.1	4.8
7	2	1220.	0.	0.	3292.	0.	0.	3292.	4400.	0.	0.	0.	.75	62.	26.7	D	18.3	4.2
8	3	4810.	636.	836.	3928.	636.	836.	3928.	6100.	0.	0.	0.	.64	62.	21.1	C	20.6	4.4
9	2	1370.	0.	0.	3092.	0.	0.	3092.	4000.	0.	0.	0.	.77	61.	25.2	C	23.9	4.0
10	2	660.	248.	0.	3340.	248.	0.	3340.	4380.	20.	0.	0.	.76	62.	27.1	D	23.8	4.1
11	3	790.	724.	720.	4064.	724.	720.	4064.	5484.	616.	0.	0.	.74	62.	21.8	C	30.0	4.4
12	2	1460.	0.	0.	3344.	0.	0.	3344.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
13	3	1400.	420.	0.	3764.	420.	0.	3764.	6036.	64.	0.	0.	.62	62.	20.2	C	13.6	4.4
14	3	2600.	0.	572.	3764.	0.	572.	3764.	6036.	64.	0.	0.	.62	62.	20.2	C	20.6	4.4
15	2	2010.	0.	0.	3192.	0.	0.	3192.	3900.	0.	0.	0.	.82	61.	26.3	D	15.1	3.5
16	3	6120.	376.	900.	3568.	376.	900.	3568.	6100.	0.	0.	0.	.58	62.	19.2	C	18.2	4.4
17	2	1240.	0.	0.	2668.	0.	0.	2668.	4300.	0.	0.	0.	.62	62.	21.5	C	18.2	4.4
18	3	930.	312.	0.	2980.	312.	0.	2980.	6100.	0.	0.	0.	.49	62.	16.0	B	20.6	4.4
19	3	5330.	132.	488.	3112.	132.	488.	3112.	6092.	8.	0.	0.	.51	62.	16.7	B	20.6	4.4
20	2	2830.	0.	0.	2624.	0.	0.	2624.	3800.	0.	0.	0.	.69	61.	21.5	C	21.1	3.8
21	3	1660.	340.	452.	2964.	340.	452.	2964.	6100.	0.	0.	0.	.49	61.	16.2	B	21.1	3.8
22	2	2270.	0.	0.	2512.	0.	0.	2512.	4400.	0.	0.	0.	.57	62.	20.3	C	20.6	4.4
23	2	3040.	96.	360.	2608.	96.	360.	2608.	4100.	0.	0.	0.	.64	62.	21.0	C	20.6	4.4
24	2	2190.	0.	0.	2248.	0.	0.	2248.	4200.	0.	0.	0.	.54	65.	17.3	B	19.2	6.1
25	3	2400.	72.	2320.	2320.	72.	2320.	2320.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.82		LOWEST LOS = D	AVG = 61.	20.6		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	138. VEH-HRS	160. PASS-HRS	2926. VEH-HRS	3394. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	138. VEH-HRS	160. PASS-HRS	2926. VEH-HRS	3394. PASS-HRS
TOTAL TRAV DISTANCE =	8402. VEH-MI.	9746. PASS-MI.	178795. VEH-MI.	207403. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		19. VPMPL	
TOTAL FUEL =	449. GALLONS		9512. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		763. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1940.	0.	1940.	1940.	0.	1940.	3850.	0.	0.	0.	.50	50.	19.4	C	17.4	2.3
2	2	2070.	600.	0.	2540.	600.	0.	2540.	3839.	11.	0.	0.	.66	50.	25.4	C	15.9	2.3
3	3	2300.	1656.	364.	4196.	1656.	364.	4196.	5466.	234.	0.	0.	.77	55.	25.4	C	14.0	2.4
4	3	1020.	0.	0.	3832.	0.	0.	3832.	5700.	0.	0.	0.	.67	62.	20.6	C	19.9	4.8
5	3	710.	208.	0.	4040.	208.	0.	4040.	5700.	0.	0.	0.	.71	62.	21.7	C	16.1	4.4
6	3	3820.	400.	948.	4440.	400.	948.	4440.	6134.	16.	0.	0.	.72	62.	23.9	C	17.1	4.8
7	2	1220.	0.	0.	3492.	0.	0.	3492.	4400.	0.	0.	0.	.79	61.	28.6	D	18.5	3.8
8	3	4810.	588.	912.	4080.	588.	912.	4080.	6100.	0.	0.	0.	.67	62.	21.9	C	20.6	4.4
9	2	1370.	0.	0.	3168.	0.	0.	3168.	4000.	0.	0.	0.	.79	61.	25.9	C	24.1	3.9
10	2	660.	244.	0.	3412.	244.	0.	3412.	4378.	22.	0.	0.	.78	61.	27.8	D	24.0	4.0
11	3	790.	752.	816.	4164.	752.	816.	4164.	5470.	630.	0.	0.	.76	62.	22.4	C	30.0	4.4
12	2	1460.	0.	0.	3348.	0.	0.	3348.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
13	3	1400.	444.	0.	3792.	444.	0.	3792.	6020.	80.	0.	0.	.63	62.	20.4	C	13.6	4.4
14	3	2600.	0.	700.	3792.	0.	700.	3792.	6020.	80.	0.	0.	.63	62.	20.4	C	20.6	4.4
15	2	2010.	0.	0.	3092.	0.	0.	3092.	3900.	0.	0.	0.	.79	61.	25.3	C	14.9	3.9
16	3	6120.	260.	664.	3352.	260.	664.	3352.	6100.	0.	0.	0.	.55	62.	18.0	C	18.2	4.4
17	2	1240.	0.	0.	2688.	0.	0.	2688.	4300.	0.	0.	0.	.63	62.	21.7	C	18.2	4.4
18	3	930.	268.	0.	2956.	268.	0.	2956.	6100.	0.	0.	0.	.48	62.	15.9	B	20.6	4.4
19	3	5330.	140.	520.	3096.	140.	520.	3096.	6093.	7.	0.	0.	.51	62.	16.6	B	20.6	4.4
20	2	2830.	0.	0.	2576.	0.	0.	2576.	3800.	0.	0.	0.	.68	61.	21.1	C	21.1	3.8
21	3	1660.	316.	416.	2892.	316.	416.	2892.	6100.	0.	0.	0.	.47	61.	15.8	B	21.1	3.8
22	2	2270.	0.	0.	2476.	0.	0.	2476.	4400.	0.	0.	0.	.56	62.	20.0	C	20.6	4.4
23	2	3040.	96.	336.	2572.	96.	336.	2572.	4100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
24	2	2190.	0.	0.	2236.	0.	0.	2236.	4200.	0.	0.	0.	.53	65.	17.2	B	19.2	6.1
25	3	2400.	120.	2356.	2356.	120.	2356.	2356.	6150.	0.	0.	0.	.38	65.	12.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.82 LOWEST LOS = D AVG = 61. 20.7 18.7 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	3064. VEH-HRS	3555. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	3064. VEH-HRS	3555. PASS-HRS
TOTAL TRAV DISTANCE =	8468. VEH-MI.	9822. PASS-MI.	187263. VEH-MI.	217225. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		19. VPMPL	
TOTAL FUEL =	453. GALLONS		9965. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		799. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	64.	74.	0.	0.	64.	74.	3947.	4578.	61.5	209.	1.	13.	3.	14:00
2	80.	93.	0.	0.	80.	93.	4912.	5698.	61.4	261.	1.	16.	4.	14:15
3	116.	134.	0.	0.	116.	134.	7102.	8239.	61.4	377.	1.	24.	6.	14:30
4	139.	161.	0.	0.	139.	161.	8472.	9827.	61.0	448.	1.	27.	7.	14:45
5	115.	134.	0.	0.	115.	134.	7104.	8240.	61.5	376.	1.	24.	6.	15:00
6	133.	155.	0.	0.	133.	155.	8170.	9477.	61.3	432.	1.	27.	7.	15:15
7	148.	172.	0.	0.	148.	172.	9016.	10459.	60.9	473.	1.	28.	8.	15:30
8	155.	180.	0.	0.	155.	180.	9397.	10900.	60.6	491.	1.	28.	8.	15:45
9	151.	176.	0.	0.	151.	176.	9229.	10705.	60.9	491.	1.	29.	8.	16:00
10	121.	140.	0.	0.	121.	140.	7397.	8580.	61.4	394.	1.	25.	7.	16:15
11	140.	162.	0.	0.	140.	162.	8555.	9923.	61.2	456.	1.	28.	8.	16:30
12	118.	137.	0.	0.	118.	137.	7234.	8392.	61.2	388.	1.	24.	6.	16:45
13	137.	159.	0.	0.	137.	159.	8355.	9691.	60.8	445.	1.	26.	7.	17:00
14	122.	142.	0.	0.	122.	142.	7461.	8654.	61.1	399.	1.	24.	7.	17:15
15	118.	137.	0.	0.	118.	137.	7253.	8413.	61.2	388.	1.	24.	6.	17:30
16	124.	143.	0.	0.	124.	143.	7563.	8774.	61.2	405.	1.	25.	7.	17:45
17	122.	141.	0.	0.	122.	141.	7450.	8642.	61.1	400.	1.	24.	7.	18:00
18	134.	156.	0.	0.	134.	156.	8207.	9520.	61.2	439.	1.	27.	7.	18:15
19	127.	147.	0.	0.	127.	147.	7771.	9015.	61.1	416.	1.	25.	7.	18:30
20	147.	170.	0.	0.	147.	170.	8917.	10344.	60.9	475.	1.	28.	8.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	140.	162.	0.	0.	140.	162.	8540.	9906.	61.2	455.	1.	28.	8.	19:00
22	136.	158.	0.	0.	136.	158.	8343.	9678.	61.2	445.	1.	27.	7.	19:15
23	138.	160.	0.	0.	138.	160.	8402.	9746.	61.1	449.	1.	27.	7.	19:30
24	139.	161.	0.	0.	139.	161.	8468.	9822.	61.1	453.	1.	27.	8.	19:45
TOTAL	3064.	3555.	0.	0.	3064.	3555.	187263.	217225.	61.1	9965.	28.	605.	166.	

Opening Year (2025) Interim Build
(Aux Lanes Only)
Southbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2172.	0.	2172.	2172.	0.	2172.	3850.	0.	0.	0.	.56	50.	21.7	C	17.4	2.3
2	2	2070.	624.	0.	2796.	624.	0.	2796.	3836.	14.	0.	0.	.73	50.	28.0	D	15.9	2.3
3	3	2300.	1684.	328.	4480.	1684.	328.	4480.	5880.	220.	0.	0.	.76	55.	27.2	D	14.0	2.4
4	3	1020.	0.	0.	4152.	0.	0.	4152.	6100.	0.	0.	0.	.68	62.	22.3	C	19.9	4.8
5	3	710.	184.	0.	4336.	184.	0.	4336.	6100.	0.	0.	0.	.71	62.	23.3	C	16.1	4.4
6	3	3820.	400.	1052.	4736.	400.	1052.	4736.	6103.	47.	0.	0.	.78	61.	25.7	C	17.4	4.5
7	2	1220.	0.	0.	3684.	0.	0.	3684.	4400.	0.	0.	0.	.84	60.	30.6	D	19.0	3.3
8	3	4810.	592.	720.	4276.	592.	720.	4276.	6100.	0.	0.	0.	.70	62.	23.0	C	20.6	4.4
9	2	1370.	0.	0.	3556.	0.	0.	3556.	4000.	0.	0.	0.	.89	58.	30.5	D	25.5	2.8
10	2	660.	300.	0.	3856.	300.	0.	3856.	4375.	25.	0.	0.	.88	59.	32.9	D	25.4	2.9
11	3	790.	788.	872.	4644.	788.	872.	4644.	5429.	671.	0.	0.	.86	60.	26.0	C	31.9	3.1
12	2	1460.	0.	0.	3772.	0.	0.	3772.	4100.	0.	0.	0.	.92	57.	33.2	D	22.6	2.4
13	3	1400.	536.	0.	4308.	536.	0.	4308.	6024.	76.	0.	0.	.72	62.	23.2	C	13.6	4.4
14	3	2600.	0.	620.	4308.	0.	620.	4308.	6024.	76.	0.	0.	.72	62.	23.2	C	20.6	4.4
15	2	2010.	0.	0.	3688.	0.	0.	3688.	3900.	0.	0.	0.	.95	55.	33.3	D	16.3	2.1
16	3	6120.	432.	676.	4120.	432.	676.	4120.	6100.	0.	0.	0.	.68	62.	22.2	C	18.2	4.4
17	2	1240.	0.	0.	3444.	0.	0.	3444.	4300.	0.	0.	0.	.80	61.	28.2	D	18.6	3.8
18	3	930.	524.	0.	3968.	524.	0.	3968.	6099.	1.	0.	0.	.65	62.	21.3	C	20.6	4.4
19	3	5330.	116.	556.	4084.	116.	556.	4084.	6063.	37.	0.	0.	.67	62.	22.0	C	20.6	4.4
20	2	2830.	0.	0.	3528.	0.	0.	3528.	3800.	0.	0.	0.	.93	56.	31.5	D	22.8	2.2
21	3	1660.	460.	568.	3988.	460.	568.	3988.	5922.	178.	0.	0.	.67	61.	21.8	C	21.1	3.8
22	2	2270.	0.	0.	3420.	0.	0.	3420.	4400.	0.	0.	0.	.78	61.	27.9	D	20.9	4.0
23	2	3040.	132.	356.	3552.	132.	356.	3552.	4100.	0.	0.	0.	.87	59.	30.0	D	21.9	3.0
24	2	2190.	0.	0.	3196.	0.	0.	3196.	4200.	0.	0.	0.	.76	64.	25.0	C	19.6	5.5
25	3	2400.	120.	3316.	3316.	120.	3316.	3316.	6150.	0.	0.	0.	.54	65.	17.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.95		LOWEST LOS = D	AVG = 59.	25.1		19.0	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	180. VEH-HRS	213. PASS-HRS	180. VEH-HRS	213. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	180. VEH-HRS	213. PASS-HRS	180. VEH-HRS	213. PASS-HRS
TOTAL TRAV DISTANCE =	10727. VEH-MI.	12657. PASS-MI.	10727. VEH-MI.	12657. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	25. VPMPL		25. VPMPL	
TOTAL FUEL =	565. GALLONS		565. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		41. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2864.	0.	2864.	2864.	0.	2864.	3850.	0.	0.	0.	.74	50.	28.6	D	17.4	2.3
2	2	2070.	568.	0.	3432.	568.	0.	3432.	3830.	20.	0.	0.	.90	50.	34.3	D	15.9	2.3
3	3	2300.	1512.	372.	4944.	1512.	372.	4944.	5818.	282.	0.	0.	.85	55.	30.0	D	14.0	2.4
4	3	1020.	0.	0.	4572.	0.	0.	4572.	6100.	0.	0.	0.	.75	62.	24.6	C	19.9	4.8
5	3	710.	144.	0.	4716.	144.	0.	4716.	6100.	0.	0.	0.	.77	61.	25.6	C	16.3	4.0
6	3	3820.	324.	1252.	5040.	324.	1252.	5040.	6065.	85.	0.	0.	.83	60.	27.9	D	17.8	3.8
7	2	1220.	0.	0.	3788.	0.	0.	3788.	4400.	0.	0.	0.	.86	59.	31.9	D	19.2	3.0
8	3	4810.	632.	724.	4420.	632.	724.	4420.	6100.	0.	0.	0.	.72	62.	23.8	C	20.6	4.4
9	2	1370.	0.	0.	3696.	0.	0.	3696.	4000.	0.	0.	0.	.92	57.	32.6	D	26.3	2.4
10	2	660.	292.	0.	3988.	292.	0.	3988.	4376.	24.	0.	0.	.91	57.	34.8	D	26.0	2.5
11	3	790.	936.	888.	4924.	936.	888.	4924.	5352.	748.	0.	0.	.92	57.	28.9	D	34.0	2.4
12	2	1460.	0.	0.	4036.	0.	0.	4036.	4100.	0.	0.	0.	.98	53.	38.2	E	23.7	2.0
13	3	1400.	496.	0.	4532.	496.	0.	4532.	6036.	64.	0.	0.	.75	62.	24.4	C	13.6	4.4
14	3	2600.	0.	604.	4532.	0.	604.	4504.	6036.	64.	* 182.	28.	.75	56.	26.6	F	20.4	4.4
15	2	2010.	0.	0.	3928.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	448.	696.	4376.	448.	692.	4348.	6100.	0.	0.	0.	.71	62.	23.4	C	18.2	4.4
17	2	1240.	0.	0.	3680.	0.	0.	3656.	4300.	0.	0.	0.	.85	60.	30.6	D	19.1	3.1
18	3	930.	496.	0.	4176.	496.	0.	4152.	6098.	2.	0.	0.	.68	62.	22.3	C	20.6	4.4
19	3	5330.	144.	604.	4320.	144.	601.	4296.	6059.	41.	0.	0.	.71	62.	23.1	C	20.6	4.4
20	2	2830.	0.	0.	3716.	0.	0.	3696.	3800.	0.	0.	0.	.97	53.	34.6	D	23.5	2.0
21	3	1660.	504.	636.	4220.	504.	633.	4200.	5843.	257.	0.	0.	.72	61.	22.9	C	21.1	3.8
22	2	2270.	0.	0.	3584.	0.	0.	3567.	4400.	0.	0.	0.	.81	61.	29.3	D	21.2	3.6
23	2	3040.	92.	432.	3676.	92.	430.	3659.	4100.	0.	0.	0.	.89	58.	31.4	D	22.2	2.7
24	2	2190.	0.	0.	3244.	0.	0.	3229.	4200.	0.	0.	0.	.77	64.	25.3	C	19.7	5.4
25	3	2400.	96.	3340.	3340.	96.	3325.	3325.	6150.	0.	0.	0.	.54	65.	17.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	27.6		19.1	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	197. VEH-HRS	233. PASS-HRS	377. VEH-HRS	445. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	197. VEH-HRS	233. PASS-HRS	377. VEH-HRS	445. PASS-HRS
TOTAL TRAV DISTANCE =	11492. VEH-MI.	13561. PASS-MI.	22219. VEH-MI.	26218. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		59. MPH.	
AVERAGE DENSITY =	28. VPMPL		26. VPMPL	
TOTAL FUEL =	602. GALLONS		1166. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		83. KILOGRAMS	

QUEUE CLEAR SECTION 14 T2 =0.224

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2284.	0.	2284.	2284.	0.	2284.	3850.	0.	0.	0.	.59	50.	22.8	C	17.4	2.3
2	2	2070.	536.	0.	2820.	536.	0.	2820.	3834.	16.	0.	0.	.74	50.	28.2	D	15.9	2.3
3	3	2300.	1784.	400.	4604.	1784.	400.	4604.	5837.	263.	0.	0.	.79	55.	27.9	D	14.0	2.4
4	3	1020.	0.	0.	4204.	0.	0.	4204.	6100.	0.	0.	0.	.69	62.	22.6	C	19.9	4.8
5	3	710.	148.	0.	4352.	148.	0.	4352.	6100.	0.	0.	0.	.71	62.	23.4	C	16.1	4.4
6	3	3820.	328.	1052.	4680.	328.	1052.	4680.	6124.	26.	0.	0.	.76	62.	25.3	C	17.3	4.5
7	2	1220.	0.	0.	3628.	0.	0.	3628.	4400.	0.	0.	0.	.82	60.	30.0	D	18.8	3.5
8	3	4810.	576.	720.	4204.	576.	720.	4204.	6100.	0.	0.	0.	.69	62.	22.6	C	20.6	4.4
9	2	1370.	0.	0.	3484.	0.	0.	3484.	4000.	0.	0.	0.	.87	59.	29.5	D	25.2	3.0
10	2	660.	372.	0.	3856.	372.	0.	3856.	4369.	31.	0.	0.	.88	59.	32.9	D	25.4	2.8
11	3	790.	964.	884.	4820.	964.	884.	4820.	5355.	745.	0.	0.	.90	58.	27.8	D	33.2	2.7
12	2	1460.	0.	0.	3936.	0.	0.	3936.	4100.	0.	0.	0.	.96	54.	36.1	E	23.3	2.0
13	3	1400.	564.	0.	4500.	564.	0.	4500.	6012.	88.	0.	0.	.75	62.	24.2	C	13.6	4.4
14	3	2600.	0.	704.	4500.	0.	704.	4531.	6012.	88.	0.	-31.	.75	57.	26.4	D	20.4	4.4
15	2	2010.	0.	0.	3796.	0.	0.	3827.	3900.	0.	0.	0.	.98	53.	36.1	E	16.7	2.0
16	3	6120.	524.	728.	4320.	524.	733.	4351.	6100.	0.	0.	0.	.71	62.	23.4	C	18.2	4.4
17	2	1240.	0.	0.	3592.	0.	0.	3617.	4300.	0.	0.	0.	.84	60.	30.1	D	19.0	3.2
18	3	930.	520.	0.	4112.	520.	0.	4137.	6098.	2.	0.	0.	.68	62.	22.2	C	20.6	4.4
19	3	5330.	168.	572.	4280.	168.	575.	4305.	6062.	38.	0.	0.	.71	62.	23.1	C	20.6	4.4
20	2	2830.	0.	0.	3708.	0.	0.	3730.	3800.	0.	0.	0.	.98	53.	35.4	E	23.7	2.0
21	3	1660.	484.	656.	4192.	484.	659.	4214.	5855.	245.	0.	0.	.72	61.	23.0	C	21.1	3.8
22	2	2270.	0.	0.	3536.	0.	0.	3555.	4400.	0.	0.	0.	.81	61.	29.2	D	21.2	3.7
23	2	3040.	100.	388.	3636.	100.	390.	3655.	4100.	0.	0.	0.	.89	58.	31.4	D	22.1	2.8
24	2	2190.	0.	0.	3248.	0.	0.	3265.	4200.	0.	0.	0.	.78	64.	25.6	C	19.8	5.3
25	3	2400.	88.	3336.	3336.	88.	3353.	3353.	6150.	0.	0.	0.	.55	65.	17.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES						MAX(V/C) = 0.98		LOWEST LOS = E		AVG = 59.		26.1		19.1	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	188. VEH-HRS	221. PASS-HRS	565. VEH-HRS	667. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	188. VEH-HRS	221. PASS-HRS	565. VEH-HRS	667. PASS-HRS
TOTAL TRAV DISTANCE =	11038. VEH-MI.	13025. PASS-MI.	33257. VEH-MI.	39243. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	26. VPMPL		26. VPMPL	
TOTAL FUEL =	579. GALLONS		1745. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		124. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2848.	0.	2848.	2848.	0.	2848.	3850.	0.	0.	0.	.74	50.	28.5	D	17.4	2.3
2	2	2070.	468.	0.	3316.	468.	0.	3316.	3836.	14.	0.	0.	.86	50.	33.2	D	15.9	2.3
3	3	2300.	1640.	352.	4956.	1640.	352.	4956.	5848.	252.	0.	0.	.85	55.	30.0	D	14.0	2.4
4	3	1020.	0.	0.	4604.	0.	0.	4604.	6100.	0.	0.	0.	.75	62.	24.8	C	19.9	4.8
5	3	710.	140.	0.	4744.	140.	0.	4744.	6100.	0.	0.	0.	.78	61.	25.8	C	16.3	4.0
6	3	3820.	276.	1108.	5020.	276.	1108.	5020.	6118.	32.	0.	0.	.82	61.	27.6	D	17.7	4.0
7	2	1220.	0.	0.	3912.	0.	0.	3912.	4400.	0.	0.	0.	.89	58.	33.5	D	19.5	2.8
8	3	4810.	548.	808.	4460.	548.	808.	4460.	6100.	0.	0.	0.	.73	62.	24.0	C	20.6	4.4
9	2	1370.	0.	0.	3652.	0.	0.	3652.	4000.	0.	0.	0.	.91	57.	31.9	D	26.0	2.5
10	2	660.	280.	0.	3932.	280.	0.	3932.	4376.	24.	0.	0.	.90	58.	34.0	D	25.7	2.7
11	3	790.	996.	924.	4928.	996.	924.	4928.	5336.	764.	0.	0.	.92	57.	29.0	D	34.1	2.4
12	2	1460.	0.	0.	4004.	0.	0.	4004.	4100.	0.	0.	0.	.98	53.	37.5	E	23.5	2.0
13	3	1400.	596.	0.	4600.	596.	0.	4600.	6020.	80.	0.	0.	.76	62.	24.7	C	13.6	4.4
14	3	2600.	0.	628.	4600.	0.	628.	4528.	6020.	80.	* 480.	72.	.75	50.	30.4	F	20.2	4.4
15	2	2010.	0.	0.	3972.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	612.	660.	4584.	612.	650.	4512.	6100.	0.	0.	0.	.74	62.	24.3	C	18.2	4.4
17	2	1240.	0.	0.	3924.	0.	0.	3862.	4300.	0.	0.	0.	.90	58.	33.3	D	19.6	2.7
18	3	930.	456.	0.	4380.	456.	0.	4318.	6098.	2.	0.	0.	.71	62.	23.2	C	20.6	4.4
19	3	5330.	136.	560.	4516.	136.	552.	4352.	6064.	36.	* 613.	102.	.72	53.	27.6	F	20.3	4.4
20	2	2830.	0.	0.	3956.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	524.	712.	4480.	524.	687.	4324.	5792.	308.	0.	0.	.75	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	3768.	0.	0.	3637.	4400.	0.	0.	0.	.83	60.	30.1	D	21.4	3.4
23	2	3040.	340.	396.	4108.	340.	383.	3977.	4100.	0.	0.	0.	.97	54.	36.9	E	23.4	2.0
24	2	2190.	0.	0.	3712.	0.	0.	3593.	4200.	0.	0.	0.	.86	61.	29.3	D	20.9	3.9
25	3	2400.	120.	3832.	3832.	120.	3713.	3713.	6150.	0.	0.	0.	.60	65.	19.0	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 57.	28.9		19.2	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	208. VEH-HRS	245. PASS-HRS	773. VEH-HRS	912. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	208. VEH-HRS	245. PASS-HRS	773. VEH-HRS	912. PASS-HRS
TOTAL TRAV DISTANCE =	11762. VEH-MI.	13879. PASS-MI.	45019. VEH-MI.	53122. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		58. MPH.	
AVERAGE DENSITY =	29. VPMPL		27. VPMPL	
TOTAL FUEL =	613. GALLONS		2358. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		166. KILOGRAMS	

QUEUE CLEAR SECTION 14 T2 =0.233

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2348.	0.	2348.	2348.	0.	2348.	3850.	0.	0.	0.	.61	50.	23.5	C	17.4	2.3
2	2	2070.	452.	0.	2800.	452.	0.	2800.	3833.	17.	0.	0.	.73	50.	28.0	D	15.9	2.3
3	3	2300.	1468.	500.	4268.	1468.	500.	4268.	5753.	347.	0.	0.	.74	55.	25.9	C	14.0	2.4
4	3	1020.	0.	0.	3768.	0.	0.	3768.	6100.	0.	0.	0.	.62	62.	20.3	C	19.9	4.8
5	3	710.	80.	0.	3848.	80.	0.	3848.	6100.	0.	0.	0.	.63	62.	20.7	C	16.1	4.4
6	3	3820.	288.	1108.	4136.	288.	1108.	4136.	6129.	21.	0.	0.	.67	62.	22.2	C	17.1	4.8
7	2	1220.	0.	0.	3028.	0.	0.	3028.	4400.	0.	0.	0.	.69	62.	24.4	C	18.2	4.4
8	3	4810.	508.	756.	3536.	508.	756.	3536.	6100.	0.	0.	0.	.58	62.	19.0	C	20.6	4.4
9	2	1370.	0.	0.	2780.	0.	0.	2780.	4000.	0.	0.	0.	.69	62.	22.4	C	23.6	4.4
10	2	660.	348.	0.	3128.	348.	0.	3128.	4371.	29.	0.	0.	.72	62.	25.3	C	23.6	4.3
11	3	790.	1088.	776.	4216.	1088.	776.	4216.	5489.	611.	0.	0.	.77	62.	22.7	C	30.0	4.4
12	2	1460.	0.	0.	3440.	0.	0.	3440.	4100.	0.	0.	0.	.84	60.	28.6	D	21.6	3.2
13	3	1400.	564.	0.	4004.	564.	0.	4004.	6044.	56.	0.	0.	.66	62.	21.5	C	13.6	4.4
14	3	2600.	0.	396.	4004.	0.	396.	4100.	6044.	56.	0.	-96.	.68	47.	29.2	D	19.9	4.5
15	2	2010.	0.	0.	3608.	0.	0.	3704.	3900.	0.	0.	0.	.95	55.	33.6	D	16.4	2.0
16	3	6120.	580.	520.	4188.	580.	532.	4284.	6100.	0.	0.	0.	.70	62.	23.0	C	18.2	4.4
17	2	1240.	0.	0.	3668.	0.	0.	3752.	4300.	0.	0.	0.	.87	59.	31.8	D	19.3	2.9
18	3	930.	368.	0.	4036.	368.	0.	4120.	6099.	1.	0.	0.	.68	62.	22.2	C	20.6	4.4
19	3	5330.	108.	496.	4144.	108.	506.	4306.	6074.	26. *	161.	-78.	.71	50.	28.7	F	20.1	4.4
20	2	2830.	0.	0.	3648.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	508.	672.	4156.	508.	696.	4308.	5824.	276.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3484.	0.	0.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	21.3	3.5
23	2	3040.	276.	392.	3760.	276.	405.	3888.	4100.	0.	0.	0.	.95	55.	35.2	E	23.1	2.0
24	2	2190.	0.	0.	3368.	0.	0.	3482.	4200.	0.	0.	0.	.83	62.	28.0	D	20.4	4.5
25	3	2400.	148.	3516.	3516.	148.	3630.	3630.	6150.	0.	0.	0.	.59	65.	18.6	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 57.	25.9		19.0	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	185. VEH-HRS	219. PASS-HRS	958. VEH-HRS	1130. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	185. VEH-HRS	219. PASS-HRS	958. VEH-HRS	1130. PASS-HRS
TOTAL TRAV DISTANCE =	10545. VEH-MI.	12443. PASS-MI.	55564. VEH-MI.	65566. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		58. MPH.	
AVERAGE DENSITY =	26. VPMPL		27. VPMPL	
TOTAL FUEL =	556. GALLONS		2914. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		206. KILOGRAMS	

QUEUE CLEAR SECTION 19 T2 =0.218

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2432.	0.	2432.	2432.	0.	2432.	3850.	0.	0.	0.	.63	50.	24.3	C	17.4	2.3
2	2	2070.	396.	0.	2828.	396.	0.	2828.	3836.	14.	0.	0.	.74	50.	28.3	D	15.9	2.3
3	3	2300.	1412.	432.	4240.	1412.	432.	4240.	5795.	305.	0.	0.	.73	55.	25.7	C	14.0	2.4
4	3	1020.	0.	0.	3808.	0.	0.	3808.	6100.	0.	0.	0.	.62	62.	20.5	C	19.9	4.8
5	3	710.	80.	0.	3888.	80.	0.	3888.	6100.	0.	0.	0.	.64	62.	20.9	C	16.1	4.4
6	3	3820.	224.	1112.	4112.	224.	1112.	4112.	6134.	16.	0.	0.	.67	62.	22.1	C	17.1	4.8
7	2	1220.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	18.2	4.4
8	3	4810.	536.	712.	3536.	536.	712.	3536.	6100.	0.	0.	0.	.58	62.	19.0	C	20.6	4.4
9	2	1370.	0.	0.	2824.	0.	0.	2824.	4000.	0.	0.	0.	.71	62.	22.8	C	23.6	4.4
10	2	660.	328.	0.	3152.	328.	0.	3152.	4375.	25.	0.	0.	.72	62.	25.5	C	23.6	4.3
11	3	790.	1040.	728.	4192.	1040.	728.	4192.	5521.	579.	0.	0.	.76	62.	22.5	C	30.0	4.4
12	2	1460.	0.	0.	3464.	0.	0.	3464.	4100.	0.	0.	0.	.84	60.	28.9	D	21.7	3.2
13	3	1400.	584.	0.	4048.	584.	0.	4048.	6048.	52.	0.	0.	.67	62.	21.8	C	13.6	4.4
14	3	2600.	0.	356.	4048.	0.	356.	4048.	6048.	52.	0.	0.	.67	62.	21.8	C	20.6	4.4
15	2	2010.	0.	0.	3692.	0.	0.	3692.	3900.	0.	0.	0.	.95	55.	33.4	D	16.3	2.1
16	3	6120.	508.	472.	4200.	508.	472.	4200.	6100.	0.	0.	0.	.69	62.	22.6	C	18.2	4.4
17	2	1240.	0.	0.	3728.	0.	0.	3728.	4300.	0.	0.	0.	.87	59.	31.5	D	19.3	3.0
18	3	930.	372.	0.	4100.	372.	0.	4100.	6099.	1.	0.	0.	.67	62.	22.0	C	20.6	4.4
19	3	5330.	116.	456.	4216.	116.	456.	4249.	6074.	26.	0.	-33.	.70	59.	23.9	C	20.5	4.4
20	2	2830.	0.	0.	3760.	0.	0.	3793.	3800.	0.	0.	0.	.99	51.	36.8	E	24.0	2.0
21	3	1660.	520.	604.	4280.	520.	609.	4313.	5831.	269.	0.	0.	.74	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	3676.	0.	0.	3704.	4400.	0.	0.	0.	.84	60.	30.9	D	21.6	3.2
23	2	3040.	148.	380.	3824.	148.	383.	3852.	4100.	0.	0.	0.	.94	56.	34.5	D	22.9	2.2
24	2	2190.	0.	0.	3444.	0.	0.	3469.	4200.	0.	0.	0.	.83	62.	27.8	D	20.4	4.6
25	3	2400.	136.	3580.	3580.	136.	3605.	3605.	6150.	0.	0.	0.	.59	65.	18.5	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.99		LOWEST LOS = E	AVG = 59.	25.1		19.0	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	179. VEH-HRS	212. PASS-HRS	1137. VEH-HRS	1342. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	179. VEH-HRS	212. PASS-HRS	1137. VEH-HRS	1342. PASS-HRS
TOTAL TRAV DISTANCE =	10547. VEH-MI.	12445. PASS-MI.	66111. VEH-MI.	78011. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		58. MPH.	
AVERAGE DENSITY =	25. VPMPL		26. VPMPL	
TOTAL FUEL =	554. GALLONS		3468. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		246. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2208.	0.	2208.	2208.	0.	2208.	3850.	0.	0.	0.	.57	50.	22.1	C	17.4	2.3
2	2	2070.	444.	0.	2652.	444.	0.	2652.	3835.	15.	0.	0.	.69	50.	26.5	D	15.9	2.3
3	3	2300.	1656.	500.	4308.	1656.	500.	4308.	5774.	326.	0.	0.	.75	55.	26.1	D	14.0	2.4
4	3	1020.	0.	0.	3808.	0.	0.	3808.	6100.	0.	0.	0.	.62	62.	20.5	C	19.9	4.8
5	3	710.	64.	0.	3872.	64.	0.	3872.	6100.	0.	0.	0.	.63	62.	20.8	C	16.1	4.4
6	3	3820.	236.	1168.	4108.	236.	1168.	4108.	6125.	25.	0.	0.	.67	62.	22.1	C	17.1	4.8
7	2	1220.	0.	0.	2940.	0.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	18.2	4.4
8	3	4810.	556.	756.	3496.	556.	756.	3496.	6100.	0.	0.	0.	.57	62.	18.8	C	20.6	4.4
9	2	1370.	0.	0.	2740.	0.	0.	2740.	4000.	0.	0.	0.	.69	62.	22.1	C	23.6	4.4
10	2	660.	324.	0.	3064.	324.	0.	3064.	4373.	27.	0.	0.	.70	62.	24.7	C	23.6	4.4
11	3	790.	1076.	760.	4140.	1076.	760.	4140.	5503.	597.	0.	0.	.75	62.	22.3	C	30.0	4.4
12	2	1460.	0.	0.	3380.	0.	0.	3380.	4100.	0.	0.	0.	.82	60.	27.9	D	21.4	3.5
13	3	1400.	596.	0.	3976.	596.	0.	3976.	6048.	52.	0.	0.	.66	62.	21.4	C	13.6	4.4
14	3	2600.	0.	352.	3976.	0.	352.	3976.	6048.	52.	0.	0.	.66	62.	21.4	C	20.6	4.4
15	2	2010.	0.	0.	3624.	0.	0.	3624.	3900.	0.	0.	0.	.93	56.	32.2	D	16.1	2.3
16	3	6120.	488.	492.	4112.	488.	492.	4112.	6100.	0.	0.	0.	.67	62.	22.1	C	18.2	4.4
17	2	1240.	0.	0.	3620.	0.	0.	3620.	4300.	0.	0.	0.	.84	60.	30.2	D	19.1	3.2
18	3	930.	420.	0.	4040.	420.	0.	4040.	6099.	1.	0.	0.	.66	62.	21.7	C	20.6	4.4
19	3	5330.	128.	492.	4168.	128.	492.	4168.	6071.	29.	0.	0.	.69	62.	22.4	C	20.6	4.4
20	2	2830.	0.	0.	3676.	0.	0.	3676.	3800.	0.	0.	0.	.97	54.	34.2	D	23.4	2.0
21	3	1660.	500.	636.	4176.	500.	636.	4176.	5846.	254.	0.	0.	.71	61.	22.8	C	21.1	3.8
22	2	2270.	0.	0.	3540.	0.	0.	3540.	4400.	0.	0.	0.	.80	61.	29.1	D	21.1	3.7
23	2	3040.	124.	364.	3664.	124.	364.	3664.	4100.	0.	0.	0.	.89	58.	31.5	D	22.2	2.7
24	2	2190.	0.	0.	3300.	0.	0.	3300.	4200.	0.	0.	0.	.79	63.	26.0	C	19.9	5.2
25	3	2400.	112.	3412.	3412.	112.	3412.	3412.	6150.	0.	0.	0.	.55	65.	17.5	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.97		LOWEST LOS = D	AVG = 60.	24.1		18.9	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	172. VEH-HRS	203. PASS-HRS	1310. VEH-HRS	1545. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	172. VEH-HRS	203. PASS-HRS	1310. VEH-HRS	1545. PASS-HRS
TOTAL TRAV DISTANCE =	10263. VEH-MI.	12111. PASS-MI.	76374. VEH-MI.	90122. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	24. VPMPL		26. VPMPL	
TOTAL FUEL =	542. GALLONS		4010. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		286. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3216.	0.	3216.	3216.	0.	3216.	3850.	0.	0.	0.	.84	50.	32.2	D	17.4	2.3
2	2	2070.	376.	0.	3592.	376.	0.	3592.	3829.	21.	0.	0.	.94	50.	35.9	E	15.9	2.3
3	3	2300.	1268.	552.	4860.	1268.	552.	4860.	5669.	431.	0.	0.	.86	55.	29.5	D	14.0	2.4
4	3	1020.	0.	0.	4308.	0.	0.	4308.	6100.	0.	0.	0.	.71	62.	23.2	C	19.9	4.8
5	3	710.	52.	0.	4360.	52.	0.	4360.	6100.	0.	0.	0.	.71	62.	23.4	C	16.1	4.4
6	3	3820.	184.	1244.	4544.	184.	1244.	4544.	6124.	26.	0.	0.	.74	62.	24.4	C	17.1	4.8
7	2	1220.	0.	0.	3300.	0.	0.	3300.	4400.	0.	0.	0.	.75	62.	26.7	D	18.3	4.2
8	3	4810.	484.	812.	3784.	484.	812.	3784.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	2972.	0.	0.	2972.	4000.	0.	0.	0.	.74	62.	24.0	C	23.6	4.4
10	2	660.	328.	0.	3300.	328.	0.	3300.	4373.	27.	0.	0.	.75	62.	26.8	D	23.8	4.2
11	3	790.	1140.	796.	4440.	1140.	796.	4440.	5475.	625.	0.	0.	.81	62.	23.9	C	30.0	4.4
12	2	1460.	0.	0.	3644.	0.	0.	3644.	4100.	0.	0.	0.	.89	58.	31.2	D	22.1	2.8
13	3	1400.	648.	0.	4292.	648.	0.	4292.	6036.	64.	0.	0.	.71	62.	23.1	C	13.6	4.4
14	3	2600.	0.	428.	4292.	0.	428.	4292.	6036.	64.	0.	0.	.71	62.	23.1	C	20.6	4.4
15	2	2010.	0.	0.	3864.	0.	0.	3864.	3900.	0.	0.	0.	.99	52.	37.0	E	16.9	2.0
16	3	6120.	552.	576.	4416.	552.	576.	4416.	6100.	0.	0.	0.	.72	62.	23.7	C	18.2	4.4
17	2	1240.	0.	0.	3840.	0.	0.	3840.	4300.	0.	0.	0.	.89	58.	33.0	D	19.6	2.7
18	3	930.	468.	0.	4308.	468.	0.	4308.	6098.	2.	0.	0.	.71	62.	23.2	C	20.6	4.4
19	3	5330.	172.	608.	4480.	172.	608.	4408.	6059.	41. *	444.	72.	.73	55.	26.6	F	20.4	4.4
20	2	2830.	0.	0.	3872.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	488.	680.	4360.	488.	669.	4288.	5832.	268.	0.	0.	.74	61.	23.4	C	21.1	3.8
22	2	2270.	0.	0.	3680.	0.	0.	3619.	4400.	0.	0.	0.	.82	61.	29.9	D	21.3	3.5
23	2	3040.	116.	396.	3796.	116.	390.	3735.	4100.	0.	0.	0.	.91	57.	32.6	D	22.4	2.5
24	2	2190.	0.	0.	3400.	0.	0.	3346.	4200.	0.	0.	0.	.80	63.	26.5	D	20.0	5.1
25	3	2400.	136.	3536.	3536.	136.	3482.	3482.	6150.	0.	0.	0.	.57	65.	17.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	27.3		18.9	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	195. VEH-HRS	230. PASS-HRS	1504. VEH-HRS	1775. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	195. VEH-HRS	230. PASS-HRS	1504. VEH-HRS	1775. PASS-HRS
TOTAL TRAV DISTANCE =	11304. VEH-MI.	13339. PASS-MI.	87678. VEH-MI.	103460. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		58. MPH.	
AVERAGE DENSITY =	27. VPMPL		26. VPMPL	
TOTAL FUEL =	598. GALLONS		4608. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		329. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2952.	0.	2952.	2952.	0.	2952.	3850.	0.	0.	0.	.77	50.	29.5	D	17.4	2.3
2	2	2070.	372.	0.	3324.	372.	0.	3324.	3831.	19.	0.	0.	.87	50.	33.2	D	15.9	2.3
3	3	2300.	1240.	536.	4564.	1240.	536.	4564.	5686.	414.	0.	0.	.80	55.	27.7	D	14.0	2.4
4	3	1020.	0.	0.	4028.	0.	0.	4028.	6100.	0.	0.	0.	.66	62.	21.7	C	19.9	4.8
5	3	710.	84.	0.	4112.	84.	0.	4112.	6100.	0.	0.	0.	.67	62.	22.1	C	16.1	4.4
6	3	3820.	184.	1192.	4296.	184.	1192.	4296.	6130.	20.	0.	0.	.70	62.	23.1	C	17.1	4.8
7	2	1220.	0.	0.	3104.	0.	0.	3104.	4400.	0.	0.	0.	.71	62.	25.1	C	18.2	4.3
8	3	4810.	448.	804.	3552.	448.	804.	3552.	6100.	0.	0.	0.	.58	62.	19.1	C	20.6	4.4
9	2	1370.	0.	0.	2748.	0.	0.	2748.	4000.	0.	0.	0.	.69	62.	22.2	C	23.6	4.4
10	2	660.	280.	0.	3028.	280.	0.	3028.	4378.	22.	0.	0.	.69	62.	24.4	C	23.6	4.4
11	3	790.	1076.	700.	4104.	1076.	700.	4104.	5558.	542.	0.	0.	.74	62.	22.1	C	30.0	4.4
12	2	1460.	0.	0.	3404.	0.	0.	3404.	4100.	0.	0.	0.	.83	60.	28.2	D	21.4	3.4
13	3	1400.	684.	0.	4088.	684.	0.	4088.	6028.	72.	0.	0.	.68	62.	22.0	C	13.6	4.4
14	3	2600.	0.	420.	4088.	0.	420.	4088.	6028.	72.	0.	0.	.68	62.	22.0	C	20.6	4.4
15	2	2010.	0.	0.	3668.	0.	0.	3668.	3900.	0.	0.	0.	.94	56.	32.9	D	16.3	2.2
16	3	6120.	692.	584.	4360.	692.	584.	4360.	6100.	0.	0.	0.	.71	62.	23.4	C	18.2	4.4
17	2	1240.	0.	0.	3776.	0.	0.	3776.	4300.	0.	0.	0.	.88	59.	32.1	D	19.4	2.9
18	3	930.	496.	0.	4272.	496.	0.	4272.	6098.	2.	0.	0.	.70	62.	23.0	C	20.6	4.4
19	3	5330.	212.	624.	4484.	212.	624.	4424.	6059.	41. *	816.	60.	.73	46.	32.1	F	20.0	4.5
20	2	2830.	0.	0.	3860.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	460.	668.	4320.	460.	659.	4260.	5867.	233.	0.	0.	.73	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	3652.	0.	0.	3601.	4400.	0.	0.	0.	.82	61.	29.7	D	21.3	3.5
23	2	3040.	140.	368.	3792.	140.	363.	3741.	4100.	0.	0.	0.	.91	57.	32.7	D	22.4	2.5
24	2	2190.	0.	0.	3424.	0.	0.	3378.	4200.	0.	0.	0.	.80	63.	26.8	D	20.1	4.9
25	3	2400.	136.	3560.	3560.	136.	3514.	3514.	6150.	0.	0.	0.	.57	65.	18.0	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 57.		26.7	18.9	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	191. VEH-HRS	226. PASS-HRS	1695. VEH-HRS	2001. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	191. VEH-HRS	226. PASS-HRS	1695. VEH-HRS	2001. PASS-HRS
TOTAL TRAV DISTANCE =	10909. VEH-MI.	12872. PASS-MI.	98587. VEH-MI.	116333. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		58. MPH.	
AVERAGE DENSITY =	27. VPMPL		26. VPMPL	
TOTAL FUEL =	578. GALLONS		5186. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		370. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3216.	0.	3216.	3216.	0.	3216.	3850.	0.	0.	0.	.84	50.	32.2	D	17.4	2.3
2	2	2070.	320.	0.	3536.	320.	0.	3536.	3833.	17.	0.	0.	.92	50.	35.4	E	15.9	2.3
3	3	2300.	1232.	556.	4768.	1232.	556.	4768.	5669.	431.	0.	0.	.84	55.	28.9	D	14.0	2.4
4	3	1020.	0.	0.	4212.	0.	0.	4212.	6100.	0.	0.	0.	.69	62.	22.6	C	19.9	4.8
5	3	710.	68.	0.	4280.	68.	0.	4280.	6100.	0.	0.	0.	.70	62.	23.0	C	16.1	4.4
6	3	3820.	172.	1196.	4452.	172.	1196.	4452.	6131.	19.	0.	0.	.73	62.	23.9	C	17.1	4.8
7	2	1220.	0.	0.	3256.	0.	0.	3256.	4400.	0.	0.	0.	.74	62.	26.4	D	18.3	4.2
8	3	4810.	356.	800.	3612.	356.	800.	3612.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
9	2	1370.	0.	0.	2812.	0.	0.	2812.	4000.	0.	0.	0.	.70	62.	22.7	C	23.6	4.4
10	2	660.	276.	0.	3088.	276.	0.	3088.	4378.	22.	0.	0.	.71	62.	24.9	C	23.6	4.3
11	3	790.	1060.	704.	4148.	1060.	704.	4148.	5550.	550.	0.	0.	.75	62.	22.3	C	30.0	4.4
12	2	1460.	0.	0.	3444.	0.	0.	3444.	4100.	0.	0.	0.	.84	60.	28.7	D	21.6	3.2
13	3	1400.	644.	0.	4088.	644.	0.	4088.	6032.	68.	0.	0.	.68	62.	22.0	C	13.6	4.4
14	3	2600.	0.	424.	4088.	0.	424.	4088.	6032.	68.	0.	0.	.68	62.	22.0	C	20.6	4.4
15	2	2010.	0.	0.	3664.	0.	0.	3664.	3900.	0.	0.	0.	.94	56.	32.9	D	16.2	2.2
16	3	6120.	756.	540.	4420.	756.	540.	4420.	6100.	0.	0.	0.	.72	62.	23.8	C	18.2	4.4
17	2	1240.	0.	0.	3880.	0.	0.	3880.	4300.	0.	0.	0.	.90	58.	33.6	D	19.7	2.6
18	3	930.	508.	0.	4388.	508.	0.	4388.	6097.	3.	0.	0.	.72	62.	23.6	C	20.6	4.4
19	3	5330.	216.	628.	4604.	216.	628.	4428.	6057.	43. *	1921.	176.	.73	36.	41.5	F	19.4	4.6
20	2	2830.	0.	0.	3976.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	440.	688.	4416.	440.	661.	4240.	5877.	223.	0.	0.	.72	61.	23.2	C	21.1	3.8
22	2	2270.	0.	0.	3728.	0.	0.	3579.	4400.	0.	0.	0.	.81	61.	29.5	D	21.2	3.6
23	2	3040.	160.	372.	3888.	160.	358.	3739.	4100.	0.	0.	0.	.91	57.	32.7	D	22.4	2.5
24	2	2190.	0.	0.	3516.	0.	0.	3382.	4200.	0.	0.	0.	.81	63.	26.8	D	20.1	4.9
25	3	2400.	124.	3640.	3640.	124.	3506.	3506.	6150.	0.	0.	0.	.57	65.	18.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 55.	28.1		18.8	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	203. VEH-HRS	240. PASS-HRS	1899. VEH-HRS	2240. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	203. VEH-HRS	240. PASS-HRS	1899. VEH-HRS	2240. PASS-HRS
TOTAL TRAV DISTANCE =	11150. VEH-MI.	13157. PASS-MI.	109737. VEH-MI.	129490. PASS-MI.
AVERAGE SYSTEM SPEED =	55. MPH.		58. MPH.	
AVERAGE DENSITY =	28. VPMPL		26. VPMPL	
TOTAL FUEL =	594. GALLONS		5780. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		413. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2816.	0.	2816.	2816.	0.	2816.	3850.	0.	0.	0.	.73	50.	28.2	D	17.4	2.3
2	2	2070.	392.	0.	3208.	392.	0.	3208.	3830.	20.	0.	0.	.84	50.	32.1	D	15.9	2.3
3	3	2300.	1236.	536.	4444.	1236.	536.	4444.	5709.	391.	0.	0.	.78	55.	26.9	D	14.0	2.4
4	3	1020.	0.	0.	3908.	0.	0.	3908.	6100.	0.	0.	0.	.64	62.	21.0	C	19.9	4.8
5	3	710.	76.	0.	3984.	76.	0.	3984.	6100.	0.	0.	0.	.65	62.	21.4	C	16.1	4.4
6	3	3820.	172.	1148.	4156.	172.	1148.	4156.	6138.	12.	0.	0.	.68	62.	22.3	C	17.1	4.8
7	2	1220.	0.	0.	3008.	0.	0.	3008.	4400.	0.	0.	0.	.68	62.	24.3	C	18.2	4.4
8	3	4810.	392.	756.	3400.	392.	756.	3400.	6100.	0.	0.	0.	.56	62.	18.3	C	20.6	4.4
9	2	1370.	0.	0.	2644.	0.	0.	2644.	4000.	0.	0.	0.	.66	62.	21.3	C	23.6	4.4
10	2	660.	256.	0.	2900.	256.	0.	2900.	4380.	20.	0.	0.	.66	62.	23.4	C	23.6	4.4
11	3	790.	1068.	680.	3968.	1068.	680.	3968.	5580.	520.	0.	0.	.71	62.	21.3	C	30.0	4.4
12	2	1460.	0.	0.	3288.	0.	0.	3288.	4100.	0.	0.	0.	.80	61.	27.0	D	21.1	3.8
13	3	1400.	652.	0.	3940.	652.	0.	3940.	6036.	64.	0.	0.	.65	62.	21.2	C	13.6	4.4
14	3	2600.	0.	392.	3940.	0.	392.	3940.	6036.	64.	0.	0.	.65	62.	21.2	C	20.6	4.4
15	2	2010.	0.	0.	3548.	0.	0.	3548.	3900.	0.	0.	0.	.91	57.	30.9	D	15.9	2.6
16	3	6120.	720.	480.	4268.	720.	480.	4268.	6100.	0.	0.	0.	.70	62.	22.9	C	18.2	4.4
17	2	1240.	0.	0.	3788.	0.	0.	3788.	4300.	0.	0.	0.	.88	59.	32.3	D	19.4	2.9
18	3	930.	564.	0.	4352.	564.	0.	4352.	6097.	3.	0.	0.	.71	62.	23.4	C	20.6	4.4
19	3	5330.	204.	568.	4556.	204.	568.	4368.	6054.	46. *	3072.	188.	.72	26.	56.9	F	18.4	4.8
20	2	2830.	0.	0.	3988.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	480.	668.	4468.	480.	640.	4280.	5855.	245.	0.	0.	.73	61.	23.4	C	21.1	3.8
22	2	2270.	0.	0.	3800.	0.	0.	3640.	4400.	0.	0.	0.	.83	60.	30.1	D	21.4	3.4
23	2	3040.	136.	368.	3936.	136.	353.	3776.	4100.	0.	0.	0.	.92	57.	33.2	D	22.6	2.4
24	2	2190.	0.	0.	3568.	0.	0.	3423.	4200.	0.	0.	0.	.81	63.	27.3	D	20.2	4.8
25	3	2400.	80.	3648.	3648.	80.	3503.	3503.	6150.	0.	0.	0.	.57	65.	18.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 52.	28.3		18.7	3.9

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 11 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	207. VEH-HRS	244. PASS-HRS	2105. VEH-HRS	2484. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	207. VEH-HRS	244. PASS-HRS	2105. VEH-HRS	2484. PASS-HRS
TOTAL TRAV DISTANCE =	10694. VEH-MI.	12619. PASS-MI.	120432. VEH-MI.	142109. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		57. MPH.	
AVERAGE DENSITY =	28. VPMPL		27. VPMPL	
TOTAL FUEL =	571. GALLONS		6351. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		454. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3068.	0.	3068.	3068.	0.	3068.	3850.	0.	0.	0.	.80	50.	30.7	D	17.4	2.3
2	2	2070.	320.	0.	3388.	320.	0.	3388.	3832.	18.	0.	0.	.88	50.	33.9	D	15.9	2.3
3	3	2300.	1072.	552.	4460.	1072.	552.	4460.	5702.	398.	0.	0.	.78	55.	27.0	D	14.0	2.4
4	3	1020.	0.	0.	3908.	0.	0.	3908.	6100.	0.	0.	0.	.64	62.	21.0	C	19.9	4.8
5	3	710.	76.	0.	3984.	76.	0.	3984.	6100.	0.	0.	0.	.65	62.	21.4	C	16.1	4.4
6	3	3820.	176.	1204.	4160.	176.	1204.	4160.	6131.	19.	0.	0.	.68	62.	22.4	C	17.1	4.8
7	2	1220.	0.	0.	2956.	0.	0.	2956.	4400.	0.	0.	0.	.67	62.	23.8	C	18.2	4.4
8	3	4810.	476.	780.	3432.	476.	780.	3432.	6100.	0.	0.	0.	.56	62.	18.5	C	20.6	4.4
9	2	1370.	0.	0.	2652.	0.	0.	2652.	4000.	0.	0.	0.	.66	62.	21.4	C	23.6	4.4
10	2	660.	216.	0.	2868.	216.	0.	2868.	4382.	18.	0.	0.	.65	62.	23.1	C	23.6	4.4
11	3	790.	1076.	736.	3944.	1076.	736.	3944.	5542.	558.	0.	0.	.71	62.	21.2	C	30.0	4.4
12	2	1460.	0.	0.	3208.	0.	0.	3208.	4100.	0.	0.	0.	.78	61.	26.2	D	20.9	3.9
13	3	1400.	656.	0.	3864.	656.	0.	3864.	6024.	76.	0.	0.	.64	62.	20.8	C	13.6	4.4
14	3	2600.	0.	460.	3864.	0.	460.	3864.	6024.	76.	0.	0.	.64	62.	20.8	C	20.6	4.4
15	2	2010.	0.	0.	3404.	0.	0.	3404.	3900.	0.	0.	0.	.87	59.	28.9	D	15.5	2.9
16	3	6120.	696.	544.	4100.	696.	544.	4100.	6100.	0.	0.	0.	.67	62.	22.0	C	18.2	4.4
17	2	1240.	0.	0.	3556.	0.	0.	3556.	4300.	0.	0.	0.	.83	60.	29.4	D	18.9	3.4
18	3	930.	580.	0.	4136.	580.	0.	4136.	6098.	2.	0.	0.	.68	62.	22.2	C	20.6	4.4
19	3	5330.	200.	604.	4336.	200.	604.	4404.	6056.	44. *	2657.	-68.	.73	23.	62.5	F	18.1	4.8
20	2	2830.	0.	0.	3732.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	516.	756.	4248.	516.	768.	4316.	5782.	318.	0.	0.	.75	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	3492.	0.	0.	3548.	4400.	0.	0.	0.	.81	61.	29.1	D	21.2	3.7
23	2	3040.	172.	352.	3664.	172.	357.	3720.	4100.	0.	0.	0.	.91	57.	32.4	D	22.4	2.6
24	2	2190.	0.	0.	3312.	0.	0.	3363.	4200.	0.	0.	0.	.80	63.	26.6	D	20.0	5.0
25	3	2400.	128.	3440.	3440.	128.	3491.	3491.	6150.	0.	0.	0.	.57	65.	17.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 51.	28.8		18.6	3.9

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 12 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	209. VEH-HRS	247. PASS-HRS	2315. VEH-HRS	2731. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	209. VEH-HRS	247. PASS-HRS	2315. VEH-HRS	2731. PASS-HRS
TOTAL TRAV DISTANCE =	10640. VEH-MI.	12555. PASS-MI.	131072. VEH-MI.	154665. PASS-MI.
AVERAGE SYSTEM SPEED =	51. MPH.		57. MPH.	
AVERAGE DENSITY =	29. VPMPL		27. VPMPL	
TOTAL FUEL =	571. GALLONS		6922. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		496. KILOGRAMS	

QUEUE CLEAR SECTION 19 T2 =0.218

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2108.	0.	2108.	2108.	0.	2108.	3850.	0.	0.	0.	.55	50.	21.1	C	17.4	2.3
2	2	2070.	468.	0.	2576.	468.	0.	2576.	3835.	15.	0.	0.	.67	50.	25.8	C	15.9	2.3
3	3	2300.	1260.	464.	3836.	1260.	464.	3836.	5787.	313.	0.	0.	.66	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3372.	0.	0.	3372.	6100.	0.	0.	0.	.55	62.	18.1	C	19.9	4.8
5	3	710.	88.	0.	3460.	88.	0.	3460.	6100.	0.	0.	0.	.57	62.	18.6	C	16.1	4.4
6	3	3820.	184.	1200.	3644.	184.	1200.	3644.	6131.	19.	0.	0.	.59	62.	19.6	C	17.1	4.8
7	2	1220.	0.	0.	2444.	0.	0.	2444.	4400.	0.	0.	0.	.56	62.	19.7	C	18.2	4.4
8	3	4810.	404.	764.	2848.	404.	764.	2848.	6100.	0.	0.	0.	.47	62.	15.3	B	20.6	4.4
9	2	1370.	0.	0.	2084.	0.	0.	2084.	4000.	0.	0.	0.	.52	62.	16.8	B	23.6	4.4
10	2	660.	304.	0.	2388.	304.	0.	2388.	4371.	29.	0.	0.	.55	62.	19.3	C	23.6	4.4
11	3	790.	1096.	728.	3484.	1096.	728.	3484.	5565.	535.	0.	0.	.63	62.	18.7	C	30.0	4.4
12	2	1460.	0.	0.	2756.	0.	0.	2756.	4100.	0.	0.	0.	.67	62.	22.2	C	20.6	4.4
13	3	1400.	688.	0.	3444.	688.	0.	3444.	5996.	104.	0.	0.	.57	62.	18.5	C	13.6	4.4
14	3	2600.	0.	524.	3444.	0.	524.	3444.	5996.	104.	0.	0.	.57	62.	18.5	C	20.6	4.4
15	2	2010.	0.	0.	2920.	0.	0.	2920.	3900.	0.	0.	0.	.75	62.	23.5	C	14.7	4.4
16	3	6120.	708.	552.	3628.	708.	552.	3628.	6100.	0.	0.	0.	.59	62.	19.5	C	18.2	4.4
17	2	1240.	0.	0.	3076.	0.	0.	3076.	4300.	0.	0.	0.	.72	62.	24.8	C	18.2	4.4
18	3	930.	576.	0.	3652.	576.	0.	3652.	6100.	0.	0.	0.	.60	62.	19.6	C	20.6	4.4
19	3	5330.	224.	600.	3876.	224.	600.	4398.	6066.	34.	0.	-522.	.72	36.	40.9	E	19.4	4.6
20	2	2830.	0.	0.	3276.	0.	0.	3798.	3800.	0.	0.	0.	.99	51.	37.0	E	24.0	2.0
21	3	1660.	540.	744.	3816.	540.	846.	4338.	5795.	305.	0.	0.	.75	61.	23.7	C	21.1	3.8
22	2	2270.	0.	0.	3072.	0.	0.	3492.	4400.	0.	0.	0.	.79	61.	28.6	D	21.0	3.8
23	2	3040.	168.	364.	3240.	168.	411.	3660.	4100.	0.	0.	0.	.89	58.	31.5	D	22.2	2.7
24	2	2190.	0.	0.	2876.	0.	0.	3249.	4200.	0.	0.	0.	.77	64.	25.5	C	19.7	5.4
25	3	2400.	104.	2980.	2980.	104.	3353.	3353.	6150.	0.	0.	0.	.55	65.	17.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES						MAX(V/C) = 0.99		LOWEST LOS = E		AVG = 55.		23.7		18.8	4.0

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 13 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	169. VEH-HRS	200. PASS-HRS	2484. VEH-HRS	2931. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	169. VEH-HRS	200. PASS-HRS	2484. VEH-HRS	2931. PASS-HRS
TOTAL TRAV DISTANCE =	9357. VEH-MI.	11041. PASS-MI.	140429. VEH-MI.	165706. PASS-MI.
AVERAGE SYSTEM SPEED =	55. MPH.		57. MPH.	
AVERAGE DENSITY =	24. VPMPL		27. VPMPL	
TOTAL FUEL =	498. GALLONS		7421. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		533. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2584.	0.	2584.	2584.	0.	2584.	3850.	0.	0.	0.	.67	50.	25.8	C	17.4	2.3
2	2	2070.	324.	0.	2908.	324.	0.	2908.	3838.	12.	0.	0.	.76	50.	29.1	D	15.9	2.3
3	3	2300.	1168.	396.	4076.	1168.	396.	4076.	5830.	270.	0.	0.	.70	55.	24.7	C	14.0	2.4
4	3	1020.	0.	0.	3680.	0.	0.	3680.	6100.	0.	0.	0.	.60	62.	19.8	C	19.9	4.8
5	3	710.	84.	0.	3764.	84.	0.	3764.	6100.	0.	0.	0.	.62	62.	20.2	C	16.1	4.4
6	3	3820.	176.	1232.	3940.	176.	1232.	3940.	6126.	24.	0.	0.	.64	62.	21.2	C	17.1	4.8
7	2	1220.	0.	0.	2708.	0.	0.	2708.	4400.	0.	0.	0.	.62	62.	21.8	C	18.2	4.4
8	3	4810.	304.	796.	3012.	304.	796.	3012.	6100.	0.	0.	0.	.49	62.	16.2	B	20.6	4.4
9	2	1370.	0.	0.	2216.	0.	0.	2216.	4000.	0.	0.	0.	.55	62.	17.9	B	23.6	4.4
10	2	660.	376.	0.	2592.	376.	0.	2592.	4365.	35.	0.	0.	.59	62.	20.9	C	23.6	4.4
11	3	790.	1052.	728.	3644.	1052.	728.	3644.	5543.	557.	0.	0.	.66	62.	19.6	C	30.0	4.4
12	2	1460.	0.	0.	2916.	0.	0.	2916.	4100.	0.	0.	0.	.71	62.	23.5	C	20.6	4.4
13	3	1400.	660.	0.	3576.	660.	0.	3576.	6000.	100.	0.	0.	.60	62.	19.2	C	13.6	4.4
14	3	2600.	0.	540.	3576.	0.	540.	3576.	6000.	100.	0.	0.	.60	62.	19.2	C	20.6	4.4
15	2	2010.	0.	0.	3036.	0.	0.	3036.	3900.	0.	0.	0.	.78	62.	24.5	C	14.7	4.4
16	3	6120.	664.	560.	3700.	664.	560.	3700.	6100.	0.	0.	0.	.61	62.	19.9	C	18.2	4.4
17	2	1240.	0.	0.	3140.	0.	0.	3140.	4300.	0.	0.	0.	.73	62.	25.4	C	18.2	4.3
18	3	930.	556.	0.	3696.	556.	0.	3696.	6100.	0.	0.	0.	.61	62.	19.9	C	20.6	4.4
19	3	5330.	220.	620.	3916.	220.	620.	3916.	6066.	34.	0.	0.	.65	62.	21.1	C	20.6	4.4
20	2	2830.	0.	0.	3296.	0.	0.	3296.	3800.	0.	0.	0.	.87	59.	28.1	D	22.0	2.8
21	3	1660.	488.	748.	3784.	488.	748.	3784.	5826.	274.	0.	0.	.65	61.	20.7	C	21.1	3.8
22	2	2270.	0.	0.	3036.	0.	0.	3036.	4400.	0.	0.	0.	.69	62.	24.5	C	20.6	4.4
23	2	3040.	172.	380.	3208.	172.	380.	3208.	4100.	0.	0.	0.	.78	61.	26.2	D	20.9	3.9
24	2	2190.	0.	0.	2828.	0.	0.	2828.	4200.	0.	0.	0.	.67	65.	21.8	C	19.2	6.1
25	3	2400.	96.	2924.	2924.	96.	2924.	2924.	6150.	0.	0.	0.	.48	65.	15.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES						MAX(V/C) = 0.87		LOWEST LOS = D		AVG = 60.		22.0		18.6	4.1

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 14 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	158. VEH-HRS	186. PASS-HRS	2641. VEH-HRS	3117. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	158. VEH-HRS	186. PASS-HRS	2641. VEH-HRS	3117. PASS-HRS
TOTAL TRAV DISTANCE =	9448. VEH-MI.	11149. PASS-MI.	149877. VEH-MI.	176855. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	22. VPMPL		26. VPMPL	
TOTAL FUEL =	507. GALLONS		7928. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		572. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2368.	0.	2368.	2368.	0.	2368.	3850.	0.	0.	0.	.62	50.	23.7	C	17.4	2.3
2	2	2070.	300.	0.	2668.	300.	0.	2668.	3839.	11.	0.	0.	.69	50.	26.7	D	15.9	2.3
3	3	2300.	1164.	408.	3832.	1164.	408.	3832.	5832.	268.	0.	0.	.66	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3424.	0.	0.	3424.	6100.	0.	0.	0.	.56	62.	18.4	C	19.9	4.8
5	3	710.	84.	0.	3508.	84.	0.	3508.	6100.	0.	0.	0.	.58	62.	18.9	C	16.1	4.4
6	3	3820.	172.	1148.	3680.	172.	1148.	3680.	6138.	12.	0.	0.	.60	62.	19.8	C	17.1	4.8
7	2	1220.	0.	0.	2532.	0.	0.	2532.	4400.	0.	0.	0.	.58	62.	20.4	C	18.2	4.4
8	3	4810.	396.	768.	2928.	396.	768.	2928.	6100.	0.	0.	0.	.48	62.	15.7	B	20.6	4.4
9	2	1370.	0.	0.	2160.	0.	0.	2160.	4000.	0.	0.	0.	.54	62.	17.4	B	23.6	4.4
10	2	660.	412.	0.	2572.	412.	0.	2572.	4364.	36.	0.	0.	.59	62.	20.7	C	23.6	4.4
11	3	790.	996.	692.	3568.	996.	692.	3568.	5556.	544.	0.	0.	.64	62.	19.2	C	30.0	4.4
12	2	1460.	0.	0.	2876.	0.	0.	2876.	4100.	0.	0.	0.	.70	62.	23.2	C	20.6	4.4
13	3	1400.	672.	0.	3548.	672.	0.	3548.	6000.	100.	0.	0.	.59	62.	19.1	C	13.6	4.4
14	3	2600.	0.	528.	3548.	0.	528.	3548.	6000.	100.	0.	0.	.59	62.	19.1	C	20.6	4.4
15	2	2010.	0.	0.	3020.	0.	0.	3020.	3900.	0.	0.	0.	.77	62.	24.4	C	14.7	4.4
16	3	6120.	684.	520.	3704.	684.	520.	3704.	6100.	0.	0.	0.	.61	62.	19.9	C	18.2	4.4
17	2	1240.	0.	0.	3184.	0.	0.	3184.	4300.	0.	0.	0.	.74	62.	25.8	C	18.3	4.2
18	3	930.	560.	0.	3744.	560.	0.	3744.	6100.	0.	0.	0.	.61	62.	20.1	C	20.6	4.4
19	3	5330.	188.	596.	3932.	188.	596.	3932.	6064.	36.	0.	0.	.65	62.	21.1	C	20.6	4.4
20	2	2830.	0.	0.	3336.	0.	0.	3336.	3800.	0.	0.	0.	.88	58.	28.6	D	22.1	2.8
21	3	1660.	424.	696.	3760.	424.	696.	3760.	5911.	189.	0.	0.	.64	61.	20.5	C	21.1	3.8
22	2	2270.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	20.6	4.4
23	2	3040.	208.	380.	3272.	208.	380.	3272.	4100.	0.	0.	0.	.80	61.	26.8	D	21.1	3.8
24	2	2190.	0.	0.	2892.	0.	0.	2892.	4200.	0.	0.	0.	.69	65.	22.2	C	19.2	6.1
25	3	2400.	116.	3008.	3008.	116.	3008.	3008.	6150.	0.	0.	0.	.49	65.	15.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.88		LOWEST LOS = D	AVG = 60.	21.5		18.7	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	154. VEH-HRS	182. PASS-HRS	2795. VEH-HRS	3299. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	182. PASS-HRS	2795. VEH-HRS	3299. PASS-HRS
TOTAL TRAV DISTANCE =	9261. VEH-MI.	10928. PASS-MI.	159138. VEH-MI.	187783. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	21. VPMPL		26. VPMPL	
TOTAL FUEL =	496. GALLONS		8424. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		610. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3048.	0.	3048.	3048.	0.	3048.	3850.	0.	0.	0.	.79	50.	30.5	D	17.4	2.3
2	2	2070.	240.	0.	3288.	240.	0.	3288.	3841.	9.	0.	0.	.86	50.	32.9	D	15.9	2.3
3	3	2300.	1068.	388.	4356.	1068.	388.	4356.	5842.	258.	0.	0.	.75	55.	26.4	D	14.0	2.4
4	3	1020.	0.	0.	3968.	0.	0.	3968.	6100.	0.	0.	0.	.65	62.	21.3	C	19.9	4.8
5	3	710.	72.	0.	4040.	72.	0.	4040.	6100.	0.	0.	0.	.66	62.	21.7	C	16.1	4.4
6	3	3820.	148.	1204.	4188.	148.	1204.	4188.	6134.	16.	0.	0.	.68	62.	22.5	C	17.1	4.8
7	2	1220.	0.	0.	2984.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	18.2	4.4
8	3	4810.	280.	796.	3264.	280.	796.	3264.	6100.	0.	0.	0.	.54	62.	17.5	B	20.6	4.4
9	2	1370.	0.	0.	2468.	0.	0.	2468.	4000.	0.	0.	0.	.62	62.	19.9	C	23.6	4.4
10	2	660.	336.	0.	2804.	336.	0.	2804.	4369.	31.	0.	0.	.64	62.	22.6	C	23.6	4.4
11	3	790.	1016.	764.	3820.	1016.	764.	3820.	5503.	597.	0.	0.	.69	62.	20.5	C	30.0	4.4
12	2	1460.	0.	0.	3056.	0.	0.	3056.	4100.	0.	0.	0.	.75	62.	24.6	C	20.6	4.4
13	3	1400.	664.	0.	3720.	664.	0.	3720.	5992.	108.	0.	0.	.62	62.	20.0	C	13.6	4.4
14	3	2600.	0.	608.	3720.	0.	608.	3720.	5992.	108.	0.	0.	.62	62.	20.0	C	20.6	4.4
15	2	2010.	0.	0.	3112.	0.	0.	3112.	3900.	0.	0.	0.	.80	61.	25.5	C	15.0	3.8
16	3	6120.	600.	616.	3712.	600.	616.	3712.	6100.	0.	0.	0.	.61	62.	20.0	C	18.2	4.4
17	2	1240.	0.	0.	3096.	0.	0.	3096.	4300.	0.	0.	0.	.72	62.	25.0	C	18.2	4.3
18	3	930.	544.	0.	3640.	544.	0.	3640.	6100.	0.	0.	0.	.60	62.	19.6	C	20.6	4.4
19	3	5330.	196.	648.	3836.	196.	648.	3836.	6065.	35.	0.	0.	.63	62.	20.6	C	20.6	4.4
20	2	2830.	0.	0.	3188.	0.	0.	3188.	3800.	0.	0.	0.	.84	59.	26.8	D	21.8	3.0
21	3	1660.	444.	764.	3632.	444.	764.	3632.	5871.	229.	0.	0.	.62	61.	19.8	C	21.1	3.8
22	2	2270.	0.	0.	2868.	0.	0.	2868.	4400.	0.	0.	0.	.65	62.	23.1	C	20.6	4.4
23	2	3040.	160.	400.	3028.	160.	400.	3028.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
24	2	2190.	0.	0.	2628.	0.	0.	2628.	4200.	0.	0.	0.	.63	65.	20.2	C	19.2	6.1
25	3	2400.	96.	2724.	2724.	96.	2724.	2724.	6150.	0.	0.	0.	.44	65.	14.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.86		LOWEST LOS = D	AVG = 60.	22.8		18.6	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	163. VEH-HRS	192. PASS-HRS	2958. VEH-HRS	3491. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	163. VEH-HRS	192. PASS-HRS	2958. VEH-HRS	3491. PASS-HRS
TOTAL TRAV DISTANCE =	9734. VEH-MI.	11486. PASS-MI.	168872. VEH-MI.	199269. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	23. VPMPL		26. VPMPL	
TOTAL FUEL =	525. GALLONS		8948. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		650. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2540.	0.	2540.	2540.	0.	2540.	3850.	0.	0.	0.	.66	50.	25.4	C	17.4	2.3
2	2	2070.	276.	0.	2816.	276.	0.	2816.	3841.	9.	0.	0.	.73	50.	28.2	D	15.9	2.3
3	3	2300.	1300.	332.	4116.	1300.	332.	4116.	5873.	227.	0.	0.	.70	55.	24.9	C	14.0	2.4
4	3	1020.	0.	0.	3784.	0.	0.	3784.	6100.	0.	0.	0.	.62	62.	20.3	C	19.9	4.8
5	3	710.	108.	0.	3892.	108.	0.	3892.	6100.	0.	0.	0.	.64	62.	20.9	C	16.1	4.4
6	3	3820.	184.	1144.	4076.	184.	1144.	4076.	6137.	13.	0.	0.	.66	62.	21.9	C	17.1	4.8
7	2	1220.	0.	0.	2932.	0.	0.	2932.	4400.	0.	0.	0.	.67	62.	23.6	C	18.2	4.4
8	3	4810.	332.	708.	3264.	332.	708.	3264.	6100.	0.	0.	0.	.54	62.	17.5	B	20.6	4.4
9	2	1370.	0.	0.	2556.	0.	0.	2556.	4000.	0.	0.	0.	.64	62.	20.6	C	23.6	4.4
10	2	660.	220.	0.	2776.	220.	0.	2776.	4380.	20.	0.	0.	.63	62.	22.4	C	23.6	4.4
11	3	790.	1032.	772.	3808.	1032.	772.	3808.	5516.	584.	0.	0.	.69	62.	20.5	C	30.0	4.4
12	2	1460.	0.	0.	3036.	0.	0.	3036.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
13	3	1400.	632.	0.	3668.	632.	0.	3668.	5988.	112.	0.	0.	.61	62.	19.7	C	13.6	4.4
14	3	2600.	0.	648.	3668.	0.	648.	3668.	5988.	112.	0.	0.	.61	62.	19.7	C	20.6	4.4
15	2	2010.	0.	0.	3020.	0.	0.	3020.	3900.	0.	0.	0.	.77	62.	24.4	C	14.7	4.4
16	3	6120.	572.	660.	3592.	572.	660.	3592.	6100.	0.	0.	0.	.59	62.	19.3	C	18.2	4.4
17	2	1240.	0.	0.	2932.	0.	0.	2932.	4300.	0.	0.	0.	.68	62.	23.6	C	18.2	4.4
18	3	930.	480.	0.	3412.	480.	0.	3412.	6100.	0.	0.	0.	.56	62.	18.3	C	20.6	4.4
19	3	5330.	176.	600.	3588.	176.	600.	3588.	6076.	24.	0.	0.	.59	62.	19.3	C	20.6	4.4
20	2	2830.	0.	0.	2988.	0.	0.	2988.	3800.	0.	0.	0.	.79	61.	24.5	C	21.1	3.8
21	3	1660.	460.	744.	3448.	460.	744.	3448.	5884.	216.	0.	0.	.59	61.	18.8	C	21.1	3.8
22	2	2270.	0.	0.	2704.	0.	0.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	20.6	4.4
23	2	3040.	144.	376.	2848.	144.	376.	2848.	4100.	0.	0.	0.	.69	62.	23.0	C	20.6	4.4
24	2	2190.	0.	0.	2472.	0.	0.	2472.	4200.	0.	0.	0.	.59	65.	19.0	C	19.2	6.1
25	3	2400.	80.	2552.	2552.	80.	2552.	2552.	6150.	0.	0.	0.	.41	65.	13.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.79		LOWEST LOS = D	AVG = 60.	21.3		18.5	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 17 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	153. VEH-HRS	181. PASS-HRS	3112. VEH-HRS	3672. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	153. VEH-HRS	181. PASS-HRS	3112. VEH-HRS	3672. PASS-HRS
TOTAL TRAV DISTANCE =	9219. VEH-MI.	10879. PASS-MI.	178091. VEH-MI.	210148. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	21. VPMPL		25. VPMPL	
TOTAL FUEL =	497. GALLONS		9445. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		688. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2348.	0.	2348.	2348.	0.	2348.	3850.	0.	0.	0.	.61	50.	23.5	C	17.4	2.3
2	2	2070.	344.	0.	2692.	344.	0.	2692.	3840.	10.	0.	0.	.70	50.	26.9	D	15.9	2.3
3	3	2300.	1376.	320.	4068.	1376.	320.	4068.	5888.	212.	0.	0.	.69	55.	24.7	C	14.0	2.4
4	3	1020.	0.	0.	3748.	0.	0.	3748.	6100.	0.	0.	0.	.61	62.	20.2	C	19.9	4.8
5	3	710.	156.	0.	3904.	156.	0.	3904.	6100.	0.	0.	0.	.64	62.	21.0	C	16.1	4.4
6	3	3820.	156.	1040.	4060.	156.	1040.	4060.	6150.	0.	0.	0.	.66	62.	21.8	C	17.1	4.8
7	2	1220.	0.	0.	3020.	0.	0.	3020.	4400.	0.	0.	0.	.69	62.	24.4	C	18.2	4.4
8	3	4810.	328.	660.	3348.	328.	660.	3348.	6100.	0.	0.	0.	.55	62.	18.0	B	20.6	4.4
9	2	1370.	0.	0.	2688.	0.	0.	2688.	4000.	0.	0.	0.	.67	62.	21.7	C	23.6	4.4
10	2	660.	228.	0.	2916.	228.	0.	2916.	4380.	20.	0.	0.	.67	62.	23.5	C	23.6	4.4
11	3	790.	960.	740.	3876.	960.	740.	3876.	5520.	580.	0.	0.	.70	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3136.	0.	0.	3136.	4100.	0.	0.	0.	.76	62.	25.5	C	20.8	4.1
13	3	1400.	532.	0.	3668.	532.	0.	3668.	6016.	84.	0.	0.	.61	62.	19.7	C	13.6	4.4
14	3	2600.	0.	572.	3668.	0.	572.	3668.	6016.	84.	0.	0.	.61	62.	19.7	C	20.6	4.4
15	2	2010.	0.	0.	3096.	0.	0.	3096.	3900.	0.	0.	0.	.79	61.	25.3	C	15.0	3.8
16	3	6120.	564.	632.	3660.	564.	632.	3660.	6100.	0.	0.	0.	.60	62.	19.7	C	18.2	4.4
17	2	1240.	0.	0.	3028.	0.	0.	3028.	4300.	0.	0.	0.	.70	62.	24.4	C	18.2	4.4
18	3	930.	444.	0.	3472.	444.	0.	3472.	6100.	0.	0.	0.	.57	62.	18.7	C	20.6	4.4
19	3	5330.	160.	580.	3632.	160.	580.	3632.	6075.	25.	0.	0.	.60	62.	19.5	C	20.6	4.4
20	2	2830.	0.	0.	3052.	0.	0.	3052.	3800.	0.	0.	0.	.80	61.	25.0	C	21.1	3.8
21	3	1660.	408.	672.	3460.	408.	672.	3460.	5936.	164.	0.	0.	.58	61.	18.9	C	21.1	3.8
22	2	2270.	0.	0.	2788.	0.	0.	2788.	4400.	0.	0.	0.	.63	62.	22.5	C	20.6	4.4
23	2	3040.	180.	388.	2968.	180.	388.	2968.	4100.	0.	0.	0.	.72	62.	23.9	C	20.6	4.4
24	2	2190.	0.	0.	2580.	0.	0.	2580.	4200.	0.	0.	0.	.61	65.	19.8	C	19.2	6.1
25	3	2400.	80.	2660.	2660.	80.	2660.	2660.	6150.	0.	0.	0.	.43	65.	13.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 60.	21.4		18.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	154. VEH-HRS	182. PASS-HRS	3266. VEH-HRS	3854. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	182. PASS-HRS	3266. VEH-HRS	3854. PASS-HRS
TOTAL TRAV DISTANCE =	9293. VEH-MI.	10966. PASS-MI.	187384. VEH-MI.	221113. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	21. VPMPL		25. VPMPL	
TOTAL FUEL =	500. GALLONS		9945. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		727. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2356.	0.	2356.	2356.	0.	2356.	3850.	0.	0.	0.	.61	50.	23.6	C	17.4	2.3
2	2	2070.	348.	0.	2704.	348.	0.	2704.	3839.	11.	0.	0.	.70	50.	27.0	D	15.9	2.3
3	3	2300.	1432.	372.	4136.	1432.	372.	4136.	5843.	257.	0.	0.	.71	55.	25.1	C	14.0	2.4
4	3	1020.	0.	0.	3764.	0.	0.	3764.	6100.	0.	0.	0.	.62	62.	20.2	C	19.9	4.8
5	3	710.	168.	0.	3932.	168.	0.	3932.	6100.	0.	0.	0.	.64	62.	21.1	C	16.1	4.4
6	3	3820.	260.	732.	4192.	260.	732.	4192.	6150.	0.	0.	0.	.68	62.	22.5	C	17.1	4.8
7	2	1220.	0.	0.	3460.	0.	0.	3460.	4400.	0.	0.	0.	.79	61.	28.2	D	18.5	3.9
8	3	4810.	336.	692.	3796.	336.	692.	3796.	6100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
9	2	1370.	0.	0.	3104.	0.	0.	3104.	4000.	0.	0.	0.	.78	61.	25.3	C	23.9	4.0
10	2	660.	280.	0.	3384.	280.	0.	3384.	4376.	24.	0.	0.	.77	61.	27.5	D	23.9	4.0
11	3	790.	800.	780.	4184.	800.	780.	4184.	5440.	660.	0.	0.	.77	62.	22.5	C	30.0	4.4
12	2	1460.	0.	0.	3404.	0.	0.	3404.	4100.	0.	0.	0.	.83	60.	28.2	D	21.4	3.4
13	3	1400.	432.	0.	3836.	432.	0.	3836.	6040.	60.	0.	0.	.64	62.	20.6	C	13.6	4.4
14	3	2600.	0.	528.	3836.	0.	528.	3836.	6040.	60.	0.	0.	.64	62.	20.6	C	20.6	4.4
15	2	2010.	0.	0.	3308.	0.	0.	3308.	3900.	0.	0.	0.	.85	60.	27.7	D	15.4	3.1
16	3	6120.	432.	688.	3740.	432.	688.	3740.	6100.	0.	0.	0.	.61	62.	20.1	C	18.2	4.4
17	2	1240.	0.	0.	3052.	0.	0.	3052.	4300.	0.	0.	0.	.71	62.	24.6	C	18.2	4.4
18	3	930.	352.	0.	3404.	352.	0.	3404.	6100.	0.	0.	0.	.56	62.	18.3	C	20.6	4.4
19	3	5330.	140.	612.	3544.	140.	612.	3544.	6080.	20.	0.	0.	.58	62.	19.1	C	20.6	4.4
20	2	2830.	0.	0.	2932.	0.	0.	2932.	3800.	0.	0.	0.	.77	61.	24.0	C	21.1	3.8
21	3	1660.	332.	760.	3264.	332.	760.	3264.	5972.	128.	0.	0.	.55	61.	17.8	B	21.1	3.8
22	2	2270.	0.	0.	2504.	0.	0.	2504.	4400.	0.	0.	0.	.57	62.	20.2	C	20.6	4.4
23	2	3040.	152.	440.	2656.	152.	440.	2656.	4100.	0.	0.	0.	.65	62.	21.4	C	20.6	4.4
24	2	2190.	0.	0.	2216.	0.	0.	2216.	4200.	0.	0.	0.	.53	65.	17.0	B	19.2	6.1
25	3	2400.	76.	2292.	2292.	76.	2292.	2292.	6150.	0.	0.	0.	.37	65.	11.8	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 0.85 LOWEST LOS = D AVG = 60. 21.7 18.6 4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	156. VEH-HRS	185. PASS-HRS	3422. VEH-HRS	4038. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	156. VEH-HRS	185. PASS-HRS	3422. VEH-HRS	4038. PASS-HRS
TOTAL TRAV DISTANCE =	9393. VEH-MI.	11084. PASS-MI.	196777. VEH-MI.	232197. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	22. VPMPL		25. VPMPL	
TOTAL FUEL =	504. GALLONS		10449. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		765. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1740.	0.	1740.	1740.	0.	1740.	3850.	0.	0.	0.	.45	50.	17.4	B	17.4	2.3
2	2	2070.	332.	0.	2072.	332.	0.	2072.	3847.	3.	0.	0.	.54	50.	20.7	C	15.9	2.3
3	3	2300.	1536.	348.	3608.	1536.	348.	3608.	5896.	204.	0.	0.	.61	55.	21.9	C	14.0	2.4
4	3	1020.	0.	0.	3260.	0.	0.	3260.	6100.	0.	0.	0.	.53	62.	17.5	B	19.9	4.8
5	3	710.	244.	0.	3504.	244.	0.	3504.	6100.	0.	0.	0.	.57	62.	18.8	C	16.1	4.4
6	3	3820.	300.	804.	3804.	300.	804.	3804.	6150.	0.	0.	0.	.62	62.	20.5	C	17.1	4.8
7	2	1220.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	18.2	4.4
8	3	4810.	432.	632.	3432.	432.	632.	3432.	6100.	0.	0.	0.	.56	62.	18.5	C	20.6	4.4
9	2	1370.	0.	0.	2800.	0.	0.	2800.	4000.	0.	0.	0.	.70	62.	22.6	C	23.6	4.4
10	2	660.	248.	0.	3048.	248.	0.	3048.	4380.	20.	0.	0.	.70	62.	24.6	C	23.6	4.4
11	3	790.	752.	692.	3800.	752.	692.	3800.	5520.	580.	0.	0.	.69	62.	20.4	C	30.0	4.4
12	2	1460.	0.	0.	3108.	0.	0.	3108.	4100.	0.	0.	0.	.76	62.	25.2	C	20.8	4.1
13	3	1400.	412.	0.	3520.	412.	0.	3520.	6044.	56.	0.	0.	.58	62.	18.9	C	13.6	4.4
14	3	2600.	0.	476.	3520.	0.	476.	3520.	6044.	56.	0.	0.	.58	62.	18.9	C	20.6	4.4
15	2	2010.	0.	0.	3044.	0.	0.	3044.	3900.	0.	0.	0.	.78	62.	24.5	C	14.7	4.4
16	3	6120.	340.	608.	3384.	340.	608.	3384.	6100.	0.	0.	0.	.55	62.	18.2	C	18.2	4.4
17	2	1240.	0.	0.	2776.	0.	0.	2776.	4300.	0.	0.	0.	.65	62.	22.4	C	18.2	4.4
18	3	930.	392.	0.	3168.	392.	0.	3168.	6100.	0.	0.	0.	.52	62.	17.0	B	20.6	4.4
19	3	5330.	116.	508.	3284.	116.	508.	3284.	6085.	15.	0.	0.	.54	62.	17.7	B	20.6	4.4
20	2	2830.	0.	0.	2776.	0.	0.	2776.	3800.	0.	0.	0.	.73	61.	22.8	C	21.1	3.8
21	3	1660.	332.	636.	3108.	332.	636.	3108.	6021.	79.	0.	0.	.52	61.	17.0	B	21.1	3.8
22	2	2270.	0.	0.	2472.	0.	0.	2472.	4400.	0.	0.	0.	.56	62.	19.9	C	20.6	4.4
23	2	3040.	104.	364.	2576.	104.	364.	2576.	4100.	0.	0.	0.	.63	62.	20.8	C	20.6	4.4
24	2	2190.	0.	0.	2212.	0.	0.	2212.	4200.	0.	0.	0.	.53	65.	17.0	B	19.2	6.1
25	3	2400.	72.	2284.	2284.	72.	2284.	2284.	6150.	0.	0.	0.	.37	65.	11.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES							MAX(V/C) = 0.78	LOWEST LOS = C		AVG = 60.		19.3		18.6	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 20 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	140. VEH-HRS	165. PASS-HRS	3562. VEH-HRS	4204. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	165. PASS-HRS	3562. VEH-HRS	4204. PASS-HRS
TOTAL TRAV DISTANCE =	8477. VEH-MI.	10003. PASS-MI.	205254. VEH-MI.	242200. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	19. VPMPL		25. VPMPL	
TOTAL FUEL =	455. GALLONS		10903. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		801. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1492.	0.	1492.	1492.	0.	1492.	3850.	0.	0.	0.	.39	50.	14.9	B	17.4	2.3
2	2	2070.	408.	0.	1900.	408.	0.	1900.	3850.	0.	0.	0.	.49	50.	19.0	C	15.9	2.3
3	3	2300.	1360.	348.	3260.	1360.	348.	3260.	5906.	194.	0.	0.	.55	55.	19.8	C	14.0	2.4
4	3	1020.	0.	0.	2912.	0.	0.	2912.	6100.	0.	0.	0.	.48	62.	15.7	B	19.9	4.8
5	3	710.	144.	0.	3056.	144.	0.	3056.	6100.	0.	0.	0.	.50	62.	16.4	B	16.1	4.4
6	3	3820.	296.	676.	3352.	296.	676.	3352.	6150.	0.	0.	0.	.55	62.	18.0	C	17.1	4.8
7	2	1220.	0.	0.	2676.	0.	0.	2676.	4400.	0.	0.	0.	.61	62.	21.6	C	18.2	4.4
8	3	4810.	400.	532.	3076.	400.	532.	3076.	6100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
9	2	1370.	0.	0.	2544.	0.	0.	2544.	4000.	0.	0.	0.	.64	62.	20.5	C	23.6	4.4
10	2	660.	192.	0.	2736.	192.	0.	2736.	4382.	18.	0.	0.	.62	62.	22.1	C	23.6	4.4
11	3	790.	748.	704.	3484.	748.	704.	3484.	5526.	574.	0.	0.	.63	62.	18.7	C	30.0	4.4
12	2	1460.	0.	0.	2780.	0.	0.	2780.	4100.	0.	0.	0.	.68	62.	22.4	C	20.6	4.4
13	3	1400.	392.	0.	3172.	392.	0.	3172.	6032.	68.	0.	0.	.53	62.	17.1	B	13.6	4.4
14	3	2600.	0.	548.	3172.	0.	548.	3172.	6032.	68.	0.	0.	.53	62.	17.1	B	20.6	4.4
15	2	2010.	0.	0.	2624.	0.	0.	2624.	3900.	0.	0.	0.	.67	62.	21.2	C	14.7	4.4
16	3	6120.	328.	624.	2952.	328.	624.	2952.	6100.	0.	0.	0.	.48	62.	15.9	B	18.2	4.4
17	2	1240.	0.	0.	2328.	0.	0.	2328.	4300.	0.	0.	0.	.54	62.	18.8	C	18.2	4.4
18	3	930.	432.	0.	2760.	432.	0.	2760.	6100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
19	3	5330.	116.	480.	2876.	116.	480.	2876.	6100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
20	2	2830.	0.	0.	2396.	0.	0.	2396.	3800.	0.	0.	0.	.63	61.	19.6	C	21.1	3.8
21	3	1660.	380.	676.	2776.	380.	676.	2776.	5985.	115.	0.	0.	.46	61.	15.2	B	21.1	3.8
22	2	2270.	0.	0.	2100.	0.	0.	2100.	4400.	0.	0.	0.	.48	62.	16.9	B	20.6	4.4
23	2	3040.	72.	324.	2172.	72.	324.	2172.	4100.	0.	0.	0.	.53	62.	17.5	B	20.6	4.4
24	2	2190.	0.	0.	1848.	0.	0.	1848.	4200.	0.	0.	0.	.44	65.	14.2	B	19.2	6.1
25	3	2400.	68.	1916.	1916.	68.	1916.	1916.	6150.	0.	0.	0.	.31	65.	9.8	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.68		LOWEST LOS = C	AVG = 60.	16.9		18.6	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 21 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	123. VEH-HRS	145. PASS-HRS	3686. VEH-HRS	4349. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	123. VEH-HRS	145. PASS-HRS	3686. VEH-HRS	4349. PASS-HRS
TOTAL TRAV DISTANCE =	7441. VEH-MI.	8780. PASS-MI.	212695. VEH-MI.	250980. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	17. VPMPL		24. VPMPL	
TOTAL FUEL =	399. GALLONS		11302. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		832. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1316.	0.	1316.	1316.	0.	1316.	3850.	0.	0.	0.	.34	50.	13.2	B	17.4	2.3
2	2	2070.	452.	0.	1768.	452.	0.	1768.	3850.	0.	0.	0.	.46	50.	17.7	B	15.9	2.3
3	3	2300.	1312.	308.	3080.	1312.	308.	3080.	5942.	158.	0.	0.	.52	55.	18.7	C	14.0	2.4
4	3	1020.	0.	0.	2772.	0.	0.	2772.	6100.	0.	0.	0.	.45	62.	14.9	B	19.9	4.8
5	3	710.	96.	0.	2868.	96.	0.	2868.	6100.	0.	0.	0.	.47	62.	15.4	B	16.1	4.4
6	3	3820.	352.	616.	3220.	352.	616.	3220.	6150.	0.	0.	0.	.52	62.	17.3	B	17.1	4.8
7	2	1220.	0.	0.	2604.	0.	0.	2604.	4400.	0.	0.	0.	.59	62.	21.0	C	18.2	4.4
8	3	4810.	432.	624.	3036.	432.	624.	3036.	6100.	0.	0.	0.	.50	62.	16.3	B	20.6	4.4
9	2	1370.	0.	0.	2412.	0.	0.	2412.	4000.	0.	0.	0.	.60	62.	19.5	C	23.6	4.4
10	2	660.	196.	0.	2608.	196.	0.	2608.	4384.	16.	0.	0.	.59	62.	21.0	C	23.6	4.4
11	3	790.	648.	580.	3256.	648.	580.	3256.	5616.	484.	0.	0.	.58	62.	17.5	B	30.0	4.4
12	2	1460.	0.	0.	2676.	0.	0.	2676.	4100.	0.	0.	0.	.65	62.	21.6	C	20.6	4.4
13	3	1400.	316.	0.	2992.	316.	0.	2992.	6048.	52.	0.	0.	.49	62.	16.1	B	13.6	4.4
14	3	2600.	0.	500.	2992.	0.	500.	2992.	6048.	52.	0.	0.	.49	62.	16.1	B	20.6	4.4
15	2	2010.	0.	0.	2492.	0.	0.	2492.	3900.	0.	0.	0.	.64	62.	20.1	C	14.7	4.4
16	3	6120.	372.	616.	2864.	372.	616.	2864.	6100.	0.	0.	0.	.47	62.	15.4	B	18.2	4.4
17	2	1240.	0.	0.	2248.	0.	0.	2248.	4300.	0.	0.	0.	.52	62.	18.1	C	18.2	4.4
18	3	930.	288.	0.	2536.	288.	0.	2536.	6100.	0.	0.	0.	.42	62.	13.6	B	20.6	4.4
19	3	5330.	88.	504.	2624.	88.	504.	2624.	6100.	0.	0.	0.	.43	62.	14.1	B	20.6	4.4
20	2	2830.	0.	0.	2120.	0.	0.	2120.	3800.	0.	0.	0.	.56	61.	17.4	B	21.1	3.8
21	3	1660.	360.	600.	2480.	360.	600.	2480.	6046.	54.	0.	0.	.41	61.	13.6	B	21.1	3.8
22	2	2270.	0.	0.	1880.	0.	0.	1880.	4400.	0.	0.	0.	.43	62.	15.2	B	20.6	4.4
23	2	3040.	92.	348.	1972.	92.	348.	1972.	4100.	0.	0.	0.	.48	62.	15.9	B	20.6	4.4
24	2	2190.	0.	0.	1624.	0.	0.	1624.	4200.	0.	0.	0.	.39	65.	12.5	B	19.2	6.1
25	3	2400.	40.	1664.	1664.	40.	1664.	1664.	6150.	0.	0.	0.	.27	65.	8.5	A	18.6	6.6
TOTAL		60550. =	11.5 MILES						MAX(V/C) = 0.65		LOWEST LOS = C		AVG = 61.		15.8		18.6	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 22 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	136. PASS-HRS	3801. VEH-HRS	4485. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	115. VEH-HRS	136. PASS-HRS	3801. VEH-HRS	4485. PASS-HRS
TOTAL TRAV DISTANCE =	6963. VEH-MI.	8216. PASS-MI.	219658. VEH-MI.	259196. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		58. MPH.	
AVERAGE DENSITY =	16. VPMPL		24. VPMPL	
TOTAL FUEL =	374. GALLONS		11676. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		861. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1240.	0.	1240.	1240.	0.	1240.	3850.	0.	0.	0.	.32	50.	12.4	B	17.4	2.3
2	2	2070.	448.	0.	1688.	448.	0.	1688.	3850.	0.	0.	0.	.44	50.	16.9	B	15.9	2.3
3	3	2300.	1324.	320.	3012.	1324.	320.	3012.	5938.	162.	0.	0.	.51	55.	18.3	C	14.0	2.4
4	3	1020.	0.	0.	2692.	0.	0.	2692.	6100.	0.	0.	0.	.44	62.	14.5	B	19.9	4.8
5	3	710.	108.	0.	2800.	108.	0.	2800.	6100.	0.	0.	0.	.46	62.	15.1	B	16.1	4.4
6	3	3820.	244.	592.	3044.	244.	592.	3044.	6150.	0.	0.	0.	.49	62.	16.4	B	17.1	4.8
7	2	1220.	0.	0.	2452.	0.	0.	2452.	4400.	0.	0.	0.	.56	62.	19.8	C	18.2	4.4
8	3	4810.	396.	708.	2848.	396.	708.	2848.	6100.	0.	0.	0.	.47	62.	15.3	B	20.6	4.4
9	2	1370.	0.	0.	2140.	0.	0.	2140.	4000.	0.	0.	0.	.54	62.	17.3	B	23.6	4.4
10	2	660.	216.	0.	2356.	216.	0.	2356.	4378.	22.	0.	0.	.54	62.	19.0	C	23.6	4.4
11	3	790.	532.	628.	2888.	532.	628.	2888.	5658.	442.	0.	0.	.51	62.	15.5	B	30.0	4.4
12	2	1460.	0.	0.	2260.	0.	0.	2260.	4100.	0.	0.	0.	.55	62.	18.2	C	20.6	4.4
13	3	1400.	300.	0.	2560.	300.	0.	2560.	6057.	43.	0.	0.	.42	62.	13.8	B	13.6	4.4
14	3	2600.	0.	416.	2560.	0.	416.	2560.	6057.	43.	0.	0.	.42	62.	13.8	B	20.6	4.4
15	2	2010.	0.	0.	2144.	0.	0.	2144.	3900.	0.	0.	0.	.55	62.	17.3	B	14.7	4.4
16	3	6120.	288.	544.	2432.	288.	544.	2432.	6100.	0.	0.	0.	.40	62.	13.1	B	18.2	4.4
17	2	1240.	0.	0.	1888.	0.	0.	1888.	4300.	0.	0.	0.	.44	62.	15.2	B	18.2	4.4
18	3	930.	180.	0.	2068.	180.	0.	2068.	6100.	0.	0.	0.	.34	62.	11.1	B	20.6	4.4
19	3	5330.	72.	428.	2140.	72.	428.	2140.	6100.	0.	0.	0.	.35	62.	11.5	B	20.6	4.4
20	2	2830.	0.	0.	1712.	0.	0.	1712.	3800.	0.	0.	0.	.45	61.	14.0	B	21.1	3.8
21	3	1660.	280.	448.	1992.	280.	448.	1992.	6100.	0.	0.	0.	.33	61.	10.9	A	21.1	3.8
22	2	2270.	0.	0.	1544.	0.	0.	1544.	4400.	0.	0.	0.	.35	62.	12.5	B	20.6	4.4
23	2	3040.	84.	308.	1628.	84.	308.	1628.	4100.	0.	0.	0.	.40	62.	13.1	B	20.6	4.4
24	2	2190.	0.	0.	1320.	0.	0.	1320.	4200.	0.	0.	0.	.31	65.	10.2	A	19.2	6.1
25	3	2400.	32.	1352.	1352.	32.	1352.	1352.	6150.	0.	0.	0.	.22	65.	6.9	A	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 0.56 LOWEST LOS = C AVG = 60. 13.9 18.6 4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 23 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	101. VEH-HRS	120. PASS-HRS	3902. VEH-HRS	4604. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	101. VEH-HRS	120. PASS-HRS	3902. VEH-HRS	4604. PASS-HRS
TOTAL TRAV DISTANCE =	6117. VEH-MI.	7219. PASS-MI.	225775. VEH-MI.	266415. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	14. VPMPL		24. VPMPL	
TOTAL FUEL =	330. GALLONS		12006. GALLONS	
TOTAL EMISSIONS =	26. KILOGRAMS		887. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	180.	213.	0.	0.	180.	213.	10727.	12657.	59.5	565.	1.	30.	9.	14:00
2	197.	233.	0.	0.	197.	233.	11492.	13561.	58.3	602.	2.	30.	10.	14:15
3	188.	221.	0.	0.	188.	221.	11038.	13025.	58.8	579.	2.	30.	9.	14:30
4	208.	245.	0.	0.	208.	245.	11762.	13879.	56.7	613.	2.	31.	10.	14:45
5	185.	219.	0.	0.	185.	219.	10545.	12443.	56.9	556.	2.	30.	9.	15:00
6	179.	212.	0.	0.	179.	212.	10547.	12445.	58.8	554.	1.	30.	9.	15:15
7	172.	203.	0.	0.	172.	203.	10263.	12111.	59.5	542.	1.	30.	9.	15:30
8	195.	230.	0.	0.	195.	230.	11304.	13339.	58.1	598.	2.	32.	10.	15:45
9	191.	226.	0.	0.	191.	226.	10909.	12872.	57.0	578.	2.	31.	9.	16:00
10	203.	240.	0.	0.	203.	240.	11150.	13157.	54.9	594.	2.	31.	9.	16:15
11	207.	244.	0.	0.	207.	244.	10694.	12619.	51.7	571.	2.	31.	9.	16:30
12	209.	247.	0.	0.	209.	247.	10640.	12555.	50.9	571.	2.	31.	9.	16:45
13	169.	200.	0.	0.	169.	200.	9357.	11041.	55.3	498.	1.	28.	8.	17:00
14	158.	186.	0.	0.	158.	186.	9448.	11149.	60.0	507.	1.	29.	8.	17:15
15	154.	182.	0.	0.	154.	182.	9261.	10928.	60.1	496.	1.	29.	8.	17:30
16	163.	192.	0.	0.	163.	192.	9734.	11486.	59.8	525.	1.	30.	9.	17:45
17	153.	181.	0.	0.	153.	181.	9219.	10879.	60.1	497.	1.	29.	8.	18:00
18	154.	182.	0.	0.	154.	182.	9293.	10966.	60.2	500.	1.	29.	8.	18:15
19	156.	185.	0.	0.	156.	185.	9393.	11084.	60.1	504.	1.	29.	8.	18:30
20	140.	165.	0.	0.	140.	165.	8477.	10003.	60.5	455.	1.	27.	7.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	123.	145.	0.	0.	123.	145.	7441.	8780.	60.5	399.	1.	24.	7.	19:00
22	115.	136.	0.	0.	115.	136.	6963.	8216.	60.5	374.	1.	22.	6.	19:15
23	101.	120.	0.	0.	101.	120.	6117.	7219.	60.4	330.	1.	19.	5.	19:30
TOTAL	3902.	4604.	0.	0.	3902.	4604.	225775.	266415.	57.9	12006.	33.	660.	195.	

Opening Year (2025) Final Build
(Aux Lanes and BOS)
Northbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2516.	28.	2516.	2516.	28.	2516.	4400.	0.	0.	0.	.57	62.	20.3	C	13.6	4.8
2	2	1970.	0.	0.	2488.	0.	0.	2488.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
3	2	1830.	180.	40.	2668.	180.	40.	2668.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
4	2	2010.	0.	0.	2628.	0.	0.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
5	3	2445.	324.	116.	2952.	324.	116.	2952.	5600.	0.	0.	0.	.53	62.	15.9	B	13.6	4.8
6	2	1890.	0.	0.	2836.	0.	0.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
7	3	5320.	400.	136.	3236.	400.	136.	3236.	5600.	0.	0.	0.	.58	62.	17.4	B	13.6	4.8
8	2	880.	0.	0.	3100.	0.	0.	3100.	3900.	0.	0.	0.	.79	61.	25.4	C	15.2	4.3
9	2	1125.	88.	0.	3188.	88.	0.	3188.	3900.	0.	0.	0.	.82	61.	26.3	D	20.6	4.0
10	3	6320.	252.	88.	3440.	252.	88.	3440.	5599.	1.	0.	0.	.61	62.	18.5	C	19.9	4.8
11	2	2050.	0.	0.	3352.	0.	0.	3352.	4100.	0.	0.	0.	.82	61.	27.6	D	20.6	4.0
12	3	2560.	236.	0.	3588.	236.	0.	3588.	5588.	12.	0.	0.	.64	62.	19.3	C	17.2	4.8
13	3	1400.	0.	180.	3588.	0.	180.	3588.	5588.	12.	0.	0.	.64	62.	19.3	C	32.3	4.8
14	2	1320.	0.	0.	3408.	0.	0.	3408.	4400.	0.	0.	0.	.77	61.	27.7	D	15.1	4.4
15	3	540.	396.	592.	3804.	396.	592.	3804.	5264.	336.	0.	0.	.72	62.	20.5	C	12.6	4.8
16	2	1230.	0.	0.	3212.	0.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	20.0	4.7
17	2	890.	416.	0.	3628.	416.	0.	3628.	4399.	1.	0.	0.	.82	60.	30.0	D	20.7	3.9
18	3	4840.	76.	476.	3704.	76.	476.	3704.	5571.	29.	0.	0.	.66	62.	19.9	C	17.2	4.8
19	2	530.	0.	0.	3228.	0.	0.	3228.	3800.	0.	0.	0.	.85	60.	27.0	D	21.0	3.6
20	2	1040.	504.	0.	3732.	504.	0.	3732.	4392.	8.	0.	0.	.85	60.	31.2	D	21.0	3.6
21	3	2810.	328.	296.	4060.	328.	296.	4060.	5575.	25.	0.	0.	.73	62.	21.8	C	24.1	4.8
22	2	1850.	0.	0.	3764.	0.	0.	3764.	4400.	0.	0.	0.	.86	60.	31.6	D	18.1	3.5
23	3	2390.	212.	200.	3976.	212.	200.	3976.	5559.	41.	0.	0.	.72	62.	21.4	C	24.1	4.8
24	3	960.	0.	1980.	3776.	0.	1500.	3776.	5593.	7.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	1796.	1796.	0.	1796.	1796.	3600.	0.	0.	0.	.50	62.	14.5	B	19.9	4.8
TOTAL		62500. =	11.8 MILES							MAX(V/C) = 0.86	LOWEST LOS = D		AVG = 62.		21.1		16.6	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	152. VEH-HRS	172. PASS-HRS	152. VEH-HRS	172. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	15. VEH-HRS	17. PASS-HRS	15. VEH-HRS	17. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	167. VEH-HRS	189. PASS-HRS	167. VEH-HRS	189. PASS-HRS
TOTAL TRAV DISTANCE =	9362. VEH-MI.	10597. PASS-MI.	9362. VEH-MI.	10597. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		21. VPMPL	
TOTAL FUEL =	568. GALLONS		568. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		44. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	120.	15.00	5.68	0.09	0.54	0.09	0.72

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3204.	24.	3204.	3204.	24.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	13.6	4.7
2	2	1970.	0.	0.	3180.	0.	0.	3180.	4100.	0.	0.	0.	.78	61.	25.9	C	13.7	4.4
3	2	1830.	204.	56.	3384.	204.	56.	3384.	4100.	0.	0.	0.	.83	60.	28.0	D	14.0	3.9
4	2	2010.	0.	0.	3328.	0.	0.	3328.	4100.	0.	0.	0.	.81	61.	27.4	D	13.9	4.1
5	3	2445.	436.	140.	3764.	436.	140.	3764.	5600.	0.	0.	0.	.67	62.	20.2	C	13.6	4.8
6	2	1890.	0.	0.	3624.	0.	0.	3624.	4100.	0.	0.	0.	.88	59.	31.0	D	14.4	3.3
7	3	5320.	404.	188.	4028.	404.	188.	3968.	5600.	0. *	235.	60.	.71	59.	22.3	F	13.5	4.8
8	2	880.	0.	0.	3840.	0.	0.	3780.	3900.	0. **	880.	60.	.97	38.	50.2	F	15.4	2.7
9	2	1125.	120.	0.	3960.	120.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	296.	104.	4256.	296.	103.	4196.	5598.	2.	0.	0.	.75	62.	22.6	C	19.9	4.8
11	2	2050.	0.	0.	4152.	0.	0.	4093.	4100.	0.	0.	0.	.99	52.	39.6	E	23.0	2.3
12	3	2560.	268.	0.	4420.	268.	0.	4361.	5588.	12.	0.	0.	.78	62.	23.4	C	17.2	4.8
13	3	1400.	0.	188.	4420.	0.	185.	4361.	5588.	12.	0.	0.	.78	62.	23.4	C	32.3	4.8
14	2	1320.	0.	0.	4232.	0.	0.	4176.	4400.	0.	0.	0.	.95	55.	37.8	E	16.6	2.4
15	3	540.	396.	796.	4628.	396.	786.	4572.	5272.	328.	0.	0.	.87	62.	24.6	C	12.6	4.8
16	2	1230.	0.	0.	3832.	0.	0.	3785.	4400.	0.	0.	0.	.86	59.	31.9	D	21.1	3.5
17	2	890.	452.	0.	4284.	452.	0.	4237.	4396.	4.	0.	0.	.96	54.	39.1	E	22.5	2.4
18	3	4840.	92.	604.	4376.	92.	598.	4329.	5557.	43.	0.	0.	.78	62.	23.3	C	17.2	4.8
19	2	530.	0.	0.	3772.	0.	0.	3732.	3800.	0.	0.	0.	.98	53.	35.2	E	22.7	2.4
20	2	1040.	488.	0.	4260.	488.	0.	4220.	4390.	10.	0.	0.	.96	54.	38.8	E	22.4	2.4
21	3	2810.	388.	392.	4648.	388.	389.	4608.	5571.	29.	0.	0.	.83	62.	24.8	C	24.1	4.8
22	2	1850.	0.	0.	4256.	0.	0.	4219.	4400.	0.	0.	0.	.96	55.	38.7	E	19.4	2.4
23	3	2390.	204.	312.	4460.	204.	309.	4423.	5550.	50.	0.	0.	.80	62.	23.8	C	24.1	4.8
24	3	960.	0.	1948.	4148.	0.	1500.	4114.	5585.	15.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2200.	2200.	0.	2182.	2182.	3600.	0.	0.	0.	.61	62.	17.6	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 60.	26.8		16.8	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	191. VEH-HRS	216. PASS-HRS	343. VEH-HRS	388. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	43. VEH-HRS	49. PASS-HRS	58. VEH-HRS	66. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	234. VEH-HRS	265. PASS-HRS	401. VEH-HRS	454. PASS-HRS
TOTAL TRAV DISTANCE =	11360. VEH-MI.	12859. PASS-MI.	20721. VEH-MI.	23457. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		60. MPH.	
AVERAGE DENSITY =	27. VPMPL		24. VPMPL	
TOTAL FUEL =	692. GALLONS		1261. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		95. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	228.	43.50	16.48	0.25	1.56	0.27	2.08

QUEUE COLLISION IN SECTION 2 T2 =0.062

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	4264.	36.	4264.	4264.	36.	3860.	4400.	0.	* 5917.	404.	.88	45.	43.1	F	14.8	2.6
2	2	1970.	0.	0.	4228.	0.	0.	3824.	4100.	0.	** 1970.	276.	.93	32.	59.2	F	13.9	3.1
3	2	1830.	276.	240.	4504.	276.	219.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
4	2	2010.	0.	0.	4264.	0.	0.	3881.	4100.	0.	0.	0.	.95	55.	35.1	E	15.1	2.5
5	3	2445.	480.	168.	4744.	480.	154.	4254.	5600.	0.	* 788.	107.	.76	44.	32.4	F	13.2	4.9
6	2	1890.	0.	0.	4576.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
7	3	5320.	444.	260.	5020.	444.	235.	3975.	5600.	0.	* 4000.	569.	.71	28.	46.9	F	12.5	5.2
8	2	880.	0.	0.	4760.	0.	0.	3740.	3900.	0.	** 880.	160.	.96	34.	55.3	F	15.0	2.9
9	2	1125.	160.	0.	4920.	160.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	288.	156.	5208.	288.	125.	4188.	5597.	3.	0.	0.	.75	62.	22.5	C	19.9	4.8
11	2	2050.	0.	0.	5052.	0.	0.	4063.	4100.	0.	0.	0.	.99	52.	38.9	E	22.9	2.3
12	3	2560.	336.	0.	5388.	336.	0.	4399.	5584.	16.	0.	0.	.79	62.	23.6	C	17.2	4.8
13	3	1400.	0.	260.	5388.	0.	212.	4399.	5584.	16.	0.	0.	.79	62.	23.6	C	32.3	4.8
14	2	1320.	0.	0.	5128.	0.	0.	4187.	4400.	0.	0.	0.	.95	55.	38.0	E	16.7	2.4
15	3	540.	456.	1056.	5584.	456.	878.	4643.	5232.	368.	0.	0.	.89	58.	26.5	D	13.3	3.2
16	2	1230.	0.	0.	4528.	0.	0.	3764.	4400.	0.	0.	0.	.86	60.	31.6	D	21.0	3.5
17	2	890.	460.	0.	4988.	460.	0.	4224.	4393.	7.	0.	0.	.96	54.	38.8	E	22.4	2.4
18	3	4840.	76.	764.	5064.	76.	649.	4300.	5548.	52.	0.	0.	.78	62.	23.1	C	17.2	4.8
19	2	530.	0.	0.	4300.	0.	0.	3651.	3800.	0.	0.	0.	.96	54.	33.5	D	22.4	2.4
20	2	1040.	492.	0.	4792.	492.	0.	4143.	4385.	15.	0.	0.	.94	55.	37.4	E	22.2	2.5
21	3	2810.	448.	596.	5240.	448.	522.	4591.	5559.	41.	0.	0.	.83	62.	24.7	C	24.1	4.8
22	2	1850.	0.	0.	4644.	0.	0.	4069.	4400.	0.	0.	0.	.92	57.	35.9	E	18.9	2.8
23	3	2390.	180.	308.	4824.	180.	271.	4249.	5549.	51.	0.	0.	.77	62.	22.8	C	24.1	4.8
24	3	960.	0.	2136.	4516.	0.	1500.	3978.	5583.	17.	0.	0.	.71	62.	21.4	C	17.2	4.8
25	2	1400.	0.	2380.	2380.	0.	2096.	2096.	3600.	0.	0.	0.	.58	62.	16.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 49.	34.7		16.8	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	253. VEH-HRS	286. PASS-HRS	595. VEH-HRS	674. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	69. VEH-HRS	78. PASS-HRS	127. VEH-HRS	144. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	322. VEH-HRS	364. PASS-HRS	723. VEH-HRS	818. PASS-HRS
TOTAL TRAV DISTANCE =	12262. VEH-MI.	13880. PASS-MI.	32983. VEH-MI.	37337. PASS-MI.
AVERAGE SYSTEM SPEED =	38. MPH.		55. MPH.	
AVERAGE DENSITY =	35. VPMPL		28. VPMPL	
TOTAL FUEL =	755. GALLONS		2015. GALLONS	
TOTAL EMISSIONS =	49. KILOGRAMS		143. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	323.	68.92	26.10	0.40	2.47	0.43	3.30

QUEUE COLLISION IN SECTION 6 T2 =0.137
QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	4508.	68.	4508.	4400.	66.	3651.	4400.	0.	**12900.	749.	.83	24.	76.0	F	12.7	4.0
2	2	1970.	0.	0.	4440.	0.	0.	3584.	4100.	0.	** 1970.	516.	.87	25.	72.3	F	12.8	3.8
3	2	1830.	368.	504.	4808.	368.	415.	3952.	3952.	148.	0.	0.	1.00	52.	38.3	E	15.7	2.3
4	2	2010.	0.	0.	4304.	0.	0.	2908.	4100.	0.	* 762.	630.	.71	56.	26.0	F	14.2	3.5
5	3	2445.	868.	236.	5172.	868.	201.	3776.	5504.	96.	** 2445.	630.	.69	27.	46.9	F	12.4	5.2
6	2	1890.	0.	0.	4936.	0.	0.	3574.	4100.	0.	** 1890.	526.	.87	33.	54.0	F	14.1	3.1
7	3	5320.	464.	340.	5400.	464.	287.	4038.	5600.	0.	** 5320.	526.	.72	16.	85.7	F	11.3	5.7
8	2	880.	0.	0.	5060.	0.	0.	3751.	3900.	0.	** 880.	149.	.96	34.	54.8	F	15.0	2.9
9	2	1125.	148.	0.	5208.	148.	0.	3899.	3899.	1.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	332.	232.	5540.	332.	177.	4231.	5594.	6.	0.	0.	.76	62.	22.7	C	19.9	4.8
11	2	2050.	0.	0.	5308.	0.	0.	4054.	4100.	0.	0.	0.	.99	52.	38.7	E	22.8	2.4
12	3	2560.	392.	0.	5700.	392.	0.	4446.	5568.	32.	0.	0.	.80	62.	23.9	C	17.2	4.8
13	3	1400.	0.	440.	5700.	0.	343.	4446.	5568.	32.	0.	0.	.80	62.	23.9	C	32.3	4.8
14	2	1320.	0.	0.	5260.	0.	0.	4103.	4400.	0.	0.	0.	.93	56.	36.5	E	16.4	2.7
15	3	540.	524.	1276.	5784.	524.	1020.	4627.	5192.	408.	0.	0.	.89	58.	26.5	D	13.4	3.2
16	2	1230.	0.	0.	4508.	0.	0.	3606.	4400.	0.	0.	0.	.82	61.	29.8	D	20.6	4.0
17	2	890.	460.	0.	4968.	460.	0.	4066.	4393.	7.	0.	0.	.93	57.	36.0	E	21.9	2.8
18	3	4840.	88.	864.	5056.	88.	710.	4154.	5539.	61.	0.	0.	.75	62.	22.3	C	17.2	4.8
19	2	530.	0.	0.	4192.	0.	0.	3444.	3800.	0.	0.	0.	.91	58.	29.9	D	21.6	3.0
20	2	1040.	532.	0.	4724.	532.	0.	3976.	4378.	22.	0.	0.	.91	57.	34.6	D	21.6	3.0
21	3	2810.	472.	780.	5196.	472.	668.	4448.	5522.	78.	0.	0.	.81	62.	23.9	C	24.1	4.8
22	2	1850.	0.	0.	4416.	0.	0.	3780.	4400.	0.	0.	0.	.86	59.	31.8	D	18.1	3.5
23	3	2390.	236.	184.	4652.	236.	159.	4016.	5534.	66.	0.	0.	.73	62.	21.6	C	24.1	4.8
24	3	960.	0.	2284.	4468.	0.	1500.	3857.	5580.	20.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2184.	2184.	0.	1885.	1885.	3600.	0.	0.	0.	.52	62.	15.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 36.	45.4		15.9	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	326. VEH-HRS	369. PASS-HRS	921. VEH-HRS	1043. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	27. VEH-HRS	30. PASS-HRS	27. VEH-HRS	30. PASS-HRS
OFF-RAMP DELAY =	96. VEH-HRS	108. PASS-HRS	223. VEH-HRS	252. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	448. VEH-HRS	508. PASS-HRS	1171. VEH-HRS	1326. PASS-HRS
TOTAL TRAV DISTANCE =	11688. VEH-MI.	13230. PASS-MI.	44671. VEH-MI.	50567. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		48. MPH.	
AVERAGE DENSITY =	45. VPMPL		32. VPMPL	
TOTAL FUEL =	783. GALLONS		2798. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		198. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	214.	26.79	10.15	0.16	0.96	0.17	1.28
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	214.	26.79	10.15	0.16	0.96	0.17	1.28
OFF-RAMP	11	OUTPUT POINT	441.	95.58	36.20	0.56	3.42	0.60	4.57

QUEUE COLLISION IN SECTION 3 T2 =0.162
QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2640.	92.	2640.	2640.	92.	2770.	4400.	0.	* 10132.	-130.	.63	15.	92.3	F	11.1	5.8
2	2	1970.	0.	0.	2548.	0.	0.	2678.	4100.	0.	** 1970.	-130.	.65	15.	90.8	F	11.0	5.7
3	2	1830.	624.	688.	3172.	624.	799.	3302.	3685.	415.	** 1830.	383.	.90	37.	44.5	F	14.5	2.9
4	2	2010.	0.	0.	2484.	0.	0.	2503.	4100.	0.	** 2010.	383.	.61	12.	101.0	F	10.4	6.4
5	3	2445.	1724.	344.	4208.	1500.	359.	4003.	5396.	204.	** 2445.	383.	.74	16.	82.9	F	11.4	5.5
6	2	1890.	0.	0.	3864.	0.	0.	3644.	4100.	0.	** 1890.	383.	.89	26.	69.9	F	13.0	3.7
7	3	5320.	564.	444.	4428.	564.	460.	4208.	5600.	0.	** 5320.	383.	.75	17.	84.6	F	11.4	5.4
8	2	880.	0.	0.	3984.	0.	0.	3748.	3900.	0.	** 880.	152.	.96	34.	55.0	F	15.0	2.9
9	2	1125.	152.	0.	4136.	152.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	456.	280.	4592.	456.	265.	4356.	5596.	4.	0.	0.	.78	62.	23.4	C	19.9	4.8
11	2	2050.	0.	0.	4312.	0.	0.	4091.	4100.	0.	0.	0.	.99	52.	39.5	E	23.0	2.3
12	3	2560.	428.	0.	4740.	428.	0.	4519.	5560.	40.	0.	0.	.81	62.	24.3	C	17.2	4.8
13	3	1400.	0.	440.	4740.	0.	419.	4519.	5560.	40.	0.	0.	.81	62.	24.3	C	32.3	4.8
14	2	1320.	0.	0.	4300.	0.	0.	4099.	4400.	0.	0.	0.	.93	56.	36.5	E	16.4	2.7
15	3	540.	712.	1240.	5012.	712.	1190.	4811.	5064.	536.	0.	0.	.95	55.	29.1	D	14.0	2.4
16	2	1230.	0.	0.	3772.	0.	0.	3621.	4400.	0.	0.	0.	.82	61.	29.9	D	20.7	3.9
17	2	890.	536.	0.	4308.	536.	0.	4157.	4396.	4.	0.	0.	.95	55.	37.5	E	22.2	2.5
18	3	4840.	124.	832.	4432.	124.	803.	4281.	5541.	59.	0.	0.	.77	62.	23.0	C	17.2	4.8
19	2	530.	0.	0.	3600.	0.	0.	3477.	3800.	0.	0.	0.	.92	57.	30.5	D	21.7	2.9
20	2	1040.	644.	0.	4244.	644.	0.	4121.	4377.	23.	0.	0.	.94	56.	37.0	E	22.1	2.5
21	3	2810.	564.	748.	4808.	564.	729.	4685.	5479.	121.	0.	0.	.86	60.	26.2	D	25.5	3.5
22	2	1850.	0.	0.	4060.	0.	0.	3956.	4400.	0.	0.	0.	.90	58.	34.2	D	18.5	3.1
23	3	2390.	304.	176.	4364.	304.	172.	4260.	5522.	78.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1848.	4188.	0.	1500.	4088.	5576.	24.	0.	0.	.73	62.	22.0	C	17.2	4.8
25	2	1400.	0.	2340.	2340.	0.	2284.	2284.	3600.	0.	0.	0.	.63	62.	18.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 29.	54.3		15.4	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	388. VEH-HRS	439. PASS-HRS	1309. VEH-HRS	1482. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	34. VEH-HRS	38. PASS-HRS	61. VEH-HRS	69. PASS-HRS
OFF-RAMP DELAY =	120. VEH-HRS	136. PASS-HRS	343. VEH-HRS	388. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	542. VEH-HRS	613. PASS-HRS	1713. VEH-HRS	1939. PASS-HRS
TOTAL TRAV DISTANCE =	11227. VEH-MI.	12709. PASS-MI.	55898. VEH-MI.	63277. PASS-MI.
AVERAGE SYSTEM SPEED =	21. MPH.		43. MPH.	
AVERAGE DENSITY =	54. VPMPL		36. VPMPL	
TOTAL FUEL =	788. GALLONS		3586. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		257. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	0.	26.79	10.15	0.16	0.96	0.17	1.28
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	26.79	10.15	0.16	0.96	0.17	1.28
ON-RAMP	3	RAMP	56.	7.00	2.65	0.04	0.25	0.04	0.33
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	56.	7.00	2.65	0.04	0.25	0.04	0.33
OFF-RAMP	11	OUTPUT POINT	517.	119.83	45.39	0.70	4.29	0.75	5.73

QUEUE COLLISION IN SECTION 20 T2 =0.047

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2656.	120.	2656.	2656.	120.	2368.	4400.	0.	* 11763.	288.	.54	10.	118.2	F	9.1	7.2
2	2	1970.	0.	0.	2536.	0.	0.	2248.	4100.	0.	** 1970.	288.	.55	9.	126.9	F	8.7	7.5
3	2	1830.	724.	608.	3260.	724.	608.	2972.	3699.	401.	** 1830.	288.	.80	20.	75.9	F	11.9	4.7
4	2	2010.	0.	0.	2652.	0.	0.	2364.	4100.	0.	** 2010.	288.	.58	10.	122.2	F	9.4	7.0
5	3	2445.	1544.	456.	4196.	1500.	446.	3864.	5312.	288.	** 2445.	288.	.73	15.	83.7	F	11.3	5.6
6	2	1890.	0.	0.	3740.	0.	0.	3418.	4100.	0.	** 1890.	288.	.83	22.	79.1	F	12.2	4.3
7	3	5320.	856.	600.	4596.	856.	590.	4274.	5600.	0.	** 5320.	288.	.76	17.	82.8	F	11.5	5.2
8	2	880.	0.	0.	3996.	0.	0.	3684.	3900.	0.	** 880.	216.	.94	32.	57.6	F	14.8	3.1
9	2	1125.	216.	0.	4212.	216.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	556.	380.	4768.	556.	352.	4456.	5591.	9.	0.	0.	.80	62.	24.1	C	19.9	4.8
11	2	2050.	0.	0.	4388.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
12	3	2560.	576.	0.	4964.	576.	0.	4233.	5564.	36.	* 1541.	443.	.76	46.	30.8	F	17.3	3.8
13	3	1400.	0.	316.	4964.	0.	301.	4233.	5564.	36.	** 1400.	443.	.76	23.	60.7	F	29.3	4.7
14	2	1320.	0.	0.	4648.	0.	0.	3932.	4400.	0.	** 1320.	443.	.89	28.	71.2	F	14.2	3.5
15	3	540.	944.	1300.	5592.	944.	1135.	4876.	4876.	724.	0.	0.	1.00	52.	31.5	E	14.5	2.3
16	2	1230.	0.	0.	4292.	0.	0.	3741.	4400.	0.	0.	0.	.85	60.	31.3	D	21.0	3.6
17	2	890.	632.	0.	4924.	632.	0.	4373.	4391.	9.	0.	0.	.99	52.	42.1	E	22.9	2.3
18	3	4840.	168.	872.	5092.	168.	779.	4292.	5522.	78.	* 1605.	249.	.78	47.	30.3	F	16.7	4.8
19	2	530.	0.	0.	4220.	0.	0.	3513.	3800.	0.	** 530.	249.	.92	32.	55.0	F	20.9	3.1
20	2	1040.	700.	0.	4920.	700.	0.	4213.	4369.	31.	** 1040.	156.	.96	36.	59.0	F	21.7	2.8
21	3	2810.	868.	960.	5788.	868.	843.	5081.	5081.	519.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	4828.	0.	0.	4238.	4400.	0.	0.	0.	.96	54.	39.0	E	19.5	2.4
23	3	2390.	304.	196.	5132.	304.	174.	4542.	5529.	71.	0.	0.	.82	62.	24.4	C	24.1	4.8
24	3	960.	0.	1696.	4936.	0.	1500.	4368.	5573.	27.	0.	0.	.78	62.	23.5	C	17.2	4.8
25	2	1400.	0.	3240.	3240.	0.	2862.	2862.	3600.	0.	0.	0.	.80	62.	23.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 24.		66.3	14.9	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	459. VEH-HRS	520. PASS-HRS	1768. VEH-HRS	2002. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	15. VEH-HRS	17. PASS-HRS	76. VEH-HRS	86. PASS-HRS
OFF-RAMP DELAY =	130. VEH-HRS	147. PASS-HRS	472. VEH-HRS	535. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	604. VEH-HRS	684. PASS-HRS	2317. VEH-HRS	2623. PASS-HRS
TOTAL TRAV DISTANCE =	10992. VEH-MI.	12443. PASS-MI.	66890. VEH-MI.	75720. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		38. MPH.	
AVERAGE DENSITY =	66. VPMPL		41. VPMPL	
TOTAL FUEL =	795. GALLONS		4381. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		315. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	67.	15.37	5.82	0.09	0.55	0.10	0.74
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	67.	15.37	5.82	0.09	0.55	0.10	0.74
OFF-RAMP	11	OUTPUT POINT	519.	129.52	49.06	0.75	4.63	0.81	6.20

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3396.	152.	3396.	3396.	152.	2818.	4400.	0.	**12900.	578.	.64	12.	118.2	F	10.2	6.4
2	2	1970.	0.	0.	3244.	0.	0.	2666.	4100.	0.	** 1970.	578.	.65	12.	109.8	F	10.3	6.4
3	2	1830.	444.	264.	3688.	444.	264.	3110.	4077.	23.	** 1830.	578.	.76	17.	90.5	F	11.5	5.2
4	2	2010.	0.	0.	3424.	0.	0.	2846.	4100.	0.	** 2010.	578.	.69	14.	102.5	F	10.8	6.0
5	3	2445.	636.	356.	4060.	904.	384.	3750.	5405.	195.	** 2445.	578.	.69	14.	90.1	F	10.8	6.0
6	2	1890.	0.	0.	3704.	0.	0.	3366.	4100.	0.	** 1890.	578.	.82	21.	81.2	F	12.1	4.5
7	3	5320.	1072.	720.	4776.	1072.	750.	4438.	5511.	89.	** 5320.	578.	.81	20.	75.2	F	11.9	4.7
8	2	880.	0.	0.	4056.	0.	0.	3687.	3900.	0.	** 880.	213.	.95	32.	57.4	F	14.8	3.1
9	2	1125.	212.	0.	4268.	212.	0.	3899.	3899.	1.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	524.	436.	4792.	524.	400.	3567.	5588.	12.	* 3080.	856.	.64	40.	29.8	F	18.8	5.0
11	2	2050.	0.	0.	4356.	0.	0.	3167.	4100.	0.	** 2050.	856.	.77	23.	70.3	F	18.3	4.2
12	3	2560.	724.	0.	5080.	724.	0.	3891.	5564.	36.	** 2560.	856.	.70	15.	88.9	F	12.9	5.8
13	3	1400.	0.	248.	5080.	0.	235.	3891.	5564.	36.	** 1400.	856.	.70	14.	91.9	F	23.0	5.9
14	2	1320.	0.	0.	4832.	0.	0.	3656.	4400.	0.	** 1320.	744.	.83	21.	85.4	F	13.0	4.4
15	3	540.	1112.	1492.	5944.	1112.	1195.	4768.	4768.	832.	0.	0.	1.00	52.	30.8	E	14.5	2.3
16	2	1230.	0.	0.	4452.	0.	0.	2941.	4400.	0.	B 129.	631.	.67	61.	24.3	F	20.5	4.1
17	2	890.	648.	0.	5100.	648.	0.	3506.	4389.	11.	** 890.	631.	.80	49.	35.8	F	21.7	2.7
18	3	4840.	148.	808.	5248.	148.	662.	3654.	5520.	80.	B* 4840.	631.	.66	17.	72.1	F	13.4	5.8
19	2	530.	0.	0.	4440.	0.	0.	2992.	3800.	0.	BB 530.	631.	.79	19.	80.5	F	17.1	4.9
20	2	1040.	732.	0.	5172.	732.	0.	3599.	4362.	38.	** 1040.	631.	.82	21.	85.7	F	18.1	4.4
21	3	2810.	1124.	1200.	6296.	1124.	898.	4723.	4723.	877.	0.	0.	1.00	52.	30.5	E	30.3	2.3
22	2	1850.	0.	0.	5096.	0.	0.	3825.	4400.	0.	0.	0.	.87	59.	32.4	D	18.2	3.4
23	3	2390.	368.	260.	5464.	368.	198.	4193.	5509.	91.	0.	0.	.76	62.	22.5	C	24.1	4.8
24	3	960.	0.	1908.	5204.	0.	1500.	3995.	5563.	37.	0.	0.	.72	62.	21.5	C	17.2	4.8
25	2	1400.	0.	3296.	3296.	0.	2529.	2529.	3600.	0.	0.	0.	.70	62.	20.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 20.	73.4		14.2	5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	525. VEH-HRS	595. PASS-HRS	2294. VEH-HRS	2596. PASS-HRS
FREEWAY MERGE DELAY =	7. VEH-HRS	7. PASS-HRS	7. VEH-HRS	7. PASS-HRS
ON-RAMP MRG/CAP DELAY =	26. VEH-HRS	30. PASS-HRS	102. VEH-HRS	116. PASS-HRS
OFF-RAMP DELAY =	129. VEH-HRS	146. PASS-HRS	601. VEH-HRS	680. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	687. VEH-HRS	777. PASS-HRS	3004. VEH-HRS	3400. PASS-HRS
TOTAL TRAV DISTANCE =	10725. VEH-MI.	12140. PASS-MI.	77615. VEH-MI.	87860. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		34. MPH.	
AVERAGE DENSITY =	73. VPMPL		46. VPMPL	
TOTAL FUEL =	818. GALLONS		5199. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		376. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	145.	18.07	6.84	0.11	0.65	0.11	0.86
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	145.	18.07	6.84	0.11	0.65	0.11	0.86
ON-RAMP	3	RAMP	0.	8.37	3.17	0.05	0.30	0.05	0.40
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	8.37	3.17	0.05	0.30	0.05	0.40
ON-RAMP	9	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	21.	2.62	0.99	0.02	0.09	0.02	0.13
		TOTAL	21.	2.62	0.99	0.02	0.09	0.02	0.13
ON-RAMP	11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	31.	3.91	1.48	0.02	0.14	0.02	0.19
		TOTAL	31.	3.91	1.48	0.02	0.14	0.02	0.19
OFF-RAMP	11	OUTPUT POINT	510.	128.63	48.72	0.75	4.60	0.80	6.15

```
QUEUE COLLISION IN SECTION  15 T2 =0.079
QUEUE COLLISION IN SECTION   9 T2 =0.217
QUEUE OUT OF SECTION 1
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3052.	200.	3052.	3052.	200.	1764.	4400.	0.	* 12791.	1288.	.40	14.	63.6	F	10.8	5.9
2	2	1970.	0.	0.	2852.	0.	0.	1564.	4100.	0.	** 1970.	1288.	.38	14.	57.6	F	10.8	5.9
3	2	1830.	368.	252.	3220.	368.	252.	1932.	4100.	0.	** 1830.	1288.	.47	18.	53.8	F	11.5	4.8
4	2	2010.	0.	0.	2968.	0.	0.	1680.	4100.	0.	** 2010.	1288.	.41	15.	56.7	F	10.9	5.5
5	3	2445.	656.	340.	3624.	656.	340.	2336.	5530.	70.	** 2445.	1288.	.42	12.	64.4	F	10.2	6.3
6	2	1890.	0.	0.	3284.	0.	0.	1996.	4100.	0.	** 1890.	1288.	.49	19.	52.9	F	11.7	4.6
7	3	5320.	972.	724.	4256.	972.	724.	2968.	5572.	28.	** 5320.	1288.	.53	17.	58.6	F	11.3	5.1
8	2	880.	0.	0.	3532.	0.	0.	2244.	3900.	0.	** 880.	1288.	.58	27.	41.9	F	14.2	3.4
9	2	1125.	212.	0.	3744.	212.	0.	2456.	3900.	0.	** 1125.	1444.	.63	36.	33.7	F	21.2	2.8
10	3	6320.	468.	408.	4212.	468.	423.	2924.	5592.	8.	** 6320.	1444.	.52	15.	65.3	F	13.8	6.3
11	2	2050.	0.	0.	3804.	0.	0.	2501.	4100.	0.	** 2050.	1444.	.61	14.	86.9	F	15.2	5.8
12	3	2560.	824.	0.	4628.	824.	0.	3325.	5544.	56.	** 2560.	1444.	.60	12.	89.7	F	12.1	6.3
13	3	1400.	0.	312.	4628.	0.	322.	3325.	5544.	56.	** 1400.	1444.	.60	12.	93.1	F	20.1	6.4
14	2	1320.	0.	0.	4316.	0.	0.	2956.	4400.	0.	** 1320.	1444.	.67	15.	99.2	F	11.7	5.6
15	3	540.	1204.	1464.	5520.	1204.	1251.	4160.	4716.	884.	** 540.	556.	.88	30.	45.7	F	13.0	3.3
16	2	1230.	0.	0.	4056.	0.	0.	2909.	4400.	0.	** 1230.	556.	.66	14.	103.3	F	14.6	6.0
17	2	890.	504.	0.	4560.	504.	0.	3497.	4394.	6.	** 890.	556.	.80	19.	91.6	F	17.3	4.8
18	3	4840.	168.	744.	4728.	168.	665.	3665.	5543.	57.	** 4840.	556.	.66	13.	97.3	F	12.1	6.3
19	2	530.	0.	0.	3984.	0.	0.	3000.	3800.	0.	B* 530.	556.	.79	19.	80.2	F	17.2	4.9
20	2	1040.	728.	0.	4712.	728.	0.	3778.	4364.	36.	** 1040.	556.	.87	24.	78.5	F	19.0	3.9
21	3	2810.	1048.	1188.	5760.	1048.	995.	4826.	4826.	774.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4572.	0.	0.	3832.	4400.	0.	0.	0.	.87	59.	32.5	D	18.2	3.4
23	3	2390.	408.	308.	4980.	408.	262.	4240.	5494.	106.	0.	0.	.77	62.	22.8	C	24.1	4.8
24	3	960.	0.	1816.	4672.	0.	1500.	3978.	5562.	38.	0.	0.	.72	62.	21.4	C	17.2	4.8
25	2	1400.	0.	2856.	2856.	0.	2431.	2431.	3600.	0.	0.	0.	.68	62.	19.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 17.	63.2		13.3	5.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	603. VEH-HRS	682. PASS-HRS	2896. VEH-HRS	3279. PASS-HRS
FREEWAY MERGE DELAY =	3. VEH-HRS	4. PASS-HRS	10. VEH-HRS	11. PASS-HRS
ON-RAMP MRG/CAP DELAY =	18. VEH-HRS	20. PASS-HRS	120. VEH-HRS	136. PASS-HRS
OFF-RAMP DELAY =	129. VEH-HRS	146. PASS-HRS	730. VEH-HRS	826. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	753. VEH-HRS	852. PASS-HRS	3757. VEH-HRS	4252. PASS-HRS
TOTAL TRAV DISTANCE =	10315. VEH-MI.	11677. PASS-MI.	87930. VEH-MI.	99537. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		30. MPH.	
AVERAGE DENSITY =	63. VPMPL		48. VPMPL	
TOTAL FUEL =	831. GALLONS		6030. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		437. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	0.	18.07	6.84	0.11	0.65	0.11	0.86
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	0.	18.07	6.84	0.11	0.65	0.11	0.86
ON-RAMP 9	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	0.	0.80	0.30	0.00	0.03	0.01	0.04
	TOTAL	0.	0.80	0.30	0.00	0.03	0.01	0.04
ON-RAMP 11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	19.	2.34	0.89	0.01	0.08	0.01	0.11
	TOTAL	19.	2.34	0.89	0.01	0.08	0.01	0.11
OFF-RAMP 11	OUTPUT POINT	522.	129.00	48.86	0.75	4.62	0.81	6.17

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3380.	196.	3380.	3380.	196.	1897.	4400.	0.	**12900.	1483.	.43	6.	157.2	F	7.1	9.0
2	2	1970.	0.	0.	3184.	0.	0.	1701.	4100.	0.	** 1970.	1483.	.41	6.	149.2	F	6.9	9.2
3	2	1830.	376.	308.	3560.	376.	308.	2077.	4086.	14.	** 1830.	1483.	.51	8.	133.1	F	8.0	8.1
4	2	2010.	0.	0.	3252.	0.	0.	1769.	4100.	0.	** 2010.	1483.	.43	6.	146.5	F	7.1	9.0
5	3	2445.	712.	492.	3964.	712.	492.	2481.	5378.	222.	** 2445.	1483.	.46	7.	123.7	F	7.4	8.7
6	2	1890.	0.	0.	3472.	0.	0.	1989.	4100.	0.	** 1890.	1483.	.49	7.	137.5	F	7.7	8.4
7	3	5320.	852.	696.	4324.	852.	696.	2841.	5600.	0.	** 5320.	1483.	.51	8.	121.8	F	8.0	8.1
8	2	880.	0.	0.	3628.	0.	0.	2145.	3900.	0.	** 880.	1483.	.55	9.	120.4	F	9.3	7.5
9	2	1125.	224.	0.	3852.	224.	0.	2369.	3900.	0.	** 1125.	1483.	.61	11.	111.3	F	12.9	6.7
10	3	6320.	420.	400.	4272.	420.	400.	2789.	5591.	9.	** 6320.	1483.	.50	8.	122.9	F	9.8	8.2
11	2	2050.	0.	0.	3872.	0.	0.	2389.	4100.	0.	** 2050.	1483.	.58	10.	121.1	F	12.4	6.9
12	3	2560.	816.	0.	4688.	816.	0.	3205.	5540.	60.	** 2560.	1483.	.58	10.	109.8	F	10.9	7.0
13	3	1400.	0.	344.	4688.	0.	344.	3205.	5540.	60.	** 1400.	1483.	.58	10.	109.8	F	17.0	7.0
14	2	1320.	0.	0.	4344.	0.	0.	2861.	4400.	0.	** 1320.	1483.	.65	12.	117.9	F	10.9	6.4
15	3	540.	1256.	1452.	5600.	1256.	1210.	4117.	4668.	932.	** 540.	551.	.88	25.	53.9	F	12.4	3.7
16	2	1230.	0.	0.	4148.	0.	0.	2907.	4400.	0.	** 1230.	551.	.66	13.	116.0	F	14.0	6.3
17	2	890.	532.	0.	4680.	532.	0.	3439.	4394.	6.	** 890.	551.	.78	18.	93.9	F	17.0	5.0
18	3	4840.	212.	668.	4892.	212.	574.	3651.	5548.	52.	** 4840.	551.	.66	12.	97.9	F	12.0	6.3
19	2	530.	0.	0.	4224.	0.	0.	3078.	3800.	0.	B* 530.	551.	.81	20.	77.0	F	17.8	4.6
20	2	1040.	684.	0.	4908.	684.	0.	3788.	4365.	35.	** 1040.	551.	.87	24.	78.1	F	19.1	3.9
21	3	2810.	1044.	1184.	5952.	1044.	961.	4832.	4832.	768.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4768.	0.	0.	3871.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	444.	268.	5212.	444.	223.	4315.	5486.	114.	0.	0.	.79	62.	23.2	C	24.1	4.8
24	3	960.	0.	1876.	4944.	0.	1500.	4092.	5556.	44.	0.	0.	.74	62.	22.0	C	17.2	4.8
25	2	1400.	0.	3068.	3068.	0.	2540.	2540.	3600.	0.	0.	0.	.71	62.	20.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 10.	112.4		10.8	6.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	799. VEH-HRS	904. PASS-HRS	3695. VEH-HRS	4183. PASS-HRS
FREEWAY MERGE DELAY =	2. VEH-HRS	2. PASS-HRS	11. VEH-HRS	13. PASS-HRS
ON-RAMP MRG/CAP DELAY =	46. VEH-HRS	52. PASS-HRS	167. VEH-HRS	189. PASS-HRS
OFF-RAMP DELAY =	132. VEH-HRS	150. PASS-HRS	862. VEH-HRS	976. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	979. VEH-HRS	1108. PASS-HRS	4735. VEH-HRS	5360. PASS-HRS
TOTAL TRAV DISTANCE =	8253. VEH-MI.	9343. PASS-MI.	96184. VEH-MI.	108880. PASS-MI.
AVERAGE SYSTEM SPEED =	8. MPH.		26. MPH.	
AVERAGE DENSITY =	112. VPMPL		55. VPMPL	
TOTAL FUEL =	833. GALLONS		6863. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		501. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	371.	46.34	17.55	0.27	1.66	0.29	2.22
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	371.	46.34	17.55	0.27	1.66	0.29	2.22
ON-RAMP 11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	12.	1.51	0.57	0.01	0.05	0.01	0.07
	TOTAL	12.	1.51	0.57	0.01	0.05	0.01	0.07
OFF-RAMP 11	OUTPUT POINT	535.	132.08	50.02	0.77	4.73	0.82	6.32

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3436.	180.	3436.	3436.	180.	1969.	4400.	0.	**12900.	1467.	.45	6.	154.3	F	7.2	8.9
2	2	1970.	0.	0.	3256.	0.	0.	1789.	4100.	0.	** 1970.	1467.	.44	6.	145.6	F	7.1	9.0
3	2	1830.	404.	416.	3660.	404.	416.	2193.	3993.	107.	** 1830.	1467.	.55	9.	123.4	F	8.8	7.5
4	2	2010.	0.	0.	3244.	0.	0.	1777.	4100.	0.	** 2010.	1467.	.43	6.	146.1	F	7.1	9.0
5	3	2445.	980.	504.	4224.	980.	504.	2757.	5290.	310.	** 2445.	1467.	.52	8.	113.0	F	8.2	7.9
6	2	1890.	0.	0.	3720.	0.	0.	2253.	4100.	0.	** 1890.	1467.	.55	9.	126.7	F	8.8	7.5
7	3	5320.	776.	688.	4496.	776.	688.	3029.	5600.	0.	** 5320.	1467.	.54	9.	116.7	F	8.6	7.6
8	2	880.	0.	0.	3808.	0.	0.	2341.	3900.	0.	** 880.	1467.	.60	10.	112.4	F	10.4	6.8
9	2	1125.	188.	0.	3996.	188.	0.	2529.	3900.	0.	** 1125.	1371.	.65	12.	104.7	F	13.7	6.4
10	3	6320.	368.	412.	4364.	368.	403.	2897.	5592.	8.	** 6320.	1371.	.52	8.	120.0	F	10.2	7.9
11	2	2050.	0.	0.	3952.	0.	0.	2494.	4100.	0.	** 2050.	1371.	.61	11.	116.8	F	12.9	6.7
12	3	2560.	732.	0.	4684.	732.	0.	3226.	5552.	48.	** 2560.	1371.	.58	10.	109.6	F	11.0	7.0
13	3	1400.	0.	316.	4684.	0.	310.	3226.	5552.	48.	** 1400.	1371.	.58	10.	109.6	F	17.2	7.0
14	2	1320.	0.	0.	4368.	0.	0.	2916.	4400.	0.	** 1320.	1371.	.66	13.	115.6	F	11.0	6.3
15	3	540.	1176.	1392.	5544.	1176.	1185.	4092.	4720.	880.	** 540.	628.	.87	24.	56.4	F	12.2	3.9
16	2	1230.	0.	0.	4152.	0.	0.	2907.	4400.	0.	** 1230.	628.	.66	13.	116.0	F	14.0	6.3
17	2	890.	612.	0.	4764.	612.	0.	3519.	4393.	7.	** 890.	628.	.80	19.	90.6	F	17.5	4.7
18	3	4840.	220.	628.	4984.	220.	550.	3739.	5542.	58.	** 4840.	628.	.67	13.	95.3	F	12.3	6.2
19	2	530.	0.	0.	4356.	0.	0.	3189.	3800.	0.	B* 530.	611.	.84	22.	72.5	F	18.4	4.3
20	2	1040.	684.	0.	5040.	684.	0.	3846.	4367.	33.	** 1040.	520.	.88	25.	75.8	F	19.4	3.7
21	3	2810.	1004.	1092.	6044.	1004.	876.	4850.	4850.	750.	0.	0.	1.00	52.	31.4	E	30.3	2.3
22	2	1850.	0.	0.	4952.	0.	0.	3974.	4400.	0.	0.	0.	.90	58.	34.4	D	18.6	3.0
23	3	2390.	536.	240.	5488.	536.	198.	4510.	5472.	128.	0.	0.	.82	62.	24.2	C	24.1	4.8
24	3	960.	0.	1852.	5248.	0.	1500.	4312.	5548.	52.	0.	0.	.78	62.	23.2	C	17.2	4.8
25	2	1400.	0.	3396.	3396.	0.	2790.	2790.	3600.	0.	0.	0.	.78	62.	22.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 11.	109.3		11.2	6.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	777. VEH-HRS	880. PASS-HRS	4472. VEH-HRS	5063. PASS-HRS
FREEWAY MERGE DELAY =	2. VEH-HRS	3. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	92. VEH-HRS	104. PASS-HRS	259. VEH-HRS	293. PASS-HRS
OFF-RAMP DELAY =	134. VEH-HRS	152. PASS-HRS	996. VEH-HRS	1128. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	1006. VEH-HRS	1139. PASS-HRS	5741. VEH-HRS	6499. PASS-HRS
TOTAL TRAV DISTANCE =	8575. VEH-MI.	9706. PASS-MI.	104758. VEH-MI.	118586. PASS-MI.
AVERAGE SYSTEM SPEED =	9. MPH.		23. MPH.	
AVERAGE DENSITY =	109. VPMPL		61. VPMPL	
TOTAL FUEL =	855. GALLONS		7718. GALLONS	
TOTAL EMISSIONS =	67. KILOGRAMS		568. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	367.	92.18	34.91	0.54	3.30	0.58	4.41
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	367.	92.18	34.91	0.54	3.30	0.58	4.41
ON-RAMP	11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	19.	2.34	0.89	0.01	0.08	0.01	0.11
		TOTAL	19.	2.34	0.89	0.01	0.08	0.01	0.11
OFF-RAMP	11	OUTPUT POINT	540.	134.39	50.90	0.78	4.81	0.84	6.43

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3196.	164.	3196.	3196.	164.	2096.	4400.	0.	**12900.	1100.	.48	7.	149.1	F	7.6	8.5
2	2	1970.	0.	0.	3032.	0.	0.	1932.	4100.	0.	** 1970.	1100.	.47	7.	139.8	F	7.5	8.6
3	2	1830.	360.	472.	3392.	360.	472.	2292.	3992.	108.	** 1830.	1100.	.57	10.	119.3	F	9.4	7.1
4	2	2010.	0.	0.	2920.	0.	0.	1820.	4100.	0.	** 2010.	1100.	.44	6.	144.4	F	7.2	8.9
5	3	2445.	1136.	460.	4056.	1136.	460.	2956.	5318.	282.	** 2445.	1100.	.56	9.	108.6	F	8.9	7.4
6	2	1890.	0.	0.	3596.	0.	0.	2496.	4100.	0.	** 1890.	1100.	.61	11.	116.8	F	9.9	6.7
7	3	5320.	740.	696.	4336.	740.	696.	3236.	5600.	0.	** 5320.	1100.	.58	10.	111.0	F	9.5	7.0
8	2	880.	0.	0.	3640.	0.	0.	2540.	3900.	0.	** 880.	1100.	.65	12.	104.3	F	10.9	6.4
9	2	1125.	156.	0.	3796.	156.	0.	2696.	3900.	0.	** 1125.	1100.	.69	14.	97.9	F	14.7	6.0
10	3	6320.	404.	460.	4200.	404.	460.	3100.	5593.	7.	** 6320.	1100.	.55	9.	114.5	F	11.3	7.4
11	2	2050.	0.	0.	3740.	0.	0.	2640.	4100.	0.	** 2050.	1100.	.64	12.	110.9	F	13.6	6.4
12	3	2560.	700.	0.	4440.	700.	0.	3340.	5544.	56.	** 2560.	1100.	.60	10.	106.2	F	11.3	6.8
13	3	1400.	0.	356.	4440.	0.	356.	3340.	5544.	56.	** 1400.	1100.	.60	10.	106.2	F	18.1	6.8
14	2	1320.	0.	0.	4084.	0.	0.	2984.	4400.	0.	** 1320.	1100.	.68	13.	112.8	F	11.3	6.1
15	3	540.	1088.	1508.	5172.	1088.	1408.	4072.	4828.	772.	** 540.	756.	.84	22.	60.8	F	11.8	4.2
16	2	1230.	0.	0.	3664.	0.	0.	2665.	4400.	0.	** 1230.	756.	.61	11.	125.9	F	12.9	6.7
17	2	890.	664.	0.	4328.	664.	0.	3329.	4395.	5.	** 890.	756.	.76	17.	98.5	F	16.4	5.3
18	3	4840.	180.	596.	4508.	180.	564.	3509.	5541.	59.	** 4840.	756.	.63	12.	101.5	F	11.7	6.5
19	2	530.	0.	0.	3912.	0.	0.	2945.	3800.	0.	B* 530.	756.	.77	18.	82.4	F	16.8	5.1
20	2	1040.	764.	0.	4676.	764.	0.	3780.	4361.	39.	** 1040.	581.	.87	24.	78.3	F	19.0	3.9
21	3	2810.	1044.	1196.	5720.	1044.	1009.	4824.	4824.	776.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4524.	0.	0.	3815.	4400.	0.	0.	0.	.87	59.	32.2	D	18.2	3.4
23	3	2390.	424.	176.	4948.	424.	151.	4239.	5483.	117.	0.	0.	.77	62.	22.8	C	24.1	4.8
24	3	960.	0.	1920.	4772.	0.	1500.	4088.	5558.	42.	0.	0.	.74	62.	22.0	C	17.2	4.8
25	2	1400.	0.	2852.	2852.	0.	2444.	2444.	3600.	0.	0.	0.	.68	62.	19.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 12.	106.4		11.5	6.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	757. VEH-HRS	857. PASS-HRS	5229. VEH-HRS	5920. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	80. VEH-HRS	91. PASS-HRS	339. VEH-HRS	384. PASS-HRS
OFF-RAMP DELAY =	140. VEH-HRS	158. PASS-HRS	1136. VEH-HRS	1286. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	977. VEH-HRS	1106. PASS-HRS	6718. VEH-HRS	7605. PASS-HRS
TOTAL TRAV DISTANCE =	8727. VEH-MI.	9879. PASS-MI.	113485. VEH-MI.	128465. PASS-MI.
AVERAGE SYSTEM SPEED =	9. MPH.		22. MPH.	
AVERAGE DENSITY =	106. VPMPL		65. VPMPL	
TOTAL FUEL =	845. GALLONS		8563. GALLONS	
TOTAL EMISSIONS =	66. KILOGRAMS		634. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	275.	80.20	30.38	0.47	2.87	0.50	3.84
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	275.	80.20	30.38	0.47	2.87	0.50	3.84
ON-RAMP 11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	1.	0.11	0.04	0.00	0.00	0.00	0.01
	TOTAL	1.	0.11	0.04	0.00	0.00	0.00	0.01
OFF-RAMP 11	OUTPUT POINT	577.	139.60	52.87	0.81	5.00	0.87	6.68

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3420.	204.	3420.	3420.	204.	2804.	4400.	0.	**12900.	616.	.64	12.	120.2	F	10.1	6.5
2	2	1970.	0.	0.	3216.	0.	0.	2600.	4100.	0.	** 1970.	616.	.63	12.	112.5	F	10.1	6.5
3	2	1830.	360.	372.	3576.	360.	372.	2960.	4051.	49.	** 1830.	616.	.73	16.	95.2	F	11.3	5.6
4	2	2010.	0.	0.	3204.	0.	0.	2588.	4100.	0.	** 2010.	616.	.63	11.	113.0	F	10.1	6.5
5	3	2445.	920.	392.	4124.	920.	392.	3508.	5387.	213.	** 2445.	616.	.65	12.	96.1	F	10.3	6.4
6	2	1890.	0.	0.	3732.	0.	0.	3116.	4100.	0.	** 1890.	616.	.76	17.	91.4	F	11.5	5.3
7	3	5320.	728.	736.	4460.	728.	736.	3844.	5600.	0.	** 5320.	616.	.69	14.	94.5	F	10.7	6.1
8	2	880.	0.	0.	3724.	0.	0.	3108.	3900.	0.	** 880.	616.	.80	19.	81.1	F	12.6	4.8
9	2	1125.	168.	0.	3892.	168.	0.	3276.	3900.	0.	** 1125.	616.	.84	22.	74.2	F	18.4	4.2
10	3	6320.	412.	448.	4304.	412.	448.	3688.	5593.	7.	** 6320.	616.	.66	12.	98.5	F	13.9	6.3
11	2	2050.	0.	0.	3856.	0.	0.	3240.	4100.	0.	** 2050.	616.	.79	19.	86.4	F	17.2	4.9
12	3	2560.	656.	0.	4512.	656.	0.	3896.	5536.	64.	** 2560.	616.	.70	14.	90.8	F	12.8	5.9
13	3	1400.	0.	436.	4512.	0.	436.	3896.	5536.	64.	** 1400.	616.	.70	14.	90.8	F	23.3	5.9
14	2	1320.	0.	0.	4076.	0.	0.	3460.	4400.	0.	** 1320.	616.	.79	19.	93.4	F	12.5	4.9
15	3	540.	984.	1408.	5060.	984.	1361.	4444.	4892.	708.	** 540.	448.	.91	28.	53.0	F	12.8	3.5
16	2	1230.	0.	0.	3652.	0.	0.	3083.	4400.	0.	** 1230.	448.	.70	14.	108.8	F	15.0	5.9
17	2	890.	592.	0.	4244.	592.	0.	3675.	4396.	4.	** 890.	448.	.84	22.	84.4	F	18.3	4.3
18	3	4840.	192.	732.	4436.	192.	712.	3867.	5539.	61.	** 4840.	448.	.70	14.	91.7	F	12.7	5.9
19	2	530.	0.	0.	3704.	0.	0.	3155.	3800.	0.	** 530.	448.	.83	21.	73.8	F	18.2	4.4
20	2	1040.	744.	0.	4448.	744.	0.	3903.	4361.	39.	** 1040.	448.	.89	27.	73.3	F	19.7	3.6
21	3	2810.	976.	1220.	5424.	976.	1097.	4879.	4879.	721.	0.	0.	1.00	52.	31.5	E	30.3	2.3
22	2	1850.	0.	0.	4204.	0.	0.	3781.	4400.	0.	0.	0.	.86	59.	31.8	D	18.1	3.5
23	3	2390.	312.	192.	4516.	312.	174.	4093.	5519.	81.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1728.	4324.	0.	1500.	3920.	5572.	28.	0.	0.	.70	62.	21.1	C	17.2	4.8
25	2	1400.	0.	2596.	2596.	0.	2353.	2353.	3600.	0.	0.	0.	.65	62.	19.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 16.	89.0		13.2	5.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	638. VEH-HRS	723. PASS-HRS	5868. VEH-HRS	6642. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	54. VEH-HRS	61. PASS-HRS	393. VEH-HRS	445. PASS-HRS
OFF-RAMP DELAY =	146. VEH-HRS	165. PASS-HRS	1282. VEH-HRS	1452. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	838. VEH-HRS	949. PASS-HRS	7556. VEH-HRS	8554. PASS-HRS
TOTAL TRAV DISTANCE =	10164. VEH-MI.	11505. PASS-MI.	123649. VEH-MI.	139971. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		21. MPH.	
AVERAGE DENSITY =	89. VPMPL		67. VPMPL	
TOTAL FUEL =	843. GALLONS		9405. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		699. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	154.	53.60	20.30	0.31	1.92	0.33	2.56
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	154.	53.60	20.30	0.31	1.92	0.33	2.56
OFF-RAMP	11	OUTPUT POINT	593.	146.20	55.37	0.85	5.23	0.91	6.99

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3568.	168.	3568.	3568.	168.	2654.	4400.	0.	**12900.	914.	.60	11.	126.3	F	9.8	6.7
2	2	1970.	0.	0.	3400.	0.	0.	2486.	4100.	0.	** 1970.	914.	.61	11.	117.2	F	9.9	6.7
3	2	1830.	300.	152.	3700.	300.	152.	2786.	4100.	0.	** 1830.	914.	.68	13.	104.9	F	10.6	6.1
4	2	2010.	0.	0.	3548.	0.	0.	2634.	4100.	0.	** 2010.	914.	.64	12.	111.1	F	10.2	6.4
5	3	2445.	692.	376.	4240.	692.	376.	3326.	5474.	126.	** 2445.	914.	.61	11.	104.1	F	9.9	6.7
6	2	1890.	0.	0.	3864.	0.	0.	2950.	4100.	0.	** 1890.	914.	.72	15.	98.2	F	11.2	5.7
7	3	5320.	836.	780.	4700.	836.	780.	3786.	5600.	0.	** 5320.	914.	.68	13.	96.1	F	10.6	6.1
8	2	880.	0.	0.	3920.	0.	0.	3006.	3900.	0.	** 880.	894.	.77	18.	85.3	F	12.3	5.1
9	2	1125.	192.	0.	4112.	192.	0.	3198.	3900.	0.	** 1125.	702.	.82	21.	77.4	F	18.0	4.5
10	3	6320.	428.	372.	4540.	428.	355.	3626.	5591.	9.	** 6320.	702.	.65	12.	100.1	F	13.7	6.4
11	2	2050.	0.	0.	4168.	0.	0.	3271.	4100.	0.	** 2050.	702.	.80	19.	85.1	F	17.4	4.8
12	3	2560.	732.	0.	4900.	732.	0.	4003.	5532.	68.	** 2560.	702.	.72	15.	87.7	F	13.2	5.7
13	3	1400.	0.	456.	4900.	0.	438.	4003.	5532.	68.	** 1400.	702.	.72	15.	87.7	F	24.7	5.7
14	2	1320.	0.	0.	4444.	0.	0.	3565.	4400.	0.	** 1320.	702.	.81	20.	89.1	F	12.8	4.6
15	3	540.	860.	1308.	5304.	860.	1221.	4425.	4952.	648.	** 540.	527.	.89	27.	55.6	F	12.6	3.6
16	2	1230.	0.	0.	3996.	0.	0.	3204.	4400.	0.	** 1230.	527.	.73	15.	103.8	F	15.8	5.6
17	2	890.	520.	0.	4516.	520.	0.	3724.	4394.	6.	** 890.	527.	.85	23.	82.3	F	18.5	4.2
18	3	4840.	188.	688.	4704.	188.	649.	3912.	5545.	55.	** 4840.	527.	.71	14.	90.7	F	12.9	5.9
19	2	530.	0.	0.	4016.	0.	0.	3263.	3800.	0.	** 530.	527.	.86	23.	69.4	F	18.8	4.0
20	2	1040.	644.	0.	4660.	644.	0.	3907.	4365.	35.	** 1040.	458.	.90	27.	73.3	F	19.7	3.6
21	3	2810.	980.	1268.	5640.	980.	1099.	4887.	4887.	713.	0.	0.	1.00	52.	31.6	E	30.3	2.3
22	2	1850.	0.	0.	4372.	0.	0.	3788.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	276.	148.	4648.	276.	129.	4064.	5524.	76.	0.	0.	.74	62.	21.9	C	24.1	4.8
24	3	960.	0.	1860.	4500.	0.	1500.	3935.	5573.	27.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2640.	2640.	0.	2309.	2309.	3600.	0.	0.	0.	.64	62.	18.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 15.		91.1	13.2	5.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	651. VEH-HRS	737. PASS-HRS	6519. VEH-HRS	7380. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	48. VEH-HRS	54. PASS-HRS	441. VEH-HRS	499. PASS-HRS
OFF-RAMP DELAY =	152. VEH-HRS	172. PASS-HRS	1434. VEH-HRS	1624. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	851. VEH-HRS	964. PASS-HRS	8408. VEH-HRS	9518. PASS-HRS
TOTAL TRAV DISTANCE =	10020. VEH-MI.	11343. PASS-MI.	133670. VEH-MI.	151314. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		21. MPH.	
AVERAGE DENSITY =	91. VPMPL		69. VPMPL	
TOTAL FUEL =	836. GALLONS		10242. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		764. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	229.	47.81	18.11	0.28	1.71	0.30	2.29
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	229.	47.81	18.11	0.28	1.71	0.30	2.29
OFF-RAMP	11	OUTPUT POINT	625.	152.22	57.65	0.89	5.45	0.95	7.28

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3404.	180.	3404.	3404.	180.	2353.	4400.	0.	**12900.	1051.	.53	8.	138.6	F	8.5	7.7
2	2	1970.	0.	0.	3224.	0.	0.	2173.	4100.	0.	** 1970.	1051.	.53	8.	130.0	F	8.4	7.8
3	2	1830.	304.	160.	3528.	304.	160.	2477.	4100.	0.	** 1830.	1051.	.60	11.	117.6	F	9.8	6.7
4	2	2010.	0.	0.	3368.	0.	0.	2317.	4100.	0.	** 2010.	1051.	.57	9.	124.1	F	9.1	7.2
5	3	2445.	672.	328.	4040.	672.	328.	2989.	5532.	68.	** 2445.	1051.	.54	9.	115.4	F	8.6	7.6
6	2	1890.	0.	0.	3712.	0.	0.	2661.	4100.	0.	** 1890.	1051.	.65	12.	110.0	F	10.3	6.4
7	3	5320.	776.	788.	4488.	776.	788.	3437.	5600.	0.	** 5320.	1051.	.61	11.	105.6	F	9.9	6.7
8	2	880.	0.	0.	3700.	0.	0.	2649.	3900.	0.	** 880.	1051.	.68	13.	99.9	F	11.3	6.1
9	2	1125.	216.	0.	3916.	216.	0.	2865.	3900.	0.	** 1125.	1035.	.73	16.	91.0	F	15.9	5.6
10	3	6320.	520.	300.	4436.	520.	299.	3385.	5592.	8.	** 6320.	1035.	.61	11.	106.7	F	12.9	6.7
11	2	2050.	0.	0.	4136.	0.	0.	3086.	4100.	0.	** 2050.	1014.	.75	17.	92.7	F	16.3	5.3
12	3	2560.	692.	0.	4828.	692.	0.	3778.	5544.	56.	** 2560.	1014.	.68	13.	94.3	F	12.4	6.1
13	3	1400.	0.	392.	4828.	0.	389.	3778.	5544.	56.	** 1400.	1014.	.68	13.	94.3	F	21.8	6.1
14	2	1320.	0.	0.	4436.	0.	0.	3389.	4400.	0.	** 1320.	1011.	.77	18.	96.3	F	12.3	5.1
15	3	540.	880.	1400.	5316.	880.	1304.	4269.	4952.	648.	** 540.	683.	.86	24.	59.9	F	12.1	4.0
16	2	1230.	0.	0.	3916.	0.	0.	2965.	4400.	0.	** 1230.	683.	.67	13.	113.6	F	14.3	6.2
17	2	890.	532.	0.	4448.	532.	0.	3497.	4395.	5.	** 890.	683.	.80	19.	91.6	F	17.3	4.8
18	3	4840.	196.	592.	4644.	196.	558.	3693.	5551.	49.	** 4840.	683.	.67	13.	96.9	F	12.1	6.2
19	2	530.	0.	0.	4052.	0.	0.	3135.	3800.	0.	** 530.	665.	.82	21.	74.7	F	18.1	4.4
20	2	1040.	660.	0.	4712.	660.	0.	3795.	4364.	36.	** 1040.	569.	.87	24.	77.8	F	19.1	3.9
21	3	2810.	1024.	1296.	5736.	1024.	1089.	4819.	4819.	781.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4440.	0.	0.	3730.	4400.	0.	0.	0.	.85	60.	31.2	D	18.0	3.6
23	3	2390.	312.	188.	4752.	312.	160.	4042.	5517.	83.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1748.	4564.	0.	1500.	3882.	5570.	30.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	2816.	2816.	0.	2395.	2395.	3600.	0.	0.	0.	.67	62.	19.3	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 13. 99.2 12.2 6.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	708. VEH-HRS	802. PASS-HRS	7227. VEH-HRS	8181. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	61. VEH-HRS	70. PASS-HRS	502. VEH-HRS	568. PASS-HRS
OFF-RAMP DELAY =	156. VEH-HRS	176. PASS-HRS	1590. VEH-HRS	1800. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	925. VEH-HRS	1048. PASS-HRS	9333. VEH-HRS	10565. PASS-HRS
TOTAL TRAV DISTANCE =	9322. VEH-MI.	10552. PASS-MI.	142991. VEH-MI.	161866. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		20. MPH.	
AVERAGE DENSITY =	99. VPMPL		71. VPMPL	
TOTAL FUEL =	845. GALLONS		11087. GALLONS	
TOTAL EMISSIONS =	66. KILOGRAMS		831. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	263.	61.42	23.26	0.36	2.20	0.38	2.94
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	263.	61.42	23.26	0.36	2.20	0.38	2.94
OFF-RAMP	11	OUTPUT POINT	621.	155.77	59.00	0.91	5.57	0.97	7.45

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3224.	188.	3224.	3224.	188.	2453.	4400.	0.	**12900.	771.	.56	9.	134.5	F	8.9	7.3
2	2	1970.	0.	0.	3036.	0.	0.	2265.	4100.	0.	** 1970.	771.	.55	9.	126.2	F	8.8	7.4
3	2	1830.	352.	172.	3388.	352.	172.	2617.	4100.	0.	** 1830.	771.	.64	12.	111.8	F	10.2	6.5
4	2	2010.	0.	0.	3216.	0.	0.	2445.	4100.	0.	** 2010.	771.	.60	10.	118.8	F	9.8	6.8
5	3	2445.	692.	516.	3908.	692.	516.	3137.	5388.	212.	** 2445.	771.	.58	10.	106.2	F	9.6	6.9
6	2	1890.	0.	0.	3392.	0.	0.	2621.	4100.	0.	** 1890.	771.	.64	12.	111.6	F	10.2	6.5
7	3	5320.	768.	616.	4160.	768.	616.	3389.	5600.	0.	** 5320.	771.	.61	11.	106.9	F	9.9	6.7
8	2	880.	0.	0.	3544.	0.	0.	2773.	3900.	0.	** 880.	771.	.71	15.	94.8	F	11.8	5.8
9	2	1125.	228.	0.	3772.	228.	0.	3001.	3900.	0.	** 1125.	771.	.77	18.	85.5	F	16.7	5.1
10	3	6320.	576.	276.	4348.	576.	276.	3577.	5593.	7.	** 6320.	771.	.64	12.	101.5	F	13.5	6.5
11	2	2050.	0.	0.	4072.	0.	0.	3301.	4100.	0.	** 2050.	771.	.81	20.	83.9	F	17.6	4.7
12	3	2560.	620.	0.	4692.	620.	0.	3921.	5536.	64.	** 2560.	771.	.71	15.	90.1	F	12.9	5.8
13	3	1400.	0.	472.	4692.	0.	472.	3921.	5536.	64.	** 1400.	771.	.71	15.	90.1	F	23.6	5.8
14	2	1320.	0.	0.	4220.	0.	0.	3449.	4400.	0.	** 1320.	771.	.78	18.	93.8	F	12.5	5.0
15	3	540.	912.	1484.	5132.	912.	1432.	4361.	4952.	648.	** 540.	591.	.88	25.	57.3	F	12.4	3.7
16	2	1230.	0.	0.	3648.	0.	0.	2930.	4400.	0.	** 1230.	591.	.67	13.	115.1	F	14.1	6.2
17	2	890.	588.	0.	4236.	588.	0.	3518.	4396.	4.	** 890.	591.	.80	19.	90.8	F	17.5	4.7
18	3	4840.	252.	692.	4488.	252.	672.	3770.	5542.	58.	** 4840.	591.	.68	13.	94.4	F	12.4	6.1
19	2	530.	0.	0.	3796.	0.	0.	3097.	3800.	0.	** 530.	591.	.82	20.	76.2	F	17.9	4.5
20	2	1040.	692.	0.	4488.	692.	0.	3789.	4361.	39.	** 1040.	571.	.87	24.	77.8	F	19.1	3.9
21	3	2810.	1032.	1372.	5520.	1032.	1198.	4821.	4821.	779.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4148.	0.	0.	3623.	4400.	0.	0.	0.	.82	60.	29.9	D	17.8	3.9
23	3	2390.	280.	184.	4428.	280.	162.	3903.	5531.	69.	0.	0.	.71	62.	21.0	C	24.1	4.8
24	3	960.	0.	1704.	4244.	0.	1500.	3741.	5575.	25.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	2540.	2540.	0.	2239.	2239.	3600.	0.	0.	0.	.62	62.	18.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 14.		96.2	12.6	5.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	686. VEH-HRS	777. PASS-HRS	7913. VEH-HRS	8958. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	57. VEH-HRS	64. PASS-HRS	559. VEH-HRS	633. PASS-HRS
OFF-RAMP DELAY =	155. VEH-HRS	176. PASS-HRS	1746. VEH-HRS	1976. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	898. VEH-HRS	1017. PASS-HRS	10232. VEH-HRS	11582. PASS-HRS
TOTAL TRAV DISTANCE =	9516. VEH-MI.	10772. PASS-MI.	152507. VEH-MI.	172638. PASS-MI.
AVERAGE SYSTEM SPEED =	11. MPH.		19. MPH.	
AVERAGE DENSITY =	96. VPMPL		73. VPMPL	
TOTAL FUEL =	836. GALLONS		11923. GALLONS	
TOTAL EMISSIONS =	66. KILOGRAMS		897. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	193.	56.93	21.56	0.33	2.04	0.36	2.72
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	193.	56.93	21.56	0.33	2.04	0.36	2.72
OFF-RAMP	11	OUTPUT POINT	622.	155.43	58.87	0.90	5.56	0.97	7.44

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2740.	120.	2740.	2740.	120.	2701.	4400.	0.	**12900.	39.	.61	11.	124.4	F	9.9	6.7
2	2	1970.	0.	0.	2620.	0.	0.	2581.	4100.	0.	** 1970.	39.	.63	11.	113.3	F	10.1	6.5
3	2	1830.	308.	188.	2928.	308.	188.	2889.	4100.	0.	** 1830.	39.	.70	14.	100.7	F	11.0	5.9
4	2	2010.	0.	0.	2740.	0.	0.	2701.	4100.	0.	** 2010.	39.	.66	12.	108.4	F	10.4	6.3
5	3	2445.	576.	576.	3316.	576.	576.	3277.	5410.	190.	** 2445.	39.	.61	11.	103.2	F	9.9	6.7
6	2	1890.	0.	0.	2740.	0.	0.	2701.	4100.	0.	** 1890.	39.	.66	12.	108.4	F	10.4	6.3
7	3	5320.	704.	560.	3444.	704.	560.	3405.	5600.	0.	** 5320.	39.	.61	11.	106.5	F	9.9	6.7
8	2	880.	0.	0.	2884.	0.	0.	2845.	3900.	0.	** 880.	39.	.73	15.	91.9	F	12.0	5.6
9	2	1125.	200.	0.	3084.	200.	0.	3045.	3900.	0.	** 1125.	39.	.78	18.	83.7	F	16.9	5.0
10	3	6320.	508.	272.	3592.	508.	272.	3553.	5597.	3.	** 6320.	39.	.63	12.	102.3	F	13.4	6.5
11	2	2050.	0.	0.	3320.	0.	0.	3281.	4100.	0.	** 2050.	39.	.80	19.	84.7	F	17.5	4.7
12	3	2560.	620.	0.	3940.	620.	0.	3901.	5535.	65.	** 2560.	39.	.70	14.	90.6	F	12.8	5.9
13	3	1400.	0.	436.	3940.	0.	436.	3901.	5535.	65.	** 1400.	39.	.70	14.	90.6	F	23.3	5.9
14	2	1320.	0.	0.	3504.	0.	0.	3465.	4400.	0.	** 1320.	39.	.79	19.	93.2	F	12.5	4.9
15	3	540.	956.	1356.	4460.	956.	1356.	4421.	4936.	664.	** 540.	39.	.90	27.	55.2	F	12.6	3.6
16	2	1230.	0.	0.	3104.	0.	0.	3065.	4400.	0.	** 1230.	39.	.70	14.	109.5	F	14.9	6.0
17	2	890.	684.	0.	3788.	684.	0.	3749.	4400.	0.	** 890.	39.	.85	23.	81.6	F	18.7	4.1
18	3	4840.	288.	724.	4076.	288.	724.	4037.	5544.	56.	** 4840.	39.	.73	15.	87.3	F	13.2	5.6
19	2	530.	0.	0.	3352.	0.	0.	3313.	3800.	0.	** 530.	39.	.87	25.	67.4	F	19.2	3.8
20	2	1040.	608.	0.	3960.	608.	0.	3921.	4371.	29.	** 1040.	39.	.90	27.	73.0	F	19.8	3.6
21	3	2810.	988.	1264.	4948.	988.	1254.	4909.	4909.	691.	0.	0.	1.00	52.	31.7	E	30.3	2.3
22	2	1850.	0.	0.	3684.	0.	0.	3655.	4400.	0.	0.	0.	.83	60.	30.3	D	17.9	3.8
23	3	2390.	308.	176.	3992.	308.	175.	3963.	5532.	68.	0.	0.	.72	62.	21.3	C	24.1	4.8
24	3	960.	0.	1560.	3816.	0.	1500.	3788.	5578.	22.	0.	0.	.68	62.	20.4	C	17.2	4.8
25	2	1400.	0.	2256.	2256.	0.	2239.	2239.	3600.	0.	0.	0.	.62	62.	18.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 15.		91.9	13.0	5.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	659. VEH-HRS	746. PASS-HRS	8573. VEH-HRS	9704. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	25. VEH-HRS	29. PASS-HRS	584. VEH-HRS	661. PASS-HRS
OFF-RAMP DELAY =	157. VEH-HRS	178. PASS-HRS	1903. VEH-HRS	2154. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	842. VEH-HRS	953. PASS-HRS	11073. VEH-HRS	12535. PASS-HRS
TOTAL TRAV DISTANCE =	9880. VEH-MI.	11184. PASS-MI.	162387. VEH-MI.	183822. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		19. MPH.	
AVERAGE DENSITY =	92. VPMPL		74. VPMPL	
TOTAL FUEL =	827. GALLONS		12750. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		961. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	10.	25.31	9.58	0.15	0.91	0.16	1.21
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	10.	25.31	9.58	0.15	0.91	0.16	1.21
OFF-RAMP	11	OUTPUT POINT	634.	157.02	59.47	0.91	5.62	0.98	7.51

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2620.	88.	2620.	2620.	88.	2434.	4400.	0.	**12900.	186.	.55	9.	135.3	F	8.8	7.4
2	2	1970.	0.	0.	2532.	0.	0.	2346.	4100.	0.	** 1970.	186.	.57	10.	122.9	F	9.3	7.1
3	2	1830.	324.	212.	2856.	324.	212.	2670.	4100.	0.	** 1830.	186.	.65	12.	109.7	F	10.3	6.4
4	2	2010.	0.	0.	2644.	0.	0.	2458.	4100.	0.	** 2010.	186.	.60	10.	118.3	F	9.8	6.8
5	3	2445.	452.	420.	3096.	452.	420.	2910.	5600.	0.	** 2445.	186.	.52	8.	119.9	F	8.2	7.9
6	2	1890.	0.	0.	2676.	0.	0.	2490.	4100.	0.	** 1890.	186.	.61	11.	117.0	F	9.9	6.7
7	3	5320.	740.	516.	3416.	740.	516.	3230.	5600.	0.	** 5320.	186.	.58	10.	111.2	F	9.4	7.0
8	2	880.	0.	0.	2900.	0.	0.	2714.	3900.	0.	** 880.	186.	.70	14.	97.2	F	11.5	6.0
9	2	1125.	200.	0.	3100.	200.	0.	2914.	3900.	0.	** 1125.	186.	.75	16.	89.0	F	16.2	5.4
10	3	6320.	552.	320.	3652.	552.	320.	3466.	5597.	3.	** 6320.	186.	.62	11.	104.7	F	13.1	6.6
11	2	2050.	0.	0.	3332.	0.	0.	3146.	4100.	0.	** 2050.	186.	.77	17.	90.2	F	16.6	5.2
12	3	2560.	592.	0.	3924.	592.	0.	3738.	5536.	64.	** 2560.	186.	.68	13.	95.1	F	12.3	6.2
13	3	1400.	0.	416.	3924.	0.	416.	3738.	5536.	64.	** 1400.	186.	.68	13.	95.1	F	21.4	6.2
14	2	1320.	0.	0.	3508.	0.	0.	3322.	4400.	0.	** 1320.	186.	.75	17.	99.0	F	12.2	5.3
15	3	540.	932.	1204.	4440.	932.	1204.	4254.	4924.	676.	** 540.	186.	.86	24.	59.3	F	12.1	4.0
16	2	1230.	0.	0.	3236.	0.	0.	3050.	4400.	0.	** 1230.	186.	.69	14.	110.2	F	14.8	6.0
17	2	890.	700.	0.	3936.	700.	0.	3750.	4398.	2.	** 890.	186.	.85	23.	81.5	F	18.7	4.1
18	3	4840.	256.	668.	4192.	256.	668.	4006.	5543.	57.	** 4840.	186.	.72	15.	88.1	F	13.2	5.7
19	2	530.	0.	0.	3524.	0.	0.	3338.	3800.	0.	** 530.	186.	.88	25.	66.4	F	19.3	3.8
20	2	1040.	716.	0.	4240.	716.	0.	4054.	4363.	37.	** 1040.	186.	.93	30.	67.2	F	20.7	3.2
21	3	2810.	908.	1232.	5148.	908.	1187.	4962.	4962.	638.	0.	0.	1.00	52.	32.1	E	30.3	2.3
22	2	1850.	0.	0.	3916.	0.	0.	3774.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	276.	124.	4192.	276.	120.	4050.	5532.	68.	0.	0.	.73	62.	21.8	C	24.1	4.8
24	3	960.	0.	1824.	4068.	0.	1500.	3931.	5578.	22.	0.	0.	.70	62.	21.1	C	17.2	4.8
25	2	1400.	0.	2244.	2244.	0.	2168.	2168.	3600.	0.	0.	0.	.60	62.	17.5	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 14.	97.4		12.5	5.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	697. VEH-HRS	789. PASS-HRS	9270. VEH-HRS	10493. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	591. VEH-HRS	669. PASS-HRS
OFF-RAMP DELAY =	167. VEH-HRS	189. PASS-HRS	2069. VEH-HRS	2343. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	871. VEH-HRS	986. PASS-HRS	11944. VEH-HRS	13521. PASS-HRS
TOTAL TRAV DISTANCE =	9480. VEH-MI.	10732. PASS-MI.	171867. VEH-MI.	194553. PASS-MI.
AVERAGE SYSTEM SPEED =	11. MPH.		19. MPH.	
AVERAGE DENSITY =	97. VPMPL		75. VPMPL	
TOTAL FUEL =	826. GALLONS		13576. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		1025. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	47.	7.05	2.67	0.04	0.25	0.04	0.34
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	47.	7.05	2.67	0.04	0.25	0.04	0.34
OFF-RAMP	11	OUTPUT POINT	700.	166.74	63.15	0.97	5.97	1.04	7.98

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2388.	96.	2388.	2388.	96.	2215.	4400.	0.	**12900.	173.	.50	8.	144.3	F	7.9	8.1
2	2	1970.	0.	0.	2292.	0.	0.	2119.	4100.	0.	** 1970.	173.	.52	8.	132.2	F	8.1	8.0
3	2	1830.	344.	84.	2636.	344.	84.	2463.	4100.	0.	** 1830.	173.	.60	10.	118.1	F	9.8	6.8
4	2	2010.	0.	0.	2552.	0.	0.	2379.	4100.	0.	** 2010.	173.	.58	10.	121.6	F	9.5	7.0
5	3	2445.	636.	392.	3188.	636.	392.	3015.	5522.	78.	** 2445.	173.	.55	9.	114.3	F	8.7	7.5
6	2	1890.	0.	0.	2796.	0.	0.	2623.	4100.	0.	** 1890.	173.	.64	12.	111.6	F	10.2	6.5
7	3	5320.	676.	640.	3472.	676.	640.	3299.	5600.	0.	** 5320.	173.	.59	10.	109.3	F	9.7	6.8
8	2	880.	0.	0.	2832.	0.	0.	2659.	3900.	0.	** 880.	173.	.68	13.	99.5	F	11.3	6.1
9	2	1125.	192.	0.	3024.	192.	0.	2851.	3900.	0.	** 1125.	173.	.73	16.	91.6	F	15.8	5.6
10	3	6320.	608.	316.	3632.	608.	316.	3459.	5597.	3.	** 6320.	173.	.62	11.	104.9	F	13.1	6.6
11	2	2050.	0.	0.	3316.	0.	0.	3143.	4100.	0.	** 2050.	173.	.77	17.	90.3	F	16.6	5.2
12	3	2560.	620.	0.	3936.	620.	0.	3763.	5532.	68.	** 2560.	173.	.68	13.	94.3	F	12.4	6.1
13	3	1400.	0.	428.	3936.	0.	428.	3763.	5532.	68.	** 1400.	173.	.68	13.	94.3	F	21.7	6.1
14	2	1320.	0.	0.	3508.	0.	0.	3335.	4400.	0.	** 1320.	173.	.76	17.	98.5	F	12.2	5.3
15	3	540.	844.	1088.	4352.	844.	1088.	4179.	4968.	632.	** 540.	173.	.84	22.	62.9	F	11.8	4.2
16	2	1230.	0.	0.	3264.	0.	0.	3091.	4400.	0.	** 1230.	173.	.70	14.	108.5	F	15.1	5.9
17	2	890.	692.	0.	3956.	692.	0.	3783.	4398.	2.	** 890.	173.	.86	24.	80.1	F	18.9	4.0
18	3	4840.	248.	688.	4204.	248.	688.	4031.	5543.	57.	** 4840.	173.	.73	15.	87.4	F	13.2	5.6
19	2	530.	0.	0.	3516.	0.	0.	3343.	3800.	0.	** 530.	173.	.88	25.	66.2	F	19.4	3.7
20	2	1040.	684.	0.	4200.	684.	0.	4027.	4366.	34.	** 1040.	173.	.92	29.	68.4	F	20.5	3.3
21	3	2810.	928.	1172.	5128.	928.	1132.	4955.	4955.	645.	0.	0.	1.00	52.	32.0	E	30.3	2.3
22	2	1850.	0.	0.	3956.	0.	0.	3822.	4400.	0.	0.	0.	.87	59.	32.3	D	18.2	3.4
23	3	2390.	292.	112.	4248.	292.	109.	4114.	5525.	75.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	1792.	4136.	0.	1500.	4006.	5575.	25.	0.	0.	.72	62.	21.5	C	17.2	4.8
25	2	1400.	0.	2344.	2344.	0.	2270.	2270.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 13.	99.4		12.3	5.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	708. VEH-HRS	801. PASS-HRS	9977. VEH-HRS	11294. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	11. VEH-HRS	13. PASS-HRS	603. VEH-HRS	682. PASS-HRS
OFF-RAMP DELAY =	182. VEH-HRS	206. PASS-HRS	2252. VEH-HRS	2549. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	901. VEH-HRS	1020. PASS-HRS	12845. VEH-HRS	14541. PASS-HRS
TOTAL TRAV DISTANCE =	9366. VEH-MI.	10602. PASS-MI.	181233. VEH-MI.	205155. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		18. MPH.	
AVERAGE DENSITY =	99. VPMPL		77. VPMPL	
TOTAL FUEL =	836. GALLONS		14411. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1090. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	43.	11.23	4.25	0.07	0.40	0.07	0.54
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	43.	11.23	4.25	0.07	0.40	0.07	0.54
OFF-RAMP	11	OUTPUT POINT	759.	182.30	69.05	1.06	6.52	1.14	8.72

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2468.	116.	2468.	2468.	116.	2336.	4400.	0.	**12900.	132.	.53	8.	139.3	F	8.4	7.8
2	2	1970.	0.	0.	2352.	0.	0.	2220.	4100.	0.	** 1970.	132.	.54	9.	128.0	F	8.6	7.6
3	2	1830.	408.	112.	2760.	408.	112.	2628.	4100.	0.	** 1830.	132.	.64	12.	111.4	F	10.2	6.5
4	2	2010.	0.	0.	2648.	0.	0.	2516.	4100.	0.	** 2010.	132.	.61	11.	115.9	F	9.9	6.7
5	3	2445.	528.	360.	3176.	528.	360.	3044.	5585.	15.	** 2445.	132.	.55	9.	115.7	F	8.7	7.5
6	2	1890.	0.	0.	2816.	0.	0.	2684.	4100.	0.	** 1890.	132.	.65	12.	109.1	F	10.3	6.3
7	3	5320.	772.	704.	3588.	772.	704.	3456.	5600.	0.	** 5320.	132.	.62	11.	105.0	F	10.0	6.6
8	2	880.	0.	0.	2884.	0.	0.	2752.	3900.	0.	** 880.	132.	.71	14.	95.6	F	11.7	5.9
9	2	1125.	204.	0.	3088.	204.	0.	2956.	3900.	0.	** 1125.	132.	.76	17.	87.3	F	16.4	5.3
10	3	6320.	512.	348.	3600.	512.	348.	3468.	5597.	3.	** 6320.	132.	.62	11.	104.6	F	13.1	6.6
11	2	2050.	0.	0.	3252.	0.	0.	3120.	4100.	0.	** 2050.	132.	.76	17.	91.3	F	16.5	5.2
12	3	2560.	788.	0.	4040.	788.	0.	3908.	5520.	80.	** 2560.	132.	.71	14.	89.9	F	12.9	5.8
13	3	1400.	0.	428.	4040.	0.	428.	3908.	5520.	80.	** 1400.	132.	.71	14.	89.9	F	23.6	5.8
14	2	1320.	0.	0.	3612.	0.	0.	3480.	4400.	0.	** 1320.	132.	.79	19.	92.6	F	12.5	4.9
15	3	540.	816.	1308.	4428.	816.	1308.	4296.	5024.	576.	** 540.	132.	.86	23.	61.7	F	12.0	4.1
16	2	1230.	0.	0.	3120.	0.	0.	2988.	4400.	0.	** 1230.	132.	.68	13.	112.7	F	14.4	6.1
17	2	890.	688.	0.	3808.	688.	0.	3676.	4400.	0.	** 890.	132.	.84	22.	84.6	F	18.3	4.3
18	3	4840.	272.	732.	4080.	272.	732.	3948.	5542.	58.	** 4840.	132.	.71	15.	89.6	F	13.0	5.8
19	2	530.	0.	0.	3348.	0.	0.	3216.	3800.	0.	** 530.	132.	.85	23.	71.3	F	18.5	4.2
20	2	1040.	660.	0.	4008.	660.	0.	3876.	4367.	33.	** 1040.	132.	.89	26.	74.6	F	19.5	3.7
21	3	2810.	1008.	1244.	5016.	1008.	1211.	4884.	4884.	716.	0.	0.	1.00	52.	31.6	E	30.3	2.3
22	2	1850.	0.	0.	3772.	0.	0.	3673.	4400.	0.	0.	0.	.83	60.	30.5	D	17.9	3.7
23	3	2390.	264.	168.	4036.	264.	164.	3937.	5539.	61.	0.	0.	.71	62.	21.2	C	24.1	4.8
24	3	960.	0.	1552.	3868.	0.	1500.	3773.	5580.	20.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	2316.	2316.	0.	2259.	2259.	3600.	0.	0.	0.	.63	62.	18.2	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 14.	97.3		12.4	5.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	693. VEH-HRS	785. PASS-HRS	10671. VEH-HRS	12079. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	10. VEH-HRS	11. PASS-HRS	612. VEH-HRS	693. PASS-HRS
OFF-RAMP DELAY =	190. VEH-HRS	215. PASS-HRS	2442. VEH-HRS	2764. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	893. VEH-HRS	1011. PASS-HRS	13738. VEH-HRS	15551. PASS-HRS
TOTAL TRAV DISTANCE =	9481. VEH-MI.	10733. PASS-MI.	190714. VEH-MI.	215888. PASS-MI.
AVERAGE SYSTEM SPEED =	11. MPH.		18. MPH.	
AVERAGE DENSITY =	97. VPMPL		78. VPMPL	
TOTAL FUEL =	839. GALLONS		15250. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1155. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	33.	9.53	3.61	0.06	0.34	0.06	0.46
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	33.	9.53	3.61	0.06	0.34	0.06	0.46
OFF-RAMP	11	OUTPUT POINT	762.	190.09	72.00	1.11	6.80	1.19	9.09

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1944.	96.	1944.	1944.	96.	1983.	4400.	0.	* 12752.	-39.	.45	6.	153.1	F	7.3	8.8
2	2	1970.	0.	0.	1848.	0.	0.	1887.	4100.	0.	** 1970.	-39.	.46	7.	141.7	F	7.4	8.7
3	2	1830.	376.	92.	2224.	376.	92.	2263.	4100.	0.	** 1830.	-39.	.55	9.	126.3	F	8.8	7.4
4	2	2010.	0.	0.	2132.	0.	0.	2171.	4100.	0.	** 2010.	-39.	.53	8.	130.1	F	8.4	7.8
5	3	2445.	536.	356.	2668.	536.	356.	2707.	5600.	0.	** 2445.	-39.	.48	7.	125.5	F	7.7	8.4
6	2	1890.	0.	0.	2312.	0.	0.	2351.	4100.	0.	** 1890.	-39.	.57	10.	122.7	F	9.3	7.1
7	3	5320.	816.	576.	3128.	816.	576.	3167.	5600.	0.	** 5320.	-39.	.57	9.	112.9	F	9.1	7.2
8	2	880.	0.	0.	2552.	0.	0.	2591.	3900.	0.	** 880.	-39.	.66	13.	102.2	F	11.1	6.3
9	2	1125.	236.	0.	2788.	236.	0.	2827.	3900.	0.	** 1125.	-39.	.72	15.	92.6	F	15.7	5.7
10	3	6320.	624.	332.	3412.	624.	332.	3451.	5599.	1.	** 6320.	-39.	.62	11.	105.2	F	13.1	6.6
11	2	2050.	0.	0.	3080.	0.	0.	3119.	4100.	0.	** 2050.	-39.	.76	17.	91.3	F	16.4	5.2
12	3	2560.	1008.	0.	4088.	1008.	0.	4127.	5505.	95.	** 2560.	-39.	.75	16.	83.4	F	13.4	5.4
13	3	1400.	0.	412.	4088.	0.	412.	4127.	5505.	95.	** 1400.	-39.	.75	16.	83.4	F	26.3	5.4
14	2	1320.	0.	0.	3676.	0.	0.	3715.	4400.	0.	** 1320.	-39.	.84	22.	83.0	F	13.2	4.2
15	3	540.	820.	1292.	4496.	820.	1292.	4535.	5016.	584.	** 540.	-39.	.90	28.	54.9	F	12.8	3.5
16	2	1230.	0.	0.	3204.	0.	0.	3243.	4400.	0.	** 1230.	-39.	.74	16.	102.3	F	15.9	5.5
17	2	890.	676.	0.	3880.	676.	0.	3919.	4399.	1.	** 890.	-39.	.89	26.	74.6	F	19.6	3.6
18	3	4840.	292.	692.	4172.	292.	692.	4211.	5543.	57.	** 4840.	-39.	.76	17.	82.5	F	13.6	5.3
19	2	530.	0.	0.	3480.	0.	0.	3519.	3800.	0.	** 530.	-39.	.93	30.	59.0	F	20.6	3.2
20	2	1040.	532.	0.	4012.	532.	0.	4051.	4376.	24.	** 1040.	-39.	.93	30.	68.0	F	20.6	3.3
21	3	2810.	948.	1056.	4960.	948.	1064.	4999.	4999.	601.	0.	0.	1.00	52.	32.3	E	30.3	2.3
22	2	1850.	0.	0.	3904.	0.	0.	3934.	4400.	0.	0.	0.	.89	58.	33.9	D	18.5	3.1
23	3	2390.	292.	152.	4196.	292.	153.	4226.	5535.	65.	0.	0.	.76	62.	22.7	C	24.1	4.8
24	3	960.	0.	1392.	4044.	0.	1500.	4073.	5578.	22.	0.	0.	.73	62.	21.9	C	17.2	4.8
25	2	1400.	0.	2652.	2652.	0.	2671.	2671.	3600.	0.	0.	0.	.74	62.	21.5	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 13. 101.7 12.1 5.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	720. VEH-HRS	815. PASS-HRS	11391. VEH-HRS	12894. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	4. VEH-HRS	5. PASS-HRS	616. VEH-HRS	697. PASS-HRS
OFF-RAMP DELAY =	187. VEH-HRS	212. PASS-HRS	2629. VEH-HRS	2976. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	912. VEH-HRS	1032. PASS-HRS	14650. VEH-HRS	16583. PASS-HRS
TOTAL TRAV DISTANCE =	9284. VEH-MI.	10509. PASS-MI.	199998. VEH-MI.	226397. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		18. MPH.	
AVERAGE DENSITY =	102. VPMPL		79. VPMPL	
TOTAL FUEL =	837. GALLONS		16087. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		1219. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	0.	4.12	1.56	0.02	0.15	0.03	0.20
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	4.12	1.56	0.02	0.15	0.03	0.20
OFF-RAMP	11	OUTPUT POINT	738.	187.47	71.00	1.09	6.71	1.17	8.97

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2856.	72.	2856.	2856.	72.	2016.	4400.	0.	**12900.	840.	.46	7.	152.4	F	7.3	8.7
2	2	1970.	0.	0.	2784.	0.	0.	1944.	4100.	0.	** 1970.	840.	.47	7.	139.3	F	7.5	8.5
3	2	1830.	392.	140.	3176.	392.	140.	2336.	4100.	0.	** 1830.	840.	.57	9.	123.3	F	9.2	7.2
4	2	2010.	0.	0.	3036.	0.	0.	2196.	4100.	0.	** 2010.	840.	.54	9.	129.0	F	8.5	7.7
5	3	2445.	532.	448.	3568.	532.	448.	2728.	5524.	76.	** 2445.	840.	.49	7.	122.2	F	7.8	8.3
6	2	1890.	0.	0.	3120.	0.	0.	2280.	4100.	0.	** 1890.	840.	.56	9.	125.6	F	8.9	7.4
7	3	5320.	776.	580.	3896.	776.	580.	3056.	5600.	0.	** 5320.	840.	.55	9.	116.0	F	8.7	7.5
8	2	880.	0.	0.	3316.	0.	0.	2476.	3900.	0.	** 880.	840.	.63	12.	106.9	F	10.7	6.5
9	2	1125.	232.	0.	3548.	232.	0.	2708.	3900.	0.	** 1125.	840.	.69	14.	97.5	F	14.8	6.0
10	3	6320.	584.	292.	4132.	584.	292.	3292.	5594.	6.	** 6320.	840.	.59	10.	109.3	F	12.6	6.9
11	2	2050.	0.	0.	3840.	0.	0.	3000.	4100.	0.	** 2050.	840.	.73	16.	96.2	F	15.8	5.6
12	3	2560.	884.	0.	4724.	884.	0.	3884.	5516.	84.	** 2560.	840.	.70	14.	90.4	F	12.8	5.9
13	3	1400.	0.	456.	4724.	0.	456.	3884.	5516.	84.	** 1400.	840.	.70	14.	90.4	F	23.3	5.9
14	2	1320.	0.	0.	4268.	0.	0.	3428.	4400.	0.	** 1320.	840.	.78	18.	94.7	F	12.4	5.0
15	3	540.	900.	1304.	5168.	900.	1243.	4328.	4928.	672.	** 540.	600.	.88	25.	57.4	F	12.4	3.8
16	2	1230.	0.	0.	3864.	0.	0.	3084.	4400.	0.	** 1230.	600.	.70	14.	108.8	F	15.0	5.9
17	2	890.	756.	0.	4620.	756.	0.	3840.	4393.	7.	** 890.	553.	.87	25.	77.5	F	19.2	3.8
18	3	4840.	280.	780.	4900.	280.	744.	4120.	5519.	81.	** 4840.	553.	.75	16.	84.1	F	13.4	5.4
19	2	530.	0.	0.	4120.	0.	0.	3376.	3800.	0.	** 530.	424.	.89	26.	64.8	F	19.6	3.7
20	2	1040.	560.	0.	4680.	560.	0.	3936.	4371.	29.	** 1040.	424.	.90	27.	72.4	F	19.9	3.5
21	3	2810.	988.	1124.	5668.	988.	977.	4924.	4924.	676.	0.	0.	1.00	52.	31.8	E	30.3	2.3
22	2	1850.	0.	0.	4544.	0.	0.	3947.	4400.	0.	0.	0.	.90	58.	34.1	D	18.5	3.1
23	3	2390.	272.	128.	4816.	272.	112.	4219.	5537.	63.	0.	0.	.76	62.	22.7	C	24.1	4.8
24	3	960.	0.	1584.	4688.	0.	1500.	4107.	5576.	24.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	3104.	3104.	0.	2720.	2720.	3600.	0.	0.	0.	.76	62.	21.9	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 12.	103.4		11.9	6.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	734. VEH-HRS	830. PASS-HRS	12124. VEH-HRS	13724. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	26. VEH-HRS	30. PASS-HRS	642. VEH-HRS	727. PASS-HRS
OFF-RAMP DELAY =	181. VEH-HRS	205. PASS-HRS	2810. VEH-HRS	3181. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	941. VEH-HRS	1065. PASS-HRS	15590. VEH-HRS	17648. PASS-HRS
TOTAL TRAV DISTANCE =	9099. VEH-MI.	10300. PASS-MI.	209097. VEH-MI.	236698. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		17. MPH.	
AVERAGE DENSITY =	103. VPMPL		80. VPMPL	
TOTAL FUEL =	844. GALLONS		16931. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1284. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	210.	26.26	9.95	0.15	0.94	0.16	1.26
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	210.	26.26	9.95	0.15	0.94	0.16	1.26
OFF-RAMP	11	OUTPUT POINT	710.	180.90	68.52	1.05	6.47	1.13	8.65

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2640.	52.	2640.	2640.	52.	1720.	4400.	0.	**12900.	920.	.39	5.	164.5	F	6.7	9.5
2	2	1970.	0.	0.	2588.	0.	0.	1668.	4100.	0.	** 1970.	920.	.41	6.	150.6	F	6.9	9.3
3	2	1830.	476.	96.	3064.	476.	96.	2144.	4100.	0.	** 1830.	920.	.52	8.	131.2	F	8.2	7.9
4	2	2010.	0.	0.	2968.	0.	0.	2048.	4100.	0.	** 2010.	920.	.50	8.	135.1	F	7.9	8.2
5	3	2445.	608.	412.	3576.	608.	412.	2656.	5515.	85.	** 2445.	920.	.48	7.	123.8	F	7.6	8.4
6	2	1890.	0.	0.	3164.	0.	0.	2244.	4100.	0.	** 1890.	920.	.55	9.	127.1	F	8.7	7.5
7	3	5320.	728.	496.	3892.	728.	496.	2972.	5600.	0.	** 5320.	920.	.53	8.	118.2	F	8.4	7.8
8	2	880.	0.	0.	3396.	0.	0.	2476.	3900.	0.	** 880.	920.	.63	12.	106.9	F	10.7	6.5
9	2	1125.	216.	0.	3612.	216.	0.	2692.	3900.	0.	** 1125.	920.	.69	14.	98.1	F	14.7	6.0
10	3	6320.	536.	312.	4148.	536.	312.	3228.	5594.	6.	** 6320.	920.	.58	10.	111.0	F	12.1	7.0
11	2	2050.	0.	0.	3836.	0.	0.	2916.	4100.	0.	** 2050.	920.	.71	15.	99.6	F	15.3	5.8
12	3	2560.	684.	0.	4520.	684.	0.	3600.	5536.	64.	** 2560.	920.	.65	12.	98.9	F	11.9	6.4
13	3	1400.	0.	432.	4520.	0.	432.	3600.	5536.	64.	** 1400.	920.	.65	12.	98.9	F	20.1	6.4
14	2	1320.	0.	0.	4088.	0.	0.	3168.	4400.	0.	** 1320.	920.	.72	15.	105.3	F	11.9	5.7
15	3	540.	932.	1244.	5020.	932.	1214.	4100.	4900.	700.	** 540.	800.	.84	22.	62.6	F	11.7	4.3
16	2	1230.	0.	0.	3776.	0.	0.	2886.	4400.	0.	** 1230.	800.	.66	12.	116.9	F	13.8	6.3
17	2	890.	740.	0.	4516.	740.	0.	3626.	4394.	6.	** 890.	769.	.83	21.	86.3	F	18.1	4.4
18	3	4840.	296.	608.	4812.	296.	592.	3922.	5538.	62.	** 4840.	769.	.71	14.	90.2	F	12.9	5.8
19	2	530.	0.	0.	4204.	0.	0.	3329.	3800.	0.	** 530.	471.	.88	25.	66.7	F	19.3	3.8
20	2	1040.	556.	0.	4760.	556.	0.	3885.	4372.	28.	** 1040.	471.	.89	26.	74.6	F	19.6	3.7
21	3	2810.	996.	1132.	5756.	996.	960.	4881.	4881.	719.	0.	0.	1.00	52.	31.6	E	30.3	2.3
22	2	1850.	0.	0.	4624.	0.	0.	3921.	4400.	0.	0.	0.	.89	58.	33.7	D	18.4	3.2
23	3	2390.	296.	132.	4920.	296.	113.	4217.	5540.	60.	0.	0.	.76	62.	22.7	C	24.1	4.8
24	3	960.	0.	1404.	4788.	0.	1500.	4104.	5576.	24.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	3384.	3384.	0.	2901.	2901.	3600.	0.	0.	0.	.81	62.	23.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 11.	108.9		11.5	6.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	770. VEH-HRS	872. PASS-HRS	12894. VEH-HRS	14596. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	55. VEH-HRS	62. PASS-HRS	697. VEH-HRS	790. PASS-HRS
OFF-RAMP DELAY =	168. VEH-HRS	190. PASS-HRS	2978. VEH-HRS	3371. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	994. VEH-HRS	1125. PASS-HRS	16584. VEH-HRS	18773. PASS-HRS
TOTAL TRAV DISTANCE =	8661. VEH-MI.	9804. PASS-MI.	217758. VEH-MI.	246502. PASS-MI.
AVERAGE SYSTEM SPEED =	9. MPH.		17. MPH.	
AVERAGE DENSITY =	109. VPMPL		81. VPMPL	
TOTAL FUEL =	839. GALLONS		17770. GALLONS	
TOTAL EMISSIONS =	66. KILOGRAMS		1350. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	230.	55.02	20.84	0.32	1.97	0.34	2.63
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	230.	55.02	20.84	0.32	1.97	0.34	2.63
OFF-RAMP	11	OUTPUT POINT	635.	168.12	63.67	0.98	6.02	1.05	8.04

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2656.	68.	2656.	2656.	68.	1958.	4400.	0.	**12900.	698.	.44	6.	154.8	F	7.2	8.9
2	2	1970.	0.	0.	2588.	0.	0.	1890.	4100.	0.	** 1970.	698.	.46	7.	141.5	F	7.4	8.7
3	2	1830.	584.	196.	3172.	584.	196.	2474.	4060.	40.	** 1830.	698.	.61	11.	115.5	F	9.9	6.7
4	2	2010.	0.	0.	2976.	0.	0.	2278.	4100.	0.	** 2010.	698.	.56	9.	125.7	F	8.9	7.4
5	3	2445.	608.	472.	3584.	608.	472.	2886.	5463.	137.	** 2445.	698.	.53	8.	115.7	F	8.3	7.8
6	2	1890.	0.	0.	3112.	0.	0.	2414.	4100.	0.	** 1890.	698.	.59	10.	120.1	F	9.7	6.9
7	3	5320.	796.	544.	3908.	796.	544.	3210.	5600.	0.	** 5320.	698.	.57	10.	111.8	F	9.3	7.1
8	2	880.	0.	0.	3364.	0.	0.	2666.	3900.	0.	** 880.	698.	.68	13.	99.2	F	11.3	6.1
9	2	1125.	208.	0.	3572.	208.	0.	2874.	3900.	0.	** 1125.	698.	.74	16.	90.7	F	15.9	5.5
10	3	6320.	600.	352.	4172.	600.	352.	3474.	5594.	6.	** 6320.	698.	.62	11.	104.4	F	13.1	6.6
11	2	2050.	0.	0.	3820.	0.	0.	3122.	4100.	0.	** 2050.	698.	.76	17.	91.2	F	16.5	5.2
12	3	2560.	676.	0.	4496.	676.	0.	3798.	5528.	72.	** 2560.	698.	.69	14.	93.2	F	12.5	6.0
13	3	1400.	0.	484.	4496.	0.	484.	3798.	5528.	72.	** 1400.	698.	.69	14.	93.2	F	22.2	6.0
14	2	1320.	0.	0.	4012.	0.	0.	3314.	4400.	0.	** 1320.	698.	.75	17.	99.4	F	12.2	5.3
15	3	540.	900.	1300.	4912.	900.	1300.	4214.	4940.	660.	** 540.	698.	.85	23.	60.9	F	12.0	4.1
16	2	1230.	0.	0.	3612.	0.	0.	2914.	4400.	0.	** 1230.	698.	.66	13.	115.7	F	14.0	6.3
17	2	890.	740.	0.	4352.	740.	0.	3654.	4395.	5.	** 890.	698.	.83	21.	85.2	F	18.2	4.3
18	3	4840.	296.	708.	4648.	296.	708.	3950.	5529.	71.	** 4840.	698.	.71	15.	89.1	F	13.1	5.8
19	2	530.	0.	0.	3940.	0.	0.	3242.	3800.	0.	** 530.	558.	.85	23.	70.3	F	18.7	4.1
20	2	1040.	580.	0.	4520.	580.	0.	3822.	4367.	33.	** 1040.	545.	.88	25.	76.9	F	19.3	3.8
21	3	2810.	1016.	1280.	5536.	1016.	1119.	4838.	4838.	762.	0.	0.	1.00	52.	31.3	E	30.3	2.3
22	2	1850.	0.	0.	4256.	0.	0.	3719.	4400.	0.	0.	0.	.85	60.	31.0	D	18.0	3.6
23	3	2390.	248.	176.	4504.	248.	154.	3967.	5540.	60.	0.	0.	.72	62.	21.3	C	24.1	4.8
24	3	960.	0.	1496.	4328.	0.	1500.	3813.	5578.	22.	0.	0.	.68	62.	20.5	C	17.2	4.8
25	2	1400.	0.	2832.	2832.	0.	2495.	2495.	3600.	0.	0.	0.	.69	62.	20.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 12.	102.8		12.0	6.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	728. VEH-HRS	824. PASS-HRS	13622. VEH-HRS	15421. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	14. VEH-HRS	15. PASS-HRS
ON-RAMP MRG/CAP DELAY =	51. VEH-HRS	57. PASS-HRS	748. VEH-HRS	847. PASS-HRS
OFF-RAMP DELAY =	153. VEH-HRS	173. PASS-HRS	3131. VEH-HRS	3545. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	932. VEH-HRS	1055. PASS-HRS	17516. VEH-HRS	19828. PASS-HRS
TOTAL TRAV DISTANCE =	9051. VEH-MI.	10245. PASS-MI.	226808. VEH-MI.	256747. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		17. MPH.	
AVERAGE DENSITY =	103. VPMPL		82. VPMPL	
TOTAL FUEL =	834. GALLONS		18603. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1415. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	175.	50.57	19.15	0.29	1.81	0.32	2.42
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	175.	50.57	19.15	0.29	1.81	0.32	2.42
OFF-RAMP	11	OUTPUT POINT	590.	153.16	58.01	0.89	5.48	0.96	7.33

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	152.	172.	15.	17.	167.	189.	9362.	10597.	56.2	568.	2.	30.	12.	6:00
2	191.	216.	43.	49.	234.	265.	11360.	12859.	48.5	692.	2.	34.	14.	6:15
3	253.	286.	69.	78.	322.	364.	12262.	13880.	38.1	755.	3.	32.	14.	6:30
4	326.	369.	122.	139.	448.	508.	11688.	13230.	26.1	783.	4.	38.	13.	6:45
5	388.	439.	154.	174.	542.	613.	11227.	12709.	20.7	788.	4.	41.	13.	7:00
6	459.	520.	145.	164.	604.	684.	10992.	12443.	18.2	795.	4.	41.	13.	7:15
7	525.	595.	162.	183.	687.	777.	10725.	12140.	15.6	818.	5.	44.	12.	7:30
8	603.	682.	150.	170.	753.	852.	10315.	11677.	13.7	831.	6.	45.	11.	7:45
9	799.	904.	180.	204.	979.	1108.	8253.	9343.	8.4	833.	7.	47.	10.	8:00
10	777.	880.	229.	259.	1006.	1139.	8575.	9706.	8.5	855.	7.	49.	11.	8:15
11	757.	857.	220.	249.	977.	1106.	8727.	9879.	8.9	845.	7.	48.	11.	8:30
12	638.	723.	200.	226.	838.	949.	10164.	11505.	12.1	843.	6.	48.	12.	8:45
13	651.	737.	200.	226.	851.	964.	10020.	11343.	11.8	836.	6.	47.	12.	9:00
14	708.	802.	217.	246.	925.	1048.	9322.	10552.	10.1	845.	7.	48.	11.	9:15
15	686.	777.	212.	240.	898.	1017.	9516.	10772.	10.6	836.	6.	48.	11.	9:30
16	659.	746.	182.	206.	842.	953.	9880.	11184.	11.7	827.	6.	47.	11.	9:45
17	697.	789.	174.	197.	871.	986.	9480.	10732.	10.9	826.	6.	47.	11.	10:00
18	708.	801.	194.	219.	901.	1020.	9366.	10602.	10.4	836.	6.	47.	11.	10:15
19	693.	785.	200.	226.	893.	1011.	9481.	10733.	10.6	839.	6.	48.	11.	10:30
20	720.	815.	192.	217.	912.	1032.	9284.	10509.	10.2	837.	6.	47.	11.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	734.	830.	207.	235.	941.	1065.	9099.	10300.	9.7	844.	7.	48.	11.	11:00
22	770.	872.	223.	253.	994.	1125.	8661.	9804.	8.7	839.	7.	48.	11.	11:15
23	728.	824.	204.	231.	932.	1055.	9051.	10245.	9.7	834.	7.	48.	11.	11:30
TOTAL	13622.	15421.	3893.	4407.	17516.	19828.	226808.	256747.	16.6	18603.	126.	1018.	271.	

Opening Year (2025) Final Build
(Aux Lanes and BOS)
Northbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2864.	84.	2864.	2864.	84.	2864.	4100.	0.	0.	0.	.70	62.	23.1	C	13.6	4.8
2	2	1970.	0.	0.	2780.	0.	0.	2780.	4100.	0.	0.	0.	.68	62.	22.4	C	13.6	4.8
3	2	1830.	244.	116.	3024.	244.	116.	3024.	4100.	0.	0.	0.	.74	62.	24.4	C	13.6	4.8
4	2	2010.	0.	0.	2908.	0.	0.	2908.	4400.	0.	0.	0.	.66	62.	23.5	C	13.6	4.8
5	3	2445.	756.	408.	3664.	756.	408.	3664.	5438.	162.	0.	0.	.67	62.	19.7	C	13.6	4.8
6	2	1890.	0.	0.	3256.	0.	0.	3256.	4400.	0.	0.	0.	.74	62.	26.4	D	13.6	4.7
7	3	5320.	520.	696.	3776.	520.	696.	3776.	5600.	0.	0.	0.	.67	62.	20.3	C	13.6	4.8
8	2	880.	0.	0.	3080.	0.	0.	3080.	4400.	0.	0.	0.	.70	62.	24.9	C	14.9	4.8
9	2	1125.	216.	0.	3296.	216.	0.	3296.	4400.	0.	0.	0.	.75	62.	26.7	D	20.1	4.6
10	3	6320.	572.	368.	3868.	572.	368.	3868.	5595.	5.	0.	0.	.69	62.	20.8	C	19.9	4.8
11	2	2050.	0.	0.	3500.	0.	0.	3500.	4100.	0.	0.	0.	.85	60.	29.3	D	21.0	3.5
12	3	2560.	1256.	0.	4756.	1256.	0.	4756.	5496.	104.	0.	0.	.87	59.	26.8	D	18.2	3.4
13	3	1400.	0.	392.	4756.	0.	392.	4756.	5496.	104.	0.	0.	.87	59.	26.8	D	34.7	3.4
14	2	1320.	0.	0.	4364.	0.	0.	4348.	4400.	0.	* 689.	16.	.99	48.	45.7	F	16.5	2.4
15	3	540.	724.	1380.	5088.	724.	1376.	5072.	5072.	528.	0.	0.	1.00	52.	32.8	E	14.5	2.3
16	2	1230.	0.	0.	3708.	0.	0.	3696.	4400.	0.	0.	0.	.84	60.	30.8	D	20.9	3.6
17	2	890.	688.	0.	4396.	688.	0.	4384.	4395.	5.	0.	0.	.99	52.	42.4	E	23.0	2.3
18	3	4840.	284.	796.	4680.	284.	794.	4594.	5527.	73.	* 719.	74.	.83	53.	28.9	F	17.7	3.7
19	2	530.	0.	0.	3884.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	368.	0.	4252.	368.	0.	4168.	4384.	16.	0.	0.	.95	55.	37.8	E	22.3	2.4
21	3	2810.	504.	824.	4756.	504.	809.	4672.	5491.	109.	0.	0.	.85	60.	26.1	D	25.5	3.6
22	2	1850.	0.	0.	3932.	0.	0.	3863.	4400.	0.	0.	0.	.88	59.	32.9	D	18.3	3.3
23	3	2390.	308.	108.	4240.	308.	106.	4171.	5527.	73.	0.	0.	.75	62.	22.4	C	24.1	4.8
24	3	960.	0.	1468.	4132.	0.	1444.	4064.	5574.	26.	0.	0.	.73	62.	21.9	C	17.2	4.8
25	2	1400.	0.	2664.	2664.	0.	2620.	2620.	3600.	0.	0.	0.	.73	62.	21.1	C	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 59.	25.7	17.5	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	162. VEH-HRS	202. PASS-HRS	162. VEH-HRS	202. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	162. VEH-HRS	202. PASS-HRS	162. VEH-HRS	202. PASS-HRS
TOTAL TRAV DISTANCE =	9580. VEH-MI.	11918. PASS-MI.	9580. VEH-MI.	11918. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	26. VPMPL		26. VPMPL	
TOTAL FUEL =	547. GALLONS		547. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		39. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2984.	72.	2984.	2984.	72.	2984.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
2	2	1970.	0.	0.	2912.	0.	0.	2912.	4100.	0.	0.	0.	.71	62.	23.5	C	13.6	4.8
3	2	1830.	388.	108.	3300.	388.	108.	3300.	4100.	0.	0.	0.	.80	61.	27.1	D	13.9	4.1
4	2	2010.	0.	0.	3192.	0.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	13.6	4.7
5	3	2445.	448.	424.	3640.	448.	424.	3640.	5581.	19.	0.	0.	.65	62.	19.6	C	13.6	4.8
6	2	1890.	0.	0.	3216.	0.	0.	3216.	4400.	0.	0.	0.	.73	62.	26.0	D	13.6	4.7
7	3	5320.	608.	684.	3824.	608.	684.	3824.	5600.	0.	0.	0.	.68	62.	20.6	C	13.6	4.8
8	2	880.	0.	0.	3140.	0.	0.	3140.	4400.	0.	0.	0.	.71	62.	25.4	C	14.9	4.7
9	2	1125.	168.	0.	3308.	168.	0.	3308.	4400.	0.	0.	0.	.75	62.	26.8	D	20.1	4.6
10	3	6320.	616.	324.	3924.	616.	324.	3924.	5596.	4.	0.	0.	.70	62.	21.1	C	19.9	4.8
11	2	2050.	0.	0.	3600.	0.	0.	3600.	4100.	0.	0.	0.	.88	59.	30.6	D	21.3	3.3
12	3	2560.	1148.	0.	4748.	1148.	0.	4512.	5480.	120.	* 601.	236.	.82	56.	26.8	F	18.1	3.5
13	3	1400.	0.	496.	4748.	0.	496.	4512.	5480.	120.	** 1400.	236.	.82	29.	51.3	F	33.3	4.0
14	2	1320.	0.	0.	4252.	0.	0.	4016.	4400.	0.	** 1320.	236.	.91	29.	69.6	F	14.4	3.4
15	3	540.	908.	1324.	5160.	908.	1263.	4924.	4924.	676.	0.	0.	1.00	52.	31.8	E	14.5	2.3
16	2	1230.	0.	0.	3836.	0.	0.	3645.	4400.	0.	* 185.	16.	.83	53.	34.4	F	20.6	3.8
17	2	890.	748.	0.	4584.	748.	0.	4393.	4393.	7.	0.	0.	1.00	52.	42.6	E	23.0	2.3
18	3	4840.	328.	744.	4912.	328.	715.	4515.	5524.	76.	* 2643.	206.	.82	36.	41.5	F	16.6	3.9
19	2	530.	0.	0.	4168.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	356.	0.	4524.	356.	0.	4156.	4384.	16.	0.	0.	.95	55.	37.6	E	22.3	2.5
21	3	2810.	536.	916.	5060.	536.	849.	4692.	5421.	179.	0.	0.	.87	59.	26.4	D	25.7	3.4
22	2	1850.	0.	0.	4144.	0.	0.	3843.	4400.	0.	0.	0.	.87	59.	32.6	D	18.3	3.4
23	3	2390.	320.	236.	4464.	320.	220.	4163.	5527.	73.	0.	0.	.75	62.	22.4	C	24.1	4.8
24	3	960.	0.	1488.	4228.	0.	1388.	3943.	5574.	26.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2740.	2740.	0.	2555.	2555.	3600.	0.	0.	0.	.71	62.	20.6	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 53.	28.5		17.3	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	182. VEH-HRS	227. PASS-HRS	345. VEH-HRS	429. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	182. VEH-HRS	227. PASS-HRS	345. VEH-HRS	429. PASS-HRS
TOTAL TRAV DISTANCE =	9647. VEH-MI.	12001. PASS-MI.	19227. VEH-MI.	23919. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		56. MPH.	
AVERAGE DENSITY =	29. VPMPL		27. VPMPL	
TOTAL FUEL =	559. GALLONS		1106. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		79. KILOGRAMS	

QUEUE CLEAR SECTION 16 T2 =0.235

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3240.	120.	3240.	3240.	120.	3240.	4100.	0.	0.	0.	.79	61.	26.5	D	13.8	4.3
2	2	1970.	0.	0.	3120.	0.	0.	3120.	4100.	0.	0.	0.	.76	62.	25.3	C	13.7	4.5
3	2	1830.	360.	132.	3480.	360.	132.	3480.	4100.	0.	0.	0.	.85	60.	29.1	D	14.2	3.6
4	2	2010.	0.	0.	3348.	0.	0.	3348.	4400.	0.	0.	0.	.76	62.	27.2	D	13.7	4.5
5	3	2445.	392.	400.	3740.	392.	400.	3740.	5600.	0.	0.	0.	.67	62.	20.1	C	13.6	4.8
6	2	1890.	0.	0.	3340.	0.	0.	3340.	4400.	0.	0.	0.	.76	62.	27.1	D	13.7	4.6
7	3	5320.	624.	532.	3964.	624.	532.	3964.	5600.	0.	0.	0.	.71	62.	21.3	C	13.6	4.8
8	2	880.	0.	0.	3432.	0.	0.	3432.	4400.	0.	0.	0.	.78	61.	28.0	D	15.1	4.4
9	2	1125.	200.	0.	3632.	200.	0.	3632.	4400.	0.	0.	0.	.83	60.	30.0	D	20.7	3.9
10	3	6320.	596.	308.	4228.	596.	308.	4228.	5593.	7.	0.	0.	.76	62.	22.7	C	19.9	4.8
11	2	2050.	0.	0.	3920.	0.	0.	3920.	4100.	0.	0.	0.	.96	55.	35.8	E	22.4	2.4
12	3	2560.	880.	0.	4800.	880.	0.	4636.	5508.	92.	* 2298.	164.	.84	31.	50.4	F	16.1	3.9
13	3	1400.	0.	492.	4800.	0.	492.	4636.	5508.	92.	** 1400.	164.	.84	22.	69.6	F	33.4	4.2
14	2	1320.	0.	0.	4308.	0.	0.	4144.	4400.	0.	** 1320.	164.	.94	32.	65.5	F	14.8	3.1
15	3	540.	848.	1464.	5156.	848.	1417.	4992.	4992.	608.	0.	0.	1.00	52.	32.3	E	14.5	2.3
16	2	1230.	0.	0.	3692.	0.	0.	3592.	4400.	0.	0.	-18.	.82	53.	33.7	D	20.3	4.1
17	2	890.	696.	0.	4388.	696.	0.	4288.	4394.	6.	0.	0.	.98	53.	40.2	E	22.6	2.4
18	3	4840.	252.	820.	4640.	252.	802.	4602.	5521.	79.	* 2055.	-62.	.83	32.	47.4	F	15.8	4.6
19	2	530.	0.	0.	3820.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	384.	0.	4204.	384.	0.	4184.	4384.	16.	0.	0.	.95	55.	38.1	E	22.4	2.4
21	3	2810.	660.	820.	4864.	660.	817.	4844.	5389.	211.	0.	0.	.90	58.	27.9	D	26.5	3.1
22	2	1850.	0.	0.	4044.	0.	0.	4027.	4400.	0.	0.	0.	.92	57.	35.3	E	18.7	2.9
23	3	2390.	348.	112.	4392.	348.	112.	4375.	5513.	87.	0.	0.	.79	62.	23.5	C	24.1	4.8
24	3	960.	0.	1596.	4280.	0.	1500.	4264.	5569.	31.	0.	0.	.77	62.	22.9	C	17.2	4.8
25	2	1400.	0.	2684.	2684.	0.	2674.	2674.	3600.	0.	0.	0.	.74	62.	21.6	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 49.	31.8		17.2	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	204. VEH-HRS	254. PASS-HRS	549. VEH-HRS	682. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	3. VEH-HRS	4. PASS-HRS	3. VEH-HRS	4. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	207. VEH-HRS	257. PASS-HRS	551. VEH-HRS	686. PASS-HRS
TOTAL TRAV DISTANCE =	10011. VEH-MI.	12454. PASS-MI.	29238. VEH-MI.	36372. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		53. MPH.	
AVERAGE DENSITY =	32. VPMPL		29. VPMPL	
TOTAL FUEL =	584. GALLONS		1690. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		121. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	23.	2.81	1.07	0.02	0.10	0.02	0.13

QUEUE CLEAR SECTION 18 FT= 0

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2996.	124.	2996.	2996.	124.	2996.	4100.	0.	0.	0.	.73	62.	24.2	C	13.6	4.8
2	2	1970.	0.	0.	2872.	0.	0.	2872.	4100.	0.	0.	0.	.70	62.	23.2	C	13.6	4.8
3	2	1830.	284.	156.	3156.	284.	156.	3156.	4100.	0.	0.	0.	.77	61.	25.7	C	13.7	4.5
4	2	2010.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	13.6	4.8
5	3	2445.	520.	464.	3520.	520.	464.	3520.	5521.	79.	0.	0.	.64	62.	18.9	C	13.6	4.8
6	2	1890.	0.	0.	3056.	0.	0.	3056.	4400.	0.	0.	0.	.69	62.	24.6	C	13.6	4.8
7	3	5320.	608.	524.	3664.	608.	524.	3664.	5600.	0.	0.	0.	.65	62.	19.7	C	13.6	4.8
8	2	880.	0.	0.	3140.	0.	0.	3140.	4400.	0.	0.	0.	.71	62.	25.4	C	14.9	4.7
9	2	1125.	180.	0.	3320.	180.	0.	3320.	4400.	0.	0.	0.	.75	62.	26.9	D	20.1	4.6
10	3	6320.	524.	356.	3844.	524.	356.	3844.	5595.	5.	0.	0.	.69	62.	20.7	C	19.9	4.8
11	2	2050.	0.	0.	3488.	0.	0.	3488.	4100.	0.	0.	0.	.85	60.	29.2	D	21.0	3.6
12	3	2560.	840.	0.	4328.	840.	0.	4360.	5508.	92.	* 2037.	-32.	.79	21.	69.0	F	14.4	4.8
13	3	1400.	0.	476.	4328.	0.	476.	4360.	5508.	92.	** 1400.	-32.	.79	19.	77.2	F	29.6	4.8
14	2	1320.	0.	0.	3852.	0.	0.	3884.	4400.	0.	** 1320.	-32.	.88	26.	76.1	F	13.9	3.7
15	3	540.	1024.	1580.	4876.	1024.	1590.	4908.	4908.	692.	0.	0.	1.00	52.	31.7	E	14.5	2.3
16	2	1230.	0.	0.	3296.	0.	0.	3318.	4400.	0.	0.	0.	.75	62.	26.9	D	20.1	4.6
17	2	890.	628.	0.	3924.	628.	0.	3946.	4399.	1.	0.	0.	.90	58.	34.0	D	21.5	3.1
18	3	4840.	256.	908.	4180.	256.	913.	4449.	5537.	63.	0.	-247.	.80	42.	35.5	E	16.4	4.8
19	2	530.	0.	0.	3272.	0.	0.	3536.	3800.	0.	0.	0.	.93	56.	31.4	D	22.0	2.7
20	2	1040.	448.	0.	3720.	448.	0.	3984.	4382.	18.	0.	0.	.91	57.	34.7	D	21.6	3.0
21	3	2810.	576.	928.	4296.	576.	985.	4560.	5401.	199.	0.	0.	.84	62.	24.5	C	24.1	4.8
22	2	1850.	0.	0.	3368.	0.	0.	3575.	4400.	0.	0.	0.	.81	61.	29.4	D	17.7	4.1
23	3	2390.	588.	240.	3956.	588.	253.	4163.	5480.	120.	0.	0.	.76	62.	22.4	C	24.1	4.8
24	3	960.	0.	1612.	3716.	0.	1500.	3910.	5566.	34.	0.	0.	.70	62.	21.0	C	17.2	4.8
25	2	1400.	0.	2104.	2104.	0.	2214.	2214.	3600.	0.	0.	0.	.62	62.	17.9	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 48.	29.7		16.8	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	191. VEH-HRS	237. PASS-HRS	739. VEH-HRS	920. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	12. VEH-HRS	15. PASS-HRS	15. VEH-HRS	18. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	202. VEH-HRS	252. PASS-HRS	754. VEH-HRS	938. PASS-HRS
TOTAL TRAV DISTANCE =	9230. VEH-MI.	11482. PASS-MI.	38468. VEH-MI.	47854. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		52. MPH.	
AVERAGE DENSITY =	30. VPMPL		29. VPMPL	
TOTAL FUEL =	553. GALLONS		2243. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		163. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	72.	11.76	4.45	0.07	0.42	0.07	0.56

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3152.	120.	3152.	3152.	120.	3152.	4100.	0.	0.	0.	.77	61.	25.6	C	13.7	4.5
2	2	1970.	0.	0.	3032.	0.	0.	3032.	4100.	0.	0.	0.	.74	62.	24.5	C	13.6	4.8
3	2	1830.	256.	204.	3288.	256.	204.	3288.	4100.	0.	0.	0.	.80	61.	27.0	D	13.8	4.2
4	2	2010.	0.	0.	3084.	0.	0.	3084.	4400.	0.	0.	0.	.70	62.	24.9	C	13.6	4.8
5	3	2445.	728.	348.	3812.	728.	348.	3812.	5502.	98.	0.	0.	.69	62.	20.5	C	13.6	4.8
6	2	1890.	0.	0.	3464.	0.	0.	3464.	4400.	0.	0.	0.	.79	61.	28.3	D	13.8	4.3
7	3	5320.	660.	744.	4124.	660.	744.	4124.	5600.	0.	0.	0.	.74	62.	22.2	C	13.6	4.8
8	2	880.	0.	0.	3380.	0.	0.	3380.	4400.	0.	0.	0.	.77	62.	27.5	D	15.1	4.5
9	2	1125.	236.	0.	3616.	236.	0.	3616.	4400.	0.	0.	0.	.82	61.	29.9	D	20.7	3.9
10	3	6320.	500.	368.	4116.	500.	368.	3772.	5592.	8.	* 754.	344.	.67	58.	21.8	F	19.8	4.8
11	2	2050.	0.	0.	3748.	0.	0.	3404.	4100.	0.	** 2050.	344.	.83	30.	57.6	F	19.6	3.7
12	3	2560.	720.	0.	4468.	720.	0.	4124.	5524.	76.	** 2560.	344.	.75	17.	82.7	F	13.5	5.4
13	3	1400.	0.	468.	4468.	0.	468.	4124.	5524.	76.	** 1400.	344.	.75	16.	84.2	F	26.1	5.4
14	2	1320.	0.	0.	4000.	0.	0.	3656.	4400.	0.	** 1320.	344.	.83	21.	85.4	F	13.0	4.4
15	3	540.	1112.	1292.	5112.	1112.	1205.	4768.	4768.	832.	0.	0.	1.00	52.	30.8	E	14.5	2.3
16	2	1230.	0.	0.	3820.	0.	0.	3563.	4400.	0.	0.	0.	.81	61.	29.3	D	20.5	4.1
17	2	890.	584.	0.	4404.	584.	0.	4147.	4395.	5.	0.	0.	.94	56.	37.3	E	22.2	2.5
18	3	4840.	204.	796.	4608.	204.	752.	4351.	5537.	63.	0.	0.	.79	62.	23.4	C	17.2	4.8
19	2	530.	0.	0.	3812.	0.	0.	3599.	3800.	0.	0.	0.	.95	55.	32.5	D	22.2	2.5
20	2	1040.	368.	0.	4180.	368.	0.	3967.	4385.	15.	0.	0.	.90	58.	34.4	D	21.6	3.0
21	3	2810.	660.	792.	4840.	660.	757.	4627.	5418.	182.	0.	0.	.85	60.	25.9	C	25.5	3.5
22	2	1850.	0.	0.	4048.	0.	0.	3870.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	380.	176.	4428.	380.	169.	4250.	5513.	87.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1484.	4252.	0.	1500.	4081.	5569.	31.	0.	0.	.73	62.	21.9	C	17.2	4.8
25	2	1400.	0.	2768.	2768.	0.	2657.	2657.	3600.	0.	0.	0.	.74	62.	21.4	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 47.		32.1	16.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	207. VEH-HRS	257. PASS-HRS	946. VEH-HRS	1177. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	16. VEH-HRS	19. PASS-HRS	30. VEH-HRS	37. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	222. VEH-HRS	277. PASS-HRS	976. VEH-HRS	1215. PASS-HRS
TOTAL TRAV DISTANCE =	9653. VEH-MI.	12008. PASS-MI.	48121. VEH-MI.	59862. PASS-MI.
AVERAGE SYSTEM SPEED =	43. MPH.		51. MPH.	
AVERAGE DENSITY =	32. VPMPL		30. VPMPL	
TOTAL FUEL =	581. GALLONS		2824. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		207. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	53.	15.53	5.88	0.09	0.56	0.10	0.74

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2944.	124.	2944.	2944.	124.	2944.	4100.	0.	0.	0.	.72	62.	23.7	C	13.6	4.8
2	2	1970.	0.	0.	2820.	0.	0.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
3	2	1830.	260.	160.	3080.	260.	160.	3080.	4100.	0.	0.	0.	.75	62.	25.0	C	13.7	4.6
4	2	2010.	0.	0.	2920.	0.	0.	2920.	4400.	0.	0.	0.	.66	62.	23.5	C	13.6	4.8
5	3	2445.	616.	324.	3536.	616.	324.	3536.	5560.	40.	0.	0.	.64	62.	19.0	C	13.6	4.8
6	2	1890.	0.	0.	3212.	0.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	13.6	4.7
7	3	5320.	476.	592.	3688.	476.	592.	3688.	5600.	0.	0.	0.	.66	62.	19.8	C	13.6	4.8
8	2	880.	0.	0.	3096.	0.	0.	3096.	4400.	0.	0.	0.	.70	62.	25.0	C	14.9	4.8
9	2	1125.	188.	0.	3284.	188.	0.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	20.1	4.6
10	3	6320.	432.	292.	3716.	432.	292.	3760.	5595.	5.	* 501.	-44.	.67	45.	27.9	F	19.2	4.9
11	2	2050.	0.	0.	3424.	0.	0.	3468.	4100.	0.	** 2050.	-44.	.85	22.	77.1	F	18.5	4.2
12	3	2560.	924.	0.	4348.	924.	0.	4392.	5508.	92.	** 2560.	-44.	.80	19.	76.3	F	14.0	4.8
13	3	1400.	0.	432.	4348.	0.	432.	4392.	5508.	92.	** 1400.	-44.	.80	19.	76.3	F	30.2	4.8
14	2	1320.	0.	0.	3916.	0.	0.	3960.	4400.	0.	** 1320.	-44.	.90	27.	73.0	F	14.1	3.5
15	3	540.	956.	1384.	4872.	956.	1396.	4916.	4916.	684.	0.	0.	1.00	52.	31.8	E	14.5	2.3
16	2	1230.	0.	0.	3488.	0.	0.	3520.	4400.	0.	0.	0.	.80	61.	28.8	D	20.4	4.2
17	2	890.	708.	0.	4196.	708.	0.	4228.	4396.	4.	0.	0.	.96	54.	38.9	E	22.4	2.4
18	3	4840.	228.	676.	4424.	228.	681.	4456.	5536.	64.	0.	0.	.80	62.	24.0	C	17.2	4.8
19	2	530.	0.	0.	3748.	0.	0.	3775.	3800.	0.	0.	0.	.99	52.	36.2	E	22.9	2.3
20	2	1040.	380.	0.	4128.	380.	0.	4155.	4384.	16.	0.	0.	.95	55.	37.6	E	22.2	2.5
21	3	2810.	656.	820.	4784.	656.	825.	4811.	5417.	183.	0.	0.	.89	58.	27.5	D	26.2	3.2
22	2	1850.	0.	0.	3964.	0.	0.	3986.	4400.	0.	0.	0.	.91	58.	34.6	D	18.6	3.0
23	3	2390.	324.	152.	4288.	324.	153.	4310.	5523.	77.	0.	0.	.78	62.	23.2	C	24.1	4.8
24	3	960.	0.	1576.	4136.	0.	1500.	4157.	5572.	28.	0.	0.	.75	62.	22.4	C	17.2	4.8
25	2	1400.	0.	2560.	2560.	0.	2573.	2573.	3600.	0.	0.	0.	.71	62.	20.8	C	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 46.	32.3	16.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	205. VEH-HRS	255. PASS-HRS	1152. VEH-HRS	1433. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	16. VEH-HRS	20. PASS-HRS	46. VEH-HRS	57. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	221. VEH-HRS	275. PASS-HRS	1197. VEH-HRS	1490. PASS-HRS
TOTAL TRAV DISTANCE =	9398. VEH-MI.	11691. PASS-MI.	57519. VEH-MI.	71553. PASS-MI.
AVERAGE SYSTEM SPEED =	42. MPH.		50. MPH.	
AVERAGE DENSITY =	32. VPMPL		30. VPMPL	
TOTAL FUEL =	561. GALLONS		3385. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		249. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	74.	15.80	5.99	0.09	0.57	0.10	0.76

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3032.	176.	3032.	3032.	176.	3032.	4100.	0.	0.	0.	.74	62.	24.5	C	13.6	4.8
2	2	1970.	0.	0.	2856.	0.	0.	2856.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
3	2	1830.	244.	140.	3100.	244.	140.	3100.	4100.	0.	0.	0.	.76	62.	25.1	C	13.7	4.6
4	2	2010.	0.	0.	2960.	0.	0.	2960.	4400.	0.	0.	0.	.67	62.	23.9	C	13.6	4.8
5	3	2445.	712.	372.	3672.	712.	372.	3672.	5495.	105.	0.	0.	.67	62.	19.7	C	13.6	4.8
6	2	1890.	0.	0.	3300.	0.	0.	3300.	4400.	0.	0.	0.	.75	62.	26.7	D	13.7	4.6
7	3	5320.	544.	528.	3844.	544.	528.	3844.	5600.	0.	0.	0.	.69	62.	20.7	C	13.6	4.8
8	2	880.	0.	0.	3316.	0.	0.	3316.	4400.	0.	0.	0.	.75	62.	26.9	D	15.0	4.6
9	2	1125.	168.	0.	3484.	168.	0.	3484.	4400.	0.	0.	0.	.79	61.	28.5	D	20.3	4.3
10	3	6320.	552.	284.	4036.	552.	284.	4072.	5595.	5.	* 262.	-36.	.73	52.	25.9	F	19.6	4.8
11	2	2050.	0.	0.	3752.	0.	0.	3788.	4100.	0.	** 2050.	-36.	.92	30.	64.0	F	20.5	3.3
12	3	2560.	856.	0.	4608.	856.	0.	4644.	5516.	84.	** 2560.	-36.	.84	22.	69.7	F	14.8	4.2
13	3	1400.	0.	460.	4608.	0.	460.	4644.	5516.	84.	** 1400.	-36.	.84	22.	69.7	F	33.4	4.2
14	2	1320.	0.	0.	4148.	0.	0.	4184.	4400.	0.	** 1320.	-36.	.95	33.	63.8	F	14.9	3.0
15	3	540.	812.	1280.	4960.	812.	1289.	4996.	4996.	604.	0.	0.	1.00	52.	32.3	E	14.5	2.3
16	2	1230.	0.	0.	3680.	0.	0.	3707.	4400.	0.	0.	0.	.84	60.	30.9	D	20.9	3.6
17	2	890.	680.	0.	4360.	680.	0.	4387.	4395.	5.	0.	0.	.99	52.	42.4	E	23.0	2.3
18	3	4840.	248.	544.	4608.	248.	547.	4347.	5546.	54.	* 2379.	288.	.78	39.	36.9	F	16.8	4.0
19	2	530.	0.	0.	4064.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	380.	0.	4444.	380.	0.	4180.	4384.	16.	0.	0.	.95	55.	38.1	E	22.3	2.4
21	3	2810.	676.	884.	5120.	676.	838.	4856.	5329.	271.	0.	0.	.91	57.	28.3	D	26.9	3.0
22	2	1850.	0.	0.	4236.	0.	0.	4018.	4400.	0.	0.	0.	.91	57.	35.1	E	18.7	2.9
23	3	2390.	332.	156.	4568.	332.	149.	4350.	5520.	80.	0.	0.	.79	62.	23.4	C	24.1	4.8
24	3	960.	0.	1536.	4412.	0.	1500.	4201.	5571.	29.	0.	0.	.75	62.	22.6	C	17.2	4.8
25	2	1400.	0.	2876.	2876.	0.	2739.	2739.	3600.	0.	0.	0.	.76	62.	22.1	C	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 47.	32.6	17.1	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	210. VEH-HRS	261. PASS-HRS	1361. VEH-HRS	1693. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	17. VEH-HRS	21. PASS-HRS	63. VEH-HRS	79. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	227. VEH-HRS	282. PASS-HRS	1424. VEH-HRS	1772. PASS-HRS
TOTAL TRAV DISTANCE =	9764. VEH-MI.	12146. PASS-MI.	67283. VEH-MI.	83700. PASS-MI.
AVERAGE SYSTEM SPEED =	43. MPH.		49. MPH.	
AVERAGE DENSITY =	33. VPMPL		30. VPMPL	
TOTAL FUEL =	576. GALLONS		3961. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		290. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	64.	17.26	6.54	0.10	0.62	0.11	0.83

QUEUE CLEAR SECTION 18 T2 =0.230

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3004.	124.	3004.	3004.	124.	3004.	4100.	0.	0.	0.	.73	62.	24.2	C	13.6	4.8
2	2	1970.	0.	0.	2880.	0.	0.	2880.	4100.	0.	0.	0.	.70	62.	23.2	C	13.6	4.8
3	2	1830.	312.	156.	3192.	312.	156.	3192.	4100.	0.	0.	0.	.78	61.	26.0	D	13.7	4.4
4	2	2010.	0.	0.	3036.	0.	0.	3036.	4400.	0.	0.	0.	.69	62.	24.5	C	13.6	4.8
5	3	2445.	608.	380.	3644.	608.	380.	3644.	5537.	63.	0.	0.	.66	62.	19.6	C	13.6	4.8
6	2	1890.	0.	0.	3264.	0.	0.	3264.	4400.	0.	0.	0.	.74	62.	26.4	D	13.6	4.6
7	3	5320.	552.	620.	3816.	552.	620.	3816.	5600.	0.	0.	0.	.68	62.	20.5	C	13.6	4.8
8	2	880.	0.	0.	3196.	0.	0.	3196.	4400.	0.	0.	0.	.73	62.	25.8	C	14.9	4.7
9	2	1125.	172.	0.	3368.	172.	0.	3368.	4400.	0.	0.	0.	.77	62.	27.4	D	20.2	4.5
10	3	6320.	476.	328.	3844.	476.	328.	3844.	5595.	5.	0.	0.	.69	62.	20.8	C	19.9	4.8
11	2	2050.	0.	0.	3516.	0.	0.	3516.	4100.	0.	0.	0.	.86	51.	34.3	D	21.1	3.4
12	3	2560.	772.	0.	4288.	772.	0.	4288.	5508.	92.	0.	0.	.78	30.	47.7	F	15.7	4.3
13	3	1400.	0.	504.	4288.	0.	504.	4704.	5508.	92.	* 1107.	-416.	.85	23.	67.5	F	34.2	4.1
14	2	1320.	0.	0.	3784.	0.	0.	4200.	4400.	0.	** 1320.	-416.	.95	33.	63.2	F	14.9	3.0
15	3	540.	832.	1460.	4616.	832.	1591.	5032.	5032.	568.	0.	0.	1.00	52.	32.5	E	14.5	2.3
16	2	1230.	0.	0.	3156.	0.	0.	3441.	4400.	0.	0.	0.	.78	61.	28.1	D	20.3	4.4
17	2	890.	512.	0.	3668.	512.	0.	3953.	4400.	0.	0.	0.	.90	58.	34.1	D	21.5	3.1
18	3	4840.	204.	728.	3872.	204.	781.	4470.	5555.	45.	0.	-314.	.80	41.	36.4	E	16.3	4.8
19	2	530.	0.	0.	3144.	0.	0.	3689.	3800.	0.	0.	0.	.97	54.	34.3	D	22.6	2.4
20	2	1040.	388.	0.	3532.	388.	0.	4077.	4387.	13.	0.	0.	.93	56.	36.2	E	21.9	2.7
21	3	2810.	772.	740.	4304.	772.	833.	4849.	5403.	197.	0.	0.	.90	58.	27.9	D	26.5	3.1
22	2	1850.	0.	0.	3564.	0.	0.	4016.	4400.	0.	0.	0.	.91	57.	35.1	E	18.7	2.9
23	3	2390.	308.	244.	3872.	308.	273.	4324.	5538.	62.	0.	0.	.78	62.	23.2	C	24.1	4.8
24	3	960.	0.	1552.	3628.	0.	1500.	4051.	5582.	18.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2076.	2076.	0.	2318.	2318.	3600.	0.	0.	0.	.64	62.	18.7	C	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 51.	29.2	17.1	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	187. VEH-HRS	232. PASS-HRS	1548. VEH-HRS	1926. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	23. VEH-HRS	29. PASS-HRS	87. VEH-HRS	108. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	210. VEH-HRS	261. PASS-HRS	1634. VEH-HRS	2033. PASS-HRS
TOTAL TRAV DISTANCE =	9512. VEH-MI.	11833. PASS-MI.	76795. VEH-MI.	95532. PASS-MI.
AVERAGE SYSTEM SPEED =	45. MPH.		50. MPH.	
AVERAGE DENSITY =	29. VPMPL		30. VPMPL	
TOTAL FUEL =	564. GALLONS		4524. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		332. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	123.	23.36	8.85	0.14	0.84	0.15	1.12

QUEUE CLEAR SECTION 14 FT= 776

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3228.	152.	3228.	3228.	152.	3228.	4100.	0.	0.	0.	.79	61.	26.4	D	13.8	4.3
2	2	1970.	0.	0.	3076.	0.	0.	3076.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
3	2	1830.	284.	144.	3360.	284.	144.	3360.	4100.	0.	0.	0.	.82	61.	27.7	D	14.0	4.0
4	2	2010.	0.	0.	3216.	0.	0.	3216.	4400.	0.	0.	0.	.73	62.	26.0	D	13.6	4.7
5	3	2445.	436.	540.	3652.	436.	540.	3652.	5526.	74.	0.	0.	.66	62.	19.6	C	13.6	4.8
6	2	1890.	0.	0.	3112.	0.	0.	3112.	4400.	0.	0.	0.	.71	62.	25.1	C	13.6	4.8
7	3	5320.	448.	496.	3560.	448.	496.	3560.	5600.	0.	0.	0.	.64	62.	19.1	C	13.6	4.8
8	2	880.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	14.9	4.8
9	2	1125.	156.	0.	3220.	156.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	20.0	4.7
10	3	6320.	392.	372.	3612.	392.	372.	3612.	5596.	4.	0.	0.	.65	62.	19.4	C	19.9	4.8
11	2	2050.	0.	0.	3240.	0.	0.	3240.	4100.	0.	0.	0.	.79	61.	26.5	D	20.3	4.3
12	3	2560.	936.	0.	4176.	936.	0.	4176.	5505.	95.	0.	0.	.76	62.	22.5	C	17.2	4.8
13	3	1400.	0.	448.	4176.	0.	448.	4176.	5505.	95.	0.	0.	.76	36.	39.1	E	31.3	4.8
14	2	1320.	0.	0.	3728.	0.	0.	3902.	4400.	0.	0.	-174.	.89	27.	73.6	F	14.0	3.7
15	3	540.	608.	1216.	4336.	608.	1265.	4510.	5164.	436.	0.	0.	.87	62.	24.2	C	12.6	4.8
16	2	1230.	0.	0.	3120.	0.	0.	3246.	4400.	0.	0.	0.	.74	62.	26.3	D	20.0	4.7
17	2	890.	628.	0.	3748.	628.	0.	3874.	4399.	1.	0.	0.	.88	59.	33.0	D	21.3	3.3
18	3	4840.	188.	548.	3936.	188.	565.	4062.	5555.	45.	0.	0.	.73	62.	21.8	C	17.2	4.8
19	2	530.	0.	0.	3388.	0.	0.	3496.	3800.	0.	0.	0.	.92	57.	30.8	D	21.8	2.8
20	2	1040.	436.	0.	3824.	436.	0.	3932.	4382.	18.	0.	0.	.90	58.	33.9	D	21.5	3.1
21	3	2810.	596.	856.	4420.	596.	877.	4528.	5425.	175.	0.	0.	.83	62.	24.3	C	24.1	4.8
22	2	1850.	0.	0.	3564.	0.	0.	3651.	4400.	0.	0.	0.	.83	60.	30.3	D	17.8	3.8
23	3	2390.	336.	176.	3900.	336.	180.	3987.	5529.	71.	0.	0.	.72	62.	21.4	C	24.1	4.8
24	3	960.	0.	1460.	3724.	0.	1500.	3807.	5577.	23.	0.	0.	.68	62.	20.5	C	17.2	4.8
25	2	1400.	0.	2264.	2264.	0.	2315.	2315.	3600.	0.	0.	0.	.64	62.	18.7	C	19.9	4.8
TOTAL		53000. =	10.0 MILES									MAX(V/C) = 0.92	LOWEST LOS = F	AVG = 58.	25.1		17.0	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	156. VEH-HRS	195. PASS-HRS	1704. VEH-HRS	2120. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	30. VEH-HRS	38. PASS-HRS	117. VEH-HRS	145. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	187. VEH-HRS	232. PASS-HRS	1821. VEH-HRS	2266. PASS-HRS
TOTAL TRAV DISTANCE =	9106. VEH-MI.	11328. PASS-MI.	85901. VEH-MI.	106860. PASS-MI.
AVERAGE SYSTEM SPEED =	49. MPH.		50. MPH.	
AVERAGE DENSITY =	25. VPMPL		30. VPMPL	
TOTAL FUEL =	547. GALLONS		5071. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		375. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	121.	30.40	11.51	0.18	1.09	0.19	1.45

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3068.	112.	3068.	3068.	112.	3068.	4100.	0.	0.	0.	.75	62.	24.7	C	13.6	4.8
2	2	1970.	0.	0.	2956.	0.	0.	2956.	4100.	0.	0.	0.	.72	62.	23.8	C	13.6	4.8
3	2	1830.	264.	156.	3220.	264.	156.	3220.	4100.	0.	0.	0.	.79	61.	26.3	D	13.8	4.4
4	2	2010.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	13.6	4.8
5	3	2445.	648.	532.	3712.	648.	532.	3712.	5380.	220.	0.	0.	.69	62.	20.0	C	13.6	4.8
6	2	1890.	0.	0.	3180.	0.	0.	3180.	4400.	0.	0.	0.	.72	62.	25.7	C	13.6	4.7
7	3	5320.	444.	568.	3624.	444.	568.	3624.	5600.	0.	0.	0.	.65	62.	19.5	C	13.6	4.8
8	2	880.	0.	0.	3056.	0.	0.	3056.	4400.	0.	0.	0.	.69	62.	24.6	C	14.9	4.8
9	2	1125.	180.	0.	3236.	180.	0.	3236.	4400.	0.	0.	0.	.74	62.	26.2	D	20.0	4.7
10	3	6320.	472.	432.	3708.	472.	432.	3708.	5596.	4.	0.	0.	.66	62.	19.9	C	19.9	4.8
11	2	2050.	0.	0.	3276.	0.	0.	3276.	4100.	0.	0.	0.	.80	61.	26.8	D	20.4	4.2
12	3	2560.	716.	0.	3992.	716.	0.	3992.	5516.	84.	0.	0.	.72	62.	21.5	C	17.2	4.8
13	3	1400.	0.	496.	3992.	0.	496.	3992.	5516.	84.	0.	0.	.72	62.	21.5	C	32.3	4.8
14	2	1320.	0.	0.	3496.	0.	0.	3496.	4400.	0.	0.	0.	.79	61.	28.6	D	15.2	4.3
15	3	540.	652.	1420.	4148.	652.	1420.	4148.	5172.	428.	0.	0.	.80	62.	22.3	C	12.6	4.8
16	2	1230.	0.	0.	2728.	0.	0.	2728.	4400.	0.	0.	0.	.62	62.	22.0	C	19.9	4.8
17	2	890.	568.	0.	3296.	568.	0.	3296.	4400.	0.	0.	0.	.75	62.	26.7	D	20.1	4.6
18	3	4840.	252.	616.	3548.	252.	616.	3548.	5570.	30.	0.	0.	.64	62.	19.1	C	17.2	4.8
19	2	530.	0.	0.	2932.	0.	0.	2932.	3800.	0.	0.	0.	.77	62.	23.6	C	19.9	4.8
20	2	1040.	368.	0.	3300.	368.	0.	3300.	4389.	11.	0.	0.	.75	62.	26.8	D	20.1	4.6
21	3	2810.	648.	816.	3948.	648.	816.	3948.	5453.	147.	0.	0.	.72	62.	21.2	C	24.1	4.8
22	2	1850.	0.	0.	3132.	0.	0.	3132.	4400.	0.	0.	0.	.71	62.	25.3	C	17.2	4.7
23	3	2390.	252.	156.	3384.	252.	156.	3384.	5564.	36.	0.	0.	.61	62.	18.2	C	24.1	4.8
24	3	960.	0.	1512.	3228.	0.	1500.	3228.	5595.	5.	0.	0.	.58	62.	17.4	B	17.2	4.8
25	2	1400.	0.	1716.	1716.	0.	1716.	1716.	3600.	0.	0.	0.	.48	62.	13.8	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 62.	22.0		16.9	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	138. VEH-HRS	172. PASS-HRS	1843. VEH-HRS	2292. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	31. VEH-HRS	38. PASS-HRS	147. VEH-HRS	183. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	169. VEH-HRS	210. PASS-HRS	1990. VEH-HRS	2476. PASS-HRS
TOTAL TRAV DISTANCE =	8558. VEH-MI.	10646. PASS-MI.	94458. VEH-MI.	117506. PASS-MI.
AVERAGE SYSTEM SPEED =	51. MPH.		51. MPH.	
AVERAGE DENSITY =	22. VPMPL		29. VPMPL	
TOTAL FUEL =	519. GALLONS		5591. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		417. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	124.	30.54	11.57	0.18	1.09	0.19	1.46

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3312.	128.	3312.	3312.	128.	3312.	4100.	0.	0.	0.	.81	61.	27.2	D	13.9	4.1
2	2	1970.	0.	0.	3184.	0.	0.	3184.	4100.	0.	0.	0.	.78	61.	25.9	C	13.7	4.4
3	2	1830.	268.	144.	3452.	268.	144.	3452.	4100.	0.	0.	0.	.84	60.	28.8	D	14.1	3.6
4	2	2010.	0.	0.	3308.	0.	0.	3308.	4400.	0.	0.	0.	.75	62.	26.8	D	13.7	4.6
5	3	2445.	612.	504.	3920.	612.	504.	3920.	5430.	170.	0.	0.	.72	62.	21.1	C	13.6	4.8
6	2	1890.	0.	0.	3416.	0.	0.	3416.	4400.	0.	0.	0.	.78	61.	27.8	D	13.7	4.4
7	3	5320.	376.	548.	3792.	376.	548.	3792.	5600.	0.	0.	0.	.68	62.	20.4	C	13.6	4.8
8	2	880.	0.	0.	3244.	0.	0.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	15.0	4.7
9	2	1125.	128.	0.	3372.	128.	0.	3372.	4400.	0.	0.	0.	.77	62.	27.4	D	20.2	4.5
10	3	6320.	440.	388.	3812.	440.	388.	3812.	5596.	4.	0.	0.	.68	62.	20.5	C	19.9	4.8
11	2	2050.	0.	0.	3424.	0.	0.	3424.	4100.	0.	0.	0.	.84	60.	28.4	D	20.8	3.7
12	3	2560.	760.	0.	4184.	760.	0.	4184.	5520.	80.	0.	0.	.76	62.	22.5	C	17.2	4.8
13	3	1400.	0.	444.	4184.	0.	444.	4184.	5520.	80.	0.	0.	.76	62.	22.5	C	32.3	4.8
14	2	1320.	0.	0.	3740.	0.	0.	3740.	4400.	0.	0.	0.	.85	60.	31.3	D	15.6	3.6
15	3	540.	552.	1264.	4292.	552.	1264.	4292.	5212.	388.	0.	0.	.82	62.	23.1	C	12.6	4.8
16	2	1230.	0.	0.	3028.	0.	0.	3028.	4400.	0.	0.	0.	.69	62.	24.4	C	19.9	4.8
17	2	890.	604.	0.	3632.	604.	0.	3632.	4400.	0.	0.	0.	.83	60.	30.0	D	20.7	3.9
18	3	4840.	244.	612.	3876.	244.	612.	3876.	5555.	45.	0.	0.	.70	62.	20.8	C	17.2	4.8
19	2	530.	0.	0.	3264.	0.	0.	3264.	3800.	0.	0.	0.	.86	59.	27.4	D	21.1	3.5
20	2	1040.	444.	0.	3708.	444.	0.	3708.	4382.	18.	0.	0.	.85	60.	31.0	D	21.0	3.6
21	3	2810.	624.	948.	4332.	624.	948.	4332.	5366.	234.	0.	0.	.81	62.	23.3	C	24.1	4.8
22	2	1850.	0.	0.	3384.	0.	0.	3384.	4400.	0.	0.	0.	.77	61.	27.5	D	17.4	4.5
23	3	2390.	312.	180.	3696.	312.	180.	3696.	5539.	61.	0.	0.	.67	62.	19.9	C	24.1	4.8
24	3	960.	0.	1568.	3516.	0.	1500.	3516.	5585.	15.	0.	0.	.63	62.	18.9	C	17.2	4.8
25	2	1400.	0.	1948.	1948.	0.	1948.	1948.	3600.	0.	0.	0.	.54	62.	15.7	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.86 LOWEST LOS = D AVG = 62. 23.7 17.0 4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	148. VEH-HRS	185. PASS-HRS	1991. VEH-HRS	2477. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	33. VEH-HRS	41. PASS-HRS	180. VEH-HRS	225. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	181. VEH-HRS	226. PASS-HRS	2172. VEH-HRS	2701. PASS-HRS
TOTAL TRAV DISTANCE =	9137. VEH-MI.	11366. PASS-MI.	103595. VEH-MI.	128872. PASS-MI.
AVERAGE SYSTEM SPEED =	50. MPH.		52. MPH.	
AVERAGE DENSITY =	24. VPMPL		28. VPMPL	
TOTAL FUEL =	550. GALLONS		6141. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		460. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	141.	33.04	12.51	0.19	1.18	0.21	1.58

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3080.	120.	3080.	3080.	120.	3080.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
2	2	1970.	0.	0.	2960.	0.	0.	2960.	4100.	0.	0.	0.	.72	62.	23.9	C	13.6	4.8
3	2	1830.	264.	196.	3224.	264.	196.	3224.	4100.	0.	0.	0.	.79	61.	26.3	D	13.8	4.3
4	2	2010.	0.	0.	3028.	0.	0.	3028.	4400.	0.	0.	0.	.69	62.	24.4	C	13.6	4.8
5	3	2445.	556.	540.	3584.	556.	540.	3584.	5440.	160.	0.	0.	.66	62.	19.3	C	13.6	4.8
6	2	1890.	0.	0.	3044.	0.	0.	3044.	4400.	0.	0.	0.	.69	62.	24.5	C	13.6	4.8
7	3	5320.	456.	616.	3500.	456.	616.	3500.	5600.	0.	0.	0.	.62	62.	18.8	C	13.6	4.8
8	2	880.	0.	0.	2884.	0.	0.	2884.	4400.	0.	0.	0.	.66	62.	23.3	C	14.9	4.8
9	2	1125.	144.	0.	3028.	144.	0.	3028.	4400.	0.	0.	0.	.69	62.	24.4	C	19.9	4.8
10	3	6320.	508.	336.	3536.	508.	336.	3536.	5598.	2.	0.	0.	.63	62.	19.0	C	19.9	4.8
11	2	2050.	0.	0.	3200.	0.	0.	3200.	4100.	0.	0.	0.	.78	61.	26.1	D	20.3	4.4
12	3	2560.	848.	0.	4048.	848.	0.	4048.	5494.	106.	0.	0.	.74	62.	21.8	C	17.2	4.8
13	3	1400.	0.	532.	4048.	0.	532.	4048.	5494.	106.	0.	0.	.74	62.	21.8	C	32.3	4.8
14	2	1320.	0.	0.	3516.	0.	0.	3516.	4400.	0.	0.	0.	.80	61.	28.8	D	15.2	4.2
15	3	540.	580.	1296.	4096.	580.	1296.	4096.	5204.	396.	0.	0.	.79	62.	22.0	C	12.6	4.8
16	2	1230.	0.	0.	2800.	0.	0.	2800.	4400.	0.	0.	0.	.64	62.	22.6	C	19.9	4.8
17	2	890.	608.	0.	3408.	608.	0.	3408.	4400.	0.	0.	0.	.77	61.	27.7	D	20.2	4.4
18	3	4840.	132.	504.	3540.	132.	504.	3540.	5567.	33.	0.	0.	.64	62.	19.0	C	17.2	4.8
19	2	530.	0.	0.	3036.	0.	0.	3036.	3800.	0.	0.	0.	.80	62.	24.5	C	19.9	4.8
20	2	1040.	424.	0.	3460.	424.	0.	3460.	4384.	16.	0.	0.	.79	61.	28.3	D	20.3	4.3
21	3	2810.	732.	940.	4192.	732.	940.	4192.	5317.	283.	0.	0.	.79	62.	22.5	C	24.1	4.8
22	2	1850.	0.	0.	3252.	0.	0.	3252.	4400.	0.	0.	0.	.74	62.	26.3	D	17.3	4.7
23	3	2390.	340.	176.	3592.	340.	176.	3592.	5553.	47.	0.	0.	.65	62.	19.3	C	24.1	4.8
24	3	960.	0.	1744.	3416.	0.	1500.	3416.	5593.	7.	0.	0.	.61	62.	18.4	C	17.2	4.8
25	2	1400.	0.	1672.	1672.	0.	1672.	1672.	3600.	0.	0.	0.	.46	62.	13.5	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.80 LOWEST LOS = D AVG = 62. 21.9 16.9 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	138. VEH-HRS	171. PASS-HRS	2129. VEH-HRS	2648. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	43. VEH-HRS	53. PASS-HRS	223. VEH-HRS	278. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	180. VEH-HRS	225. PASS-HRS	2352. VEH-HRS	2926. PASS-HRS
TOTAL TRAV DISTANCE =	8522. VEH-MI.	10601. PASS-MI.	112117. VEH-MI.	139473. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		53. MPH.	
AVERAGE DENSITY =	22. VPMPL		28. VPMPL	
TOTAL FUEL =	520. GALLONS		6661. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		503. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	202.	42.79	16.21	0.25	1.53	0.27	2.05

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3264.	188.	3264.	3264.	188.	3264.	4100.	0.	0.	0.	.80	61.	26.7	D	13.8	4.2
2	2	1970.	0.	0.	3076.	0.	0.	3076.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
3	2	1830.	320.	160.	3396.	320.	160.	3396.	4100.	0.	0.	0.	.83	60.	28.1	D	14.0	3.8
4	2	2010.	0.	0.	3236.	0.	0.	3236.	4400.	0.	0.	0.	.74	62.	26.2	D	13.6	4.7
5	3	2445.	456.	584.	3692.	456.	584.	3692.	5485.	115.	0.	0.	.67	62.	19.8	C	13.6	4.8
6	2	1890.	0.	0.	3108.	0.	0.	3108.	4400.	0.	0.	0.	.71	62.	25.1	C	13.6	4.8
7	3	5320.	624.	584.	3732.	624.	584.	3732.	5600.	0.	0.	0.	.67	62.	20.1	C	13.6	4.8
8	2	880.	0.	0.	3148.	0.	0.	3148.	4400.	0.	0.	0.	.72	62.	25.4	C	14.9	4.7
9	2	1125.	244.	0.	3392.	244.	0.	3392.	4400.	0.	0.	0.	.77	61.	27.6	D	20.2	4.5
10	3	6320.	560.	480.	3952.	560.	480.	3952.	5593.	7.	0.	0.	.71	62.	21.2	C	19.9	4.8
11	2	2050.	0.	0.	3472.	0.	0.	3472.	4100.	0.	0.	0.	.85	60.	29.0	D	21.0	3.6
12	3	2560.	832.	0.	4304.	832.	0.	4304.	5508.	92.	0.	0.	.78	62.	23.1	C	17.2	4.8
13	3	1400.	0.	472.	4304.	0.	472.	4304.	5508.	92.	0.	0.	.78	62.	23.1	C	32.3	4.8
14	2	1320.	0.	0.	3832.	0.	0.	3832.	4400.	0.	0.	0.	.87	59.	32.5	D	15.8	3.4
15	3	540.	804.	1352.	4636.	804.	1352.	4636.	5032.	568.	0.	0.	.92	57.	27.2	D	13.7	2.8
16	2	1230.	0.	0.	3284.	0.	0.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	20.1	4.6
17	2	890.	728.	0.	4012.	728.	0.	4012.	4398.	2.	0.	0.	.91	57.	35.0	E	21.7	2.9
18	3	4840.	188.	528.	4200.	188.	528.	4200.	5549.	51.	0.	0.	.76	62.	22.6	C	17.2	4.8
19	2	530.	0.	0.	3672.	0.	0.	3672.	3800.	0.	0.	0.	.97	54.	34.0	D	22.5	2.4
20	2	1040.	496.	0.	4168.	496.	0.	4168.	4377.	23.	0.	0.	.95	55.	37.9	E	22.3	2.4
21	3	2810.	792.	1000.	4960.	792.	1000.	4960.	5183.	417.	0.	0.	.96	55.	30.2	D	28.5	2.4
22	2	1850.	0.	0.	3960.	0.	0.	3960.	4400.	0.	0.	0.	.90	58.	34.2	D	18.5	3.1
23	3	2390.	396.	140.	4356.	396.	140.	4356.	5500.	100.	0.	0.	.79	62.	23.4	C	24.1	4.8
24	3	960.	0.	1708.	4216.	0.	1500.	4216.	5566.	34.	0.	0.	.76	62.	22.7	C	17.2	4.8
25	2	1400.	0.	2508.	2508.	0.	2508.	2508.	3600.	0.	0.	0.	.70	62.	20.2	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.97		LOWEST LOS = E	AVG = 61.	25.1		17.4	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	157. VEH-HRS	196. PASS-HRS	2286. VEH-HRS	2844. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	57. VEH-HRS	71. PASS-HRS	280. VEH-HRS	349. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	214. VEH-HRS	267. PASS-HRS	2566. VEH-HRS	3192. PASS-HRS
TOTAL TRAV DISTANCE =	9535. VEH-MI.	11861. PASS-MI.	121651. VEH-MI.	151334. PASS-MI.
AVERAGE SYSTEM SPEED =	44. MPH.		53. MPH.	
AVERAGE DENSITY =	25. VPMPL		28. VPMPL	
TOTAL FUEL =	570. GALLONS		7232. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		546. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	254.	56.91	21.56	0.33	2.04	0.36	2.72

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3460.	168.	3460.	3460.	168.	3460.	4100.	0.	0.	0.	.84	60.	28.9	D	14.1	3.6
2	2	1970.	0.	0.	3292.	0.	0.	3292.	4100.	0.	0.	0.	.80	61.	27.0	D	13.9	4.2
3	2	1830.	364.	240.	3656.	364.	240.	3656.	4100.	0.	0.	0.	.89	58.	31.4	D	14.5	3.2
4	2	2010.	0.	0.	3416.	0.	0.	3416.	4400.	0.	0.	0.	.78	61.	27.8	D	13.7	4.4
5	3	2445.	540.	680.	3956.	540.	680.	3956.	5354.	246.	0.	0.	.74	62.	21.3	C	13.6	4.8
6	2	1890.	0.	0.	3276.	0.	0.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	13.6	4.6
7	3	5320.	572.	868.	3848.	572.	868.	3848.	5600.	0.	0.	0.	.69	62.	20.7	C	13.6	4.8
8	2	880.	0.	0.	2980.	0.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	14.9	4.8
9	2	1125.	132.	0.	3112.	132.	0.	3112.	4400.	0.	0.	0.	.71	62.	25.1	C	20.0	4.8
10	3	6320.	456.	500.	3568.	456.	500.	3568.	5597.	3.	0.	0.	.64	62.	19.2	C	19.9	4.8
11	2	2050.	0.	0.	3068.	0.	0.	3068.	4100.	0.	0.	0.	.75	62.	24.7	C	19.9	4.8
12	3	2560.	772.	0.	3840.	772.	0.	3840.	5481.	119.	0.	0.	.70	62.	20.6	C	17.2	4.8
13	3	1400.	0.	656.	3840.	0.	656.	3840.	5481.	119.	0.	0.	.70	62.	20.6	C	32.3	4.8
14	2	1320.	0.	0.	3184.	0.	0.	3184.	4400.	0.	0.	0.	.72	62.	25.7	C	14.9	4.7
15	3	540.	832.	1376.	4016.	832.	1376.	4016.	5052.	548.	0.	0.	.79	62.	21.6	C	12.6	4.8
16	2	1230.	0.	0.	2640.	0.	0.	2640.	4400.	0.	0.	0.	.60	62.	21.3	C	19.9	4.8
17	2	890.	640.	0.	3280.	640.	0.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	20.1	4.6
18	3	4840.	184.	508.	3464.	184.	508.	3464.	5573.	27.	0.	0.	.62	62.	18.6	C	17.2	4.8
19	2	530.	0.	0.	2956.	0.	0.	2956.	3800.	0.	0.	0.	.78	62.	23.8	C	19.9	4.8
20	2	1040.	428.	0.	3384.	428.	0.	3384.	4385.	15.	0.	0.	.77	61.	27.5	D	20.2	4.5
21	3	2810.	700.	1016.	4084.	700.	1016.	4084.	5305.	295.	0.	0.	.77	62.	22.0	C	24.1	4.8
22	2	1850.	0.	0.	3068.	0.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	17.2	4.8
23	3	2390.	364.	192.	3432.	364.	192.	3432.	5567.	33.	0.	0.	.62	62.	18.5	C	24.1	4.8
24	3	960.	0.	1716.	3240.	0.	1500.	3240.	5600.	0.	0.	0.	.58	62.	17.4	B	17.2	4.8
25	2	1400.	0.	1524.	1524.	0.	1524.	1524.	3600.	0.	0.	0.	.42	62.	12.3	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 62.	22.5		16.8	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	141. VEH-HRS	175. PASS-HRS	2427. VEH-HRS	3019. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	70. VEH-HRS	87. PASS-HRS	350. VEH-HRS	436. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	211. VEH-HRS	262. PASS-HRS	2777. VEH-HRS	3455. PASS-HRS
TOTAL TRAV DISTANCE =	8679. VEH-MI.	10797. PASS-MI.	130330. VEH-MI.	162131. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		54. MPH.	
AVERAGE DENSITY =	22. VPMPL		27. VPMPL	
TOTAL FUEL =	543. GALLONS		7774. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		589. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	308.	70.16	26.57	0.41	2.51	0.44	3.36

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2984.	156.	2984.	2984.	156.	2984.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
2	2	1970.	0.	0.	2828.	0.	0.	2828.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
3	2	1830.	324.	232.	3152.	324.	232.	3152.	4100.	0.	0.	0.	.77	61.	25.6	C	13.7	4.5
4	2	2010.	0.	0.	2920.	0.	0.	2920.	4400.	0.	0.	0.	.66	62.	23.5	C	13.6	4.8
5	3	2445.	740.	476.	3660.	740.	476.	3660.	5410.	190.	0.	0.	.68	62.	19.7	C	13.6	4.8
6	2	1890.	0.	0.	3184.	0.	0.	3184.	4400.	0.	0.	0.	.72	62.	25.7	C	13.6	4.7
7	3	5320.	548.	824.	3732.	548.	824.	3732.	5600.	0.	0.	0.	.67	62.	20.1	C	13.6	4.8
8	2	880.	0.	0.	2908.	0.	0.	2908.	4400.	0.	0.	0.	.66	62.	23.5	C	14.9	4.8
9	2	1125.	156.	0.	3064.	156.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	19.9	4.8
10	3	6320.	432.	392.	3496.	432.	392.	3496.	5597.	3.	0.	0.	.62	62.	18.8	C	19.9	4.8
11	2	2050.	0.	0.	3104.	0.	0.	3104.	4100.	0.	0.	0.	.76	62.	25.2	C	20.1	4.6
12	3	2560.	748.	0.	3852.	748.	0.	3852.	5524.	76.	0.	0.	.70	62.	20.7	C	17.2	4.8
13	3	1400.	0.	416.	3852.	0.	416.	3852.	5524.	76.	0.	0.	.70	62.	20.7	C	32.3	4.8
14	2	1320.	0.	0.	3436.	0.	0.	3436.	4400.	0.	0.	0.	.78	61.	28.0	D	15.1	4.4
15	3	540.	764.	1408.	4200.	764.	1408.	4200.	5092.	508.	0.	0.	.82	62.	22.6	C	12.6	4.8
16	2	1230.	0.	0.	2792.	0.	0.	2792.	4400.	0.	0.	0.	.63	62.	22.5	C	19.9	4.8
17	2	890.	488.	0.	3280.	488.	0.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	20.1	4.6
18	3	4840.	192.	444.	3472.	192.	444.	3472.	5576.	24.	0.	0.	.62	62.	18.7	C	17.2	4.8
19	2	530.	0.	0.	3028.	0.	0.	3028.	3800.	0.	0.	0.	.80	62.	24.4	C	19.9	4.8
20	2	1040.	504.	0.	3532.	504.	0.	3532.	4382.	18.	0.	0.	.81	61.	29.0	D	20.5	4.1
21	3	2810.	540.	880.	4072.	540.	880.	4072.	5452.	148.	0.	0.	.75	62.	21.9	C	24.1	4.8
22	2	1850.	0.	0.	3192.	0.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	17.2	4.7
23	3	2390.	356.	176.	3548.	356.	176.	3548.	5541.	59.	0.	0.	.64	62.	19.1	C	24.1	4.8
24	3	960.	0.	1628.	3372.	0.	1500.	3372.	5591.	9.	0.	0.	.60	62.	18.1	C	17.2	4.8
25	2	1400.	0.	1744.	1744.	0.	1744.	1744.	3600.	0.	0.	0.	.48	62.	14.1	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.82		LOWEST LOS = D	AVG = 62.	21.7		16.8	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	170. PASS-HRS	2564. VEH-HRS	3189. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	81. VEH-HRS	101. PASS-HRS	431. VEH-HRS	537. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	218. VEH-HRS	271. PASS-HRS	2995. VEH-HRS	3726. PASS-HRS
TOTAL TRAV DISTANCE =	8458. VEH-MI.	10522. PASS-MI.	138789. VEH-MI.	172653. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		54. MPH.	
AVERAGE DENSITY =	22. VPMPL		27. VPMPL	
TOTAL FUEL =	533. GALLONS		8307. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		633. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	340.	80.91	30.65	0.47	2.90	0.51	3.87

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2696.	152.	2696.	2696.	152.	2696.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
2	2	1970.	0.	0.	2544.	0.	0.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
3	2	1830.	268.	164.	2812.	268.	164.	2812.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
4	2	2010.	0.	0.	2648.	0.	0.	2648.	4400.	0.	0.	0.	.60	62.	21.4	C	13.6	4.8
5	3	2445.	680.	500.	3328.	680.	500.	3328.	5422.	178.	0.	0.	.61	62.	17.9	B	13.6	4.8
6	2	1890.	0.	0.	2828.	0.	0.	2828.	4400.	0.	0.	0.	.64	62.	22.8	C	13.6	4.8
7	3	5320.	440.	784.	3268.	440.	784.	3268.	5600.	0.	0.	0.	.58	62.	17.6	B	13.6	4.8
8	2	880.	0.	0.	2484.	0.	0.	2484.	4400.	0.	0.	0.	.56	62.	20.0	C	14.9	4.8
9	2	1125.	124.	0.	2608.	124.	0.	2608.	4400.	0.	0.	0.	.59	62.	21.0	C	19.9	4.8
10	3	6320.	436.	472.	3044.	436.	472.	3044.	5600.	0.	0.	0.	.54	62.	16.4	B	19.9	4.8
11	2	2050.	0.	0.	2572.	0.	0.	2572.	4100.	0.	0.	0.	.63	62.	20.7	C	19.9	4.8
12	3	2560.	776.	0.	3348.	776.	0.	3348.	5523.	77.	0.	0.	.61	62.	18.0	B	17.2	4.8
13	3	1400.	0.	408.	3348.	0.	408.	3348.	5523.	77.	0.	0.	.61	62.	18.0	B	32.3	4.8
14	2	1320.	0.	0.	2940.	0.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	14.9	4.8
15	3	540.	764.	1368.	3704.	764.	1368.	3704.	5116.	484.	0.	0.	.72	62.	19.9	C	12.6	4.8
16	2	1230.	0.	0.	2336.	0.	0.	2336.	4400.	0.	0.	0.	.53	62.	18.8	C	19.9	4.8
17	2	890.	668.	0.	3004.	668.	0.	3004.	4400.	0.	0.	0.	.68	62.	24.2	C	19.9	4.8
18	3	4840.	136.	608.	3140.	136.	608.	3140.	5589.	11.	0.	0.	.56	62.	16.9	B	17.2	4.8
19	2	530.	0.	0.	2532.	0.	0.	2532.	3800.	0.	0.	0.	.67	62.	20.4	C	19.9	4.8
20	2	1040.	416.	0.	2948.	416.	0.	2948.	4394.	6.	0.	0.	.67	62.	23.8	C	19.9	4.8
21	3	2810.	572.	888.	3520.	572.	888.	3520.	5494.	106.	0.	0.	.64	62.	18.9	C	24.1	4.8
22	2	1850.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	17.2	4.8
23	3	2390.	324.	148.	2956.	324.	148.	2956.	5584.	16.	0.	0.	.53	62.	15.9	B	24.1	4.8
24	3	960.	0.	1344.	2808.	0.	1500.	2808.	5600.	0.	0.	0.	.50	62.	15.1	B	17.2	4.8
25	2	1400.	0.	1464.	1464.	0.	1464.	1464.	3600.	0.	0.	0.	.41	62.	11.8	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.72		LOWEST LOS = C	AVG = 62.	18.9		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	119. VEH-HRS	148. PASS-HRS	2683. VEH-HRS	3337. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	80. VEH-HRS	100. PASS-HRS	511. VEH-HRS	636. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	199. VEH-HRS	248. PASS-HRS	3194. VEH-HRS	3973. PASS-HRS
TOTAL TRAV DISTANCE =	7387. VEH-MI.	9189. PASS-MI.	146175. VEH-MI.	181842. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		54. MPH.	
AVERAGE DENSITY =	19. VPMPL		26. VPMPL	
TOTAL FUEL =	471. GALLONS		8778. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		672. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	301.	80.04	30.32	0.47	2.86	0.50	3.83

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2164.	156.	2164.	2164.	156.	2164.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
2	2	1970.	0.	0.	2008.	0.	0.	2008.	4100.	0.	0.	0.	.49	62.	16.2	B	13.6	4.8
3	2	1830.	248.	188.	2256.	248.	188.	2256.	4100.	0.	0.	0.	.55	62.	18.2	C	13.6	4.8
4	2	2010.	0.	0.	2068.	0.	0.	2068.	4400.	0.	0.	0.	.47	62.	16.7	B	13.6	4.8
5	3	2445.	536.	424.	2604.	536.	424.	2604.	5583.	17.	0.	0.	.47	62.	14.0	B	13.6	4.8
6	2	1890.	0.	0.	2180.	0.	0.	2180.	4400.	0.	0.	0.	.50	62.	17.6	B	13.6	4.8
7	3	5320.	432.	508.	2612.	432.	508.	2612.	5600.	0.	0.	0.	.47	62.	14.0	B	13.6	4.8
8	2	880.	0.	0.	2104.	0.	0.	2104.	4400.	0.	0.	0.	.48	62.	17.0	B	14.9	4.8
9	2	1125.	112.	0.	2216.	112.	0.	2216.	4400.	0.	0.	0.	.50	62.	17.9	B	19.9	4.8
10	3	6320.	380.	268.	2596.	380.	268.	2596.	5600.	0.	0.	0.	.46	62.	14.0	B	19.9	4.8
11	2	2050.	0.	0.	2328.	0.	0.	2328.	4100.	0.	0.	0.	.57	62.	18.8	C	19.9	4.8
12	3	2560.	640.	0.	2968.	640.	0.	2968.	5544.	56.	0.	0.	.54	62.	16.0	B	17.2	4.8
13	3	1400.	0.	372.	2968.	0.	372.	2968.	5544.	56.	0.	0.	.54	62.	16.0	B	32.3	4.8
14	2	1320.	0.	0.	2596.	0.	0.	2596.	4400.	0.	0.	0.	.59	62.	20.9	C	14.9	4.8
15	3	540.	692.	1100.	3288.	692.	1100.	3288.	5140.	460.	0.	0.	.64	62.	17.7	B	12.6	4.8
16	2	1230.	0.	0.	2188.	0.	0.	2188.	4400.	0.	0.	0.	.50	62.	17.6	B	19.9	4.8
17	2	890.	640.	0.	2828.	640.	0.	2828.	4400.	0.	0.	0.	.64	62.	22.8	C	19.9	4.8
18	3	4840.	132.	472.	2960.	132.	472.	2960.	5596.	4.	0.	0.	.53	62.	15.9	B	17.2	4.8
19	2	530.	0.	0.	2488.	0.	0.	2488.	3800.	0.	0.	0.	.65	62.	20.1	C	19.9	4.8
20	2	1040.	392.	0.	2880.	392.	0.	2880.	4395.	5.	0.	0.	.66	62.	23.2	C	19.9	4.8
21	3	2810.	440.	812.	3320.	440.	812.	3320.	5565.	35.	0.	0.	.60	62.	17.8	B	24.1	4.8
22	2	1850.	0.	0.	2508.	0.	0.	2508.	4400.	0.	0.	0.	.57	62.	20.2	C	17.2	4.8
23	3	2390.	272.	108.	2780.	272.	108.	2780.	5600.	0.	0.	0.	.50	62.	14.9	B	24.1	4.8
24	3	960.	0.	1408.	2672.	0.	1500.	2672.	5600.	0.	0.	0.	.48	62.	14.4	B	17.2	4.8
25	2	1400.	0.	1264.	1264.	0.	1264.	1264.	3600.	0.	0.	0.	.35	62.	10.2	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.66 LOWEST LOS = C AVG = 62. 16.4 17.0 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	103. VEH-HRS	128. PASS-HRS	2786. VEH-HRS	3466. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	72. VEH-HRS	90. PASS-HRS	584. VEH-HRS	726. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	176. VEH-HRS	218. PASS-HRS	3370. VEH-HRS	4192. PASS-HRS
TOTAL TRAV DISTANCE =	6404. VEH-MI.	7967. PASS-MI.	152579. VEH-MI.	189809. PASS-MI.
AVERAGE SYSTEM SPEED =	36. MPH.		55. MPH.	
AVERAGE DENSITY =	16. VPMPL		26. VPMPL	
TOTAL FUEL =	405. GALLONS		9183. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		706. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	278.	72.29	27.38	0.42	2.59	0.45	3.46

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2276.	108.	2276.	2276.	108.	2276.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
2	2	1970.	0.	0.	2168.	0.	0.	2168.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
3	2	1830.	240.	128.	2408.	240.	128.	2408.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
4	2	2010.	0.	0.	2280.	0.	0.	2280.	4400.	0.	0.	0.	.52	62.	18.4	C	13.6	4.8
5	3	2445.	436.	428.	2716.	436.	428.	2716.	5600.	0.	0.	0.	.48	62.	14.6	B	13.6	4.8
6	2	1890.	0.	0.	2288.	0.	0.	2288.	4400.	0.	0.	0.	.52	62.	18.5	C	13.6	4.8
7	3	5320.	340.	652.	2628.	340.	652.	2628.	5600.	0.	0.	0.	.47	62.	14.1	B	13.6	4.8
8	2	880.	0.	0.	1976.	0.	0.	1976.	4400.	0.	0.	0.	.45	62.	15.9	B	14.9	4.8
9	2	1125.	144.	0.	2120.	144.	0.	2120.	4400.	0.	0.	0.	.48	62.	17.1	B	19.9	4.8
10	3	6320.	400.	356.	2520.	400.	356.	2520.	5600.	0.	0.	0.	.45	62.	13.5	B	19.9	4.8
11	2	2050.	0.	0.	2164.	0.	0.	2164.	4100.	0.	0.	0.	.53	62.	17.5	B	19.9	4.8
12	3	2560.	568.	0.	2732.	568.	0.	2732.	5564.	36.	0.	0.	.49	62.	14.7	B	17.2	4.8
13	3	1400.	0.	284.	2732.	0.	284.	2732.	5564.	36.	0.	0.	.49	62.	14.7	B	32.3	4.8
14	2	1320.	0.	0.	2448.	0.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	14.9	4.8
15	3	540.	688.	1080.	3136.	688.	1080.	3136.	5148.	452.	0.	0.	.61	62.	16.9	B	12.6	4.8
16	2	1230.	0.	0.	2056.	0.	0.	2056.	4400.	0.	0.	0.	.47	62.	16.6	B	19.9	4.8
17	2	890.	604.	0.	2660.	604.	0.	2660.	4400.	0.	0.	0.	.60	62.	21.5	C	19.9	4.8
18	3	4840.	204.	456.	2864.	204.	456.	2864.	5600.	0.	0.	0.	.51	62.	15.4	B	17.2	4.8
19	2	530.	0.	0.	2408.	0.	0.	2408.	3800.	0.	0.	0.	.63	62.	19.4	C	19.9	4.8
20	2	1040.	412.	0.	2820.	412.	0.	2820.	4396.	4.	0.	0.	.64	62.	22.7	C	19.9	4.8
21	3	2810.	460.	832.	3280.	460.	832.	3280.	5566.	34.	0.	0.	.59	62.	17.6	B	24.1	4.8
22	2	1850.	0.	0.	2448.	0.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	17.2	4.8
23	3	2390.	232.	104.	2680.	232.	104.	2680.	5600.	0.	0.	0.	.48	62.	14.4	B	24.1	4.8
24	3	960.	0.	1244.	2576.	0.	1500.	2576.	5600.	0.	0.	0.	.46	62.	13.8	B	17.2	4.8
25	2	1400.	0.	1332.	1332.	0.	1332.	1332.	3600.	0.	0.	0.	.37	62.	10.7	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.64		LOWEST LOS = C	AVG = 62.	16.2		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	102. VEH-HRS	127. PASS-HRS	2888. VEH-HRS	3593. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	61. VEH-HRS	76. PASS-HRS	645. VEH-HRS	802. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	163. VEH-HRS	203. PASS-HRS	3533. VEH-HRS	4395. PASS-HRS
TOTAL TRAV DISTANCE =	6327. VEH-MI.	7871. PASS-MI.	158907. VEH-MI.	197680. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		55. MPH.	
AVERAGE DENSITY =	16. VPMPL		25. VPMPL	
TOTAL FUEL =	399. GALLONS		9582. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		740. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	214.	61.41	23.26	0.36	2.20	0.38	2.94

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2076.	120.	2076.	2076.	120.	2076.	4100.	0.	0.	0.	.51	62.	16.7	B	13.6	4.8
2	2	1970.	0.	0.	1956.	0.	0.	1956.	4100.	0.	0.	0.	.48	62.	15.8	B	13.6	4.8
3	2	1830.	280.	128.	2236.	280.	128.	2236.	4100.	0.	0.	0.	.55	62.	18.0	C	13.6	4.8
4	2	2010.	0.	0.	2108.	0.	0.	2108.	4400.	0.	0.	0.	.48	62.	17.0	B	13.6	4.8
5	3	2445.	492.	424.	2600.	492.	424.	2600.	5600.	0.	0.	0.	.46	62.	14.0	B	13.6	4.8
6	2	1890.	0.	0.	2176.	0.	0.	2176.	4400.	0.	0.	0.	.49	62.	17.5	B	13.6	4.8
7	3	5320.	392.	520.	2568.	392.	520.	2568.	5600.	0.	0.	0.	.46	62.	13.8	B	13.6	4.8
8	2	880.	0.	0.	2048.	0.	0.	2048.	4400.	0.	0.	0.	.47	62.	16.5	B	14.9	4.8
9	2	1125.	208.	0.	2256.	208.	0.	2256.	4400.	0.	0.	0.	.51	62.	18.2	C	19.9	4.8
10	3	6320.	300.	288.	2556.	300.	288.	2556.	5600.	0.	0.	0.	.46	62.	13.7	B	19.9	4.8
11	2	2050.	0.	0.	2268.	0.	0.	2268.	4100.	0.	0.	0.	.55	62.	18.3	C	19.9	4.8
12	3	2560.	508.	0.	2776.	508.	0.	2776.	5561.	39.	0.	0.	.50	62.	14.9	B	17.2	4.8
13	3	1400.	0.	332.	2776.	0.	332.	2776.	5561.	39.	0.	0.	.50	62.	14.9	B	32.3	4.8
14	2	1320.	0.	0.	2444.	0.	0.	2444.	4400.	0.	0.	0.	.56	62.	19.7	C	14.9	4.8
15	3	540.	596.	1080.	3040.	596.	1080.	3040.	5216.	384.	0.	0.	.58	62.	16.3	B	12.6	4.8
16	2	1230.	0.	0.	1960.	0.	0.	1960.	4400.	0.	0.	0.	.45	62.	15.8	B	19.9	4.8
17	2	890.	584.	0.	2544.	584.	0.	2544.	4400.	0.	0.	0.	.58	62.	20.5	C	19.9	4.8
18	3	4840.	216.	420.	2760.	216.	420.	2760.	5600.	0.	0.	0.	.49	62.	14.8	B	17.2	4.8
19	2	530.	0.	0.	2340.	0.	0.	2340.	3800.	0.	0.	0.	.62	62.	18.9	C	19.9	4.8
20	2	1040.	300.	0.	2640.	300.	0.	2640.	4397.	3.	0.	0.	.60	62.	21.3	C	19.9	4.8
21	3	2810.	372.	640.	3012.	372.	640.	3012.	5579.	21.	0.	0.	.54	62.	16.2	B	24.1	4.8
22	2	1850.	0.	0.	2372.	0.	0.	2372.	4400.	0.	0.	0.	.54	62.	19.1	C	17.2	4.8
23	3	2390.	248.	124.	2620.	248.	124.	2620.	5590.	10.	0.	0.	.47	62.	14.1	B	24.1	4.8
24	3	960.	0.	1024.	2496.	0.	1500.	2496.	5600.	0.	0.	0.	.45	62.	13.4	B	17.2	4.8
25	2	1400.	0.	1472.	1472.	0.	1472.	1472.	3600.	0.	0.	0.	.41	62.	11.9	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.62		LOWEST LOS = C	AVG = 62.	15.8		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	99. VEH-HRS	123. PASS-HRS	2987. VEH-HRS	3716. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	39. VEH-HRS	48. PASS-HRS	684. VEH-HRS	850. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	138. VEH-HRS	171. PASS-HRS	3671. VEH-HRS	4567. PASS-HRS
TOTAL TRAV DISTANCE =	6154. VEH-MI.	7655. PASS-MI.	165060. VEH-MI.	205335. PASS-MI.
AVERAGE SYSTEM SPEED =	45. MPH.		55. MPH.	
AVERAGE DENSITY =	16. VPMPL		25. VPMPL	
TOTAL FUEL =	379. GALLONS		9961. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		771. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	95.	38.54	14.60	0.22	1.38	0.24	1.84

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1920.	84.	1920.	1920.	84.	1920.	4100.	0.	0.	0.	.47	62.	15.5	B	13.6	4.8
2	2	1970.	0.	0.	1836.	0.	0.	1836.	4100.	0.	0.	0.	.45	62.	14.8	B	13.6	4.8
3	2	1830.	240.	160.	2076.	240.	160.	2076.	4100.	0.	0.	0.	.51	62.	16.7	B	13.6	4.8
4	2	2010.	0.	0.	1916.	0.	0.	1916.	4400.	0.	0.	0.	.44	62.	15.5	B	13.6	4.8
5	3	2445.	312.	352.	2228.	312.	352.	2228.	5600.	0.	0.	0.	.40	62.	12.0	B	13.6	4.8
6	2	1890.	0.	0.	1876.	0.	0.	1876.	4400.	0.	0.	0.	.43	62.	15.1	B	13.6	4.8
7	3	5320.	452.	540.	2328.	452.	540.	2328.	5600.	0.	0.	0.	.42	62.	12.5	B	13.6	4.8
8	2	880.	0.	0.	1788.	0.	0.	1788.	4400.	0.	0.	0.	.41	62.	14.4	B	14.9	4.8
9	2	1125.	140.	0.	1928.	140.	0.	1928.	4400.	0.	0.	0.	.44	62.	15.5	B	19.9	4.8
10	3	6320.	324.	388.	2252.	324.	388.	2252.	5600.	0.	0.	0.	.40	62.	12.1	B	19.9	4.8
11	2	2050.	0.	0.	1864.	0.	0.	1864.	4100.	0.	0.	0.	.45	62.	15.0	B	19.9	4.8
12	3	2560.	452.	0.	2316.	452.	0.	2316.	5577.	23.	0.	0.	.42	62.	12.5	B	17.2	4.8
13	3	1400.	0.	388.	2316.	0.	388.	2316.	5577.	23.	0.	0.	.42	62.	12.5	B	32.3	4.8
14	2	1320.	0.	0.	1928.	0.	0.	1928.	4400.	0.	0.	0.	.44	62.	15.5	B	14.9	4.8
15	3	540.	720.	932.	2648.	720.	932.	2648.	5132.	468.	0.	0.	.52	62.	14.2	B	12.6	4.8
16	2	1230.	0.	0.	1716.	0.	0.	1716.	4400.	0.	0.	0.	.39	62.	13.8	B	19.9	4.8
17	2	890.	532.	0.	2248.	532.	0.	2248.	4400.	0.	0.	0.	.51	62.	18.1	C	19.9	4.8
18	3	4840.	204.	364.	2452.	204.	364.	2452.	5600.	0.	0.	0.	.44	62.	13.2	B	17.2	4.8
19	2	530.	0.	0.	2088.	0.	0.	2088.	3800.	0.	0.	0.	.55	62.	16.8	B	19.9	4.8
20	2	1040.	300.	0.	2388.	300.	0.	2388.	4400.	0.	0.	0.	.54	62.	19.3	C	19.9	4.8
21	3	2810.	372.	812.	2760.	372.	812.	2760.	5594.	6.	0.	0.	.49	62.	14.8	B	24.1	4.8
22	2	1850.	0.	0.	1948.	0.	0.	1948.	4400.	0.	0.	0.	.44	62.	15.7	B	17.2	4.8
23	3	2390.	196.	92.	2144.	196.	92.	2144.	5600.	0.	0.	0.	.38	62.	11.5	B	24.1	4.8
24	3	960.	0.	1132.	2052.	0.	1500.	2052.	5600.	0.	0.	0.	.37	62.	11.0	B	17.2	4.8
25	2	1400.	0.	920.	920.	0.	920.	920.	3600.	0.	0.	0.	.26	62.	7.4	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.55		LOWEST LOS = C	AVG = 62.	13.7		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	87. VEH-HRS	108. PASS-HRS	3074. VEH-HRS	3824. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	12. VEH-HRS	15. PASS-HRS	696. VEH-HRS	865. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	99. VEH-HRS	123. PASS-HRS	3770. VEH-HRS	4689. PASS-HRS
TOTAL TRAV DISTANCE =	5371. VEH-MI.	6681. PASS-MI.	170431. VEH-MI.	212016. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		55. MPH.	
AVERAGE DENSITY =	14. VPMPL		24. VPMPL	
TOTAL FUEL =	324. GALLONS		10284. GALLONS	
TOTAL EMISSIONS =	26. KILOGRAMS		797. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	3.	12.16	4.61	0.07	0.44	0.08	0.58

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1412.	76.	1412.	1412.	76.	1412.	4100.	0.	0.	0.	.34	62.	11.4	B	13.6	4.8
2	2	1970.	0.	0.	1336.	0.	0.	1336.	4100.	0.	0.	0.	.33	62.	10.8	A	13.6	4.8
3	2	1830.	236.	108.	1572.	236.	108.	1572.	4100.	0.	0.	0.	.38	62.	12.7	B	13.6	4.8
4	2	2010.	0.	0.	1464.	0.	0.	1464.	4400.	0.	0.	0.	.33	62.	11.8	B	13.6	4.8
5	3	2445.	324.	416.	1788.	324.	416.	1788.	5600.	0.	0.	0.	.32	62.	9.6	A	13.6	4.8
6	2	1890.	0.	0.	1372.	0.	0.	1372.	4400.	0.	0.	0.	.31	62.	11.1	B	13.6	4.8
7	3	5320.	592.	408.	1964.	592.	408.	1964.	5600.	0.	0.	0.	.35	62.	10.6	A	13.6	4.8
8	2	880.	0.	0.	1556.	0.	0.	1556.	4400.	0.	0.	0.	.35	62.	12.5	B	14.9	4.8
9	2	1125.	128.	0.	1684.	128.	0.	1684.	4400.	0.	0.	0.	.38	62.	13.6	B	19.9	4.8
10	3	6320.	316.	304.	2000.	316.	304.	2000.	5600.	0.	0.	0.	.36	62.	10.8	A	19.9	4.8
11	2	2050.	0.	0.	1696.	0.	0.	1696.	4100.	0.	0.	0.	.41	62.	13.7	B	19.9	4.8
12	3	2560.	608.	0.	2304.	608.	0.	2304.	5584.	16.	0.	0.	.41	62.	12.4	B	17.2	4.8
13	3	1400.	0.	308.	2304.	0.	308.	2304.	5584.	16.	0.	0.	.41	62.	12.4	B	32.3	4.8
14	2	1320.	0.	0.	1996.	0.	0.	1996.	4400.	0.	0.	0.	.45	62.	16.1	B	14.9	4.8
15	3	540.	648.	1084.	2644.	648.	1084.	2644.	5216.	384.	0.	0.	.51	62.	14.2	B	12.6	4.8
16	2	1230.	0.	0.	1560.	0.	0.	1560.	4400.	0.	0.	0.	.35	62.	12.6	B	19.9	4.8
17	2	890.	684.	0.	2244.	684.	0.	2244.	4400.	0.	0.	0.	.51	62.	18.1	C	19.9	4.8
18	3	4840.	136.	424.	2380.	136.	424.	2380.	5600.	0.	0.	0.	.43	62.	12.8	B	17.2	4.8
19	2	530.	0.	0.	1956.	0.	0.	1956.	3800.	0.	0.	0.	.51	62.	15.8	B	19.9	4.8
20	2	1040.	264.	0.	2220.	264.	0.	2220.	4400.	0.	0.	0.	.50	62.	17.9	B	19.9	4.8
21	3	2810.	380.	628.	2600.	380.	628.	2600.	5595.	5.	0.	0.	.46	62.	14.0	B	24.1	4.8
22	2	1850.	0.	0.	1972.	0.	0.	1972.	4400.	0.	0.	0.	.45	62.	15.9	B	17.2	4.8
23	3	2390.	220.	120.	2192.	220.	120.	2192.	5600.	0.	0.	0.	.39	62.	11.8	B	24.1	4.8
24	3	960.	0.	1028.	2072.	0.	1028.	2072.	5600.	0.	0.	0.	.37	62.	11.1	B	17.2	4.8
25	2	1400.	0.	1044.	1044.	0.	1044.	1044.	3600.	0.	0.	0.	.29	62.	8.4	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.51		LOWEST LOS = C	AVG = 62.	12.2		17.1	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	78. VEH-HRS	97. PASS-HRS	3152. VEH-HRS	3920. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	696. VEH-HRS	866. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	78. VEH-HRS	97. PASS-HRS	3848. VEH-HRS	4786. PASS-HRS
TOTAL TRAV DISTANCE =	4813. VEH-MI.	5988. PASS-MI.	175244. VEH-MI.	218004. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		56. MPH.	
AVERAGE DENSITY =	12. VPMPL		24. VPMPL	
TOTAL FUEL =	282. GALLONS		10566. GALLONS	
TOTAL EMISSIONS =	23. KILOGRAMS		820. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	0.	0.33	0.13	0.00	0.01	0.00	0.02

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1400.	64.	1400.	1400.	64.	1400.	4100.	0.	0.	0.	.34	62.	11.3	B	13.6	4.8
2	2	1970.	0.	0.	1336.	0.	0.	1336.	4100.	0.	0.	0.	.33	62.	10.8	A	13.6	4.8
3	2	1830.	164.	96.	1500.	164.	96.	1500.	4100.	0.	0.	0.	.37	62.	12.1	B	13.6	4.8
4	2	2010.	0.	0.	1404.	0.	0.	1404.	4400.	0.	0.	0.	.32	62.	11.3	B	13.6	4.8
5	3	2445.	256.	256.	1660.	256.	256.	1660.	5600.	0.	0.	0.	.30	62.	8.9	A	13.6	4.8
6	2	1890.	0.	0.	1404.	0.	0.	1404.	4400.	0.	0.	0.	.32	62.	11.3	B	13.6	4.8
7	3	5320.	316.	360.	1720.	316.	360.	1720.	5600.	0.	0.	0.	.31	62.	9.2	A	13.6	4.8
8	2	880.	0.	0.	1360.	0.	0.	1360.	4400.	0.	0.	0.	.31	62.	11.0	A	14.9	4.8
9	2	1125.	200.	0.	1560.	200.	0.	1560.	4400.	0.	0.	0.	.35	62.	12.6	B	19.9	4.8
10	3	6320.	352.	236.	1912.	352.	236.	1912.	5600.	0.	0.	0.	.34	62.	10.3	A	19.9	4.8
11	2	2050.	0.	0.	1676.	0.	0.	1676.	4100.	0.	0.	0.	.41	62.	13.5	B	19.9	4.8
12	3	2560.	580.	0.	2256.	580.	0.	2256.	5588.	12.	0.	0.	.40	62.	12.1	B	17.2	4.8
13	3	1400.	0.	236.	2256.	0.	236.	2256.	5588.	12.	0.	0.	.40	62.	12.1	B	32.3	4.8
14	2	1320.	0.	0.	2020.	0.	0.	2020.	4400.	0.	0.	0.	.46	62.	16.3	B	14.9	4.8
15	3	540.	556.	852.	2576.	556.	852.	2576.	5228.	372.	0.	0.	.49	62.	13.8	B	12.6	4.8
16	2	1230.	0.	0.	1724.	0.	0.	1724.	4400.	0.	0.	0.	.39	62.	13.9	B	19.9	4.8
17	2	890.	632.	0.	2356.	632.	0.	2356.	4400.	0.	0.	0.	.54	62.	19.0	C	19.9	4.8
18	3	4840.	208.	448.	2564.	208.	448.	2564.	5600.	0.	0.	0.	.46	62.	13.8	B	17.2	4.8
19	2	530.	0.	0.	2116.	0.	0.	2116.	3800.	0.	0.	0.	.56	62.	17.1	B	19.9	4.8
20	2	1040.	268.	0.	2384.	268.	0.	2384.	4400.	0.	0.	0.	.54	62.	19.2	C	19.9	4.8
21	3	2810.	352.	720.	2736.	352.	720.	2736.	5589.	11.	0.	0.	.49	62.	14.7	B	24.1	4.8
22	2	1850.	0.	0.	2016.	0.	0.	2016.	4400.	0.	0.	0.	.46	62.	16.3	B	17.2	4.8
23	3	2390.	228.	68.	2244.	228.	68.	2244.	5600.	0.	0.	0.	.40	62.	12.1	B	24.1	4.8
24	3	960.	0.	904.	2176.	0.	904.	2176.	5600.	0.	0.	0.	.39	62.	11.7	B	17.2	4.8
25	2	1400.	0.	1272.	1272.	0.	1272.	1272.	3600.	0.	0.	0.	.35	62.	10.3	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.56 LOWEST LOS = C AVG = 62. 12.2 17.2 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	77. VEH-HRS	96. PASS-HRS	3229. VEH-HRS	4017. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	696. VEH-HRS	866. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	77. VEH-HRS	96. PASS-HRS	3925. VEH-HRS	4883. PASS-HRS
TOTAL TRAV DISTANCE =	4790. VEH-MI.	5959. PASS-MI.	180034. VEH-MI.	223962. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		56. MPH.	
AVERAGE DENSITY =	12. VPMPL		23. VPMPL	
TOTAL FUEL =	278. GALLONS		10844. GALLONS	
TOTAL EMISSIONS =	23. KILOGRAMS		843. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1052.	84.	1052.	1052.	84.	1052.	4100.	0.	0.	0.	.26	62.	8.5	A	13.6	4.8
2	2	1970.	0.	0.	968.	0.	0.	968.	4100.	0.	0.	0.	.24	62.	7.8	A	13.6	4.8
3	2	1830.	168.	56.	1136.	168.	56.	1136.	4100.	0.	0.	0.	.28	62.	9.2	A	13.6	4.8
4	2	2010.	0.	0.	1080.	0.	0.	1080.	4400.	0.	0.	0.	.25	62.	8.7	A	13.6	4.8
5	3	2445.	308.	164.	1388.	308.	164.	1388.	5600.	0.	0.	0.	.25	62.	7.5	A	13.6	4.8
6	2	1890.	0.	0.	1224.	0.	0.	1224.	4400.	0.	0.	0.	.28	62.	9.9	A	13.6	4.8
7	3	5320.	388.	396.	1612.	388.	396.	1612.	5600.	0.	0.	0.	.29	62.	8.7	A	13.6	4.8
8	2	880.	0.	0.	1216.	0.	0.	1216.	4400.	0.	0.	0.	.28	62.	9.8	A	14.9	4.8
9	2	1125.	156.	0.	1372.	156.	0.	1372.	4400.	0.	0.	0.	.31	62.	11.1	B	19.9	4.8
10	3	6320.	292.	176.	1664.	292.	176.	1664.	5600.	0.	0.	0.	.30	62.	8.9	A	19.9	4.8
11	2	2050.	0.	0.	1488.	0.	0.	1488.	4100.	0.	0.	0.	.36	62.	12.0	B	19.9	4.8
12	3	2560.	444.	0.	1932.	444.	0.	1932.	5600.	0.	0.	0.	.34	62.	10.4	A	17.2	4.8
13	3	1400.	0.	240.	1932.	0.	240.	1932.	5600.	0.	0.	0.	.34	62.	10.4	A	32.3	4.8
14	2	1320.	0.	0.	1692.	0.	0.	1692.	4400.	0.	0.	0.	.38	62.	13.6	B	14.9	4.8
15	3	540.	588.	872.	2280.	588.	872.	2280.	5236.	364.	0.	0.	.44	62.	12.3	B	12.6	4.8
16	2	1230.	0.	0.	1408.	0.	0.	1408.	4400.	0.	0.	0.	.32	62.	11.4	B	19.9	4.8
17	2	890.	452.	0.	1860.	452.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
18	3	4840.	184.	308.	2044.	184.	308.	2044.	5600.	0.	0.	0.	.37	62.	11.0	A	17.2	4.8
19	2	530.	0.	0.	1736.	0.	0.	1736.	3800.	0.	0.	0.	.46	62.	14.0	B	19.9	4.8
20	2	1040.	304.	0.	2040.	304.	0.	2040.	4400.	0.	0.	0.	.46	62.	16.5	B	19.9	4.8
21	3	2810.	264.	696.	2304.	264.	696.	2304.	5600.	0.	0.	0.	.41	62.	12.4	B	24.1	4.8
22	2	1850.	0.	0.	1608.	0.	0.	1608.	4400.	0.	0.	0.	.37	62.	13.0	B	17.2	4.8
23	3	2390.	212.	72.	1820.	212.	72.	1820.	5600.	0.	0.	0.	.32	62.	9.8	A	24.1	4.8
24	3	960.	0.	868.	1748.	0.	868.	1748.	5600.	0.	0.	0.	.31	62.	9.4	A	17.2	4.8
25	2	1400.	0.	880.	880.	0.	880.	880.	3600.	0.	0.	0.	.24	62.	7.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.46		LOWEST LOS = B	AVG = 62.	10.1		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	3293. VEH-HRS	4097. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	696. VEH-HRS	866. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	3989. VEH-HRS	4963. PASS-HRS
TOTAL TRAV DISTANCE =	3994. VEH-MI.	4968. PASS-MI.	184028. VEH-MI.	228930. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		56. MPH.	
AVERAGE DENSITY =	10. VPMPL		23. VPMPL	
TOTAL FUEL =	232. GALLONS		11076. GALLONS	
TOTAL EMISSIONS =	19. KILOGRAMS		862. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1040.	64.	1040.	1040.	64.	1040.	4100.	0.	0.	0.	.25	62.	8.4	A	13.6	4.8
2	2	1970.	0.	0.	976.	0.	0.	976.	4100.	0.	0.	0.	.24	62.	7.9	A	13.6	4.8
3	2	1830.	108.	64.	1084.	108.	64.	1084.	4100.	0.	0.	0.	.26	62.	8.7	A	13.6	4.8
4	2	2010.	0.	0.	1020.	0.	0.	1020.	4400.	0.	0.	0.	.23	62.	8.2	A	13.6	4.8
5	3	2445.	132.	204.	1152.	132.	204.	1152.	5600.	0.	0.	0.	.21	62.	6.2	A	13.6	4.8
6	2	1890.	0.	0.	948.	0.	0.	948.	4400.	0.	0.	0.	.22	62.	7.6	A	13.6	4.8
7	3	5320.	308.	284.	1256.	308.	284.	1256.	5600.	0.	0.	0.	.22	62.	6.8	A	13.6	4.8
8	2	880.	0.	0.	972.	0.	0.	972.	4400.	0.	0.	0.	.22	62.	7.8	A	14.9	4.8
9	2	1125.	108.	0.	1080.	108.	0.	1080.	4400.	0.	0.	0.	.25	62.	8.7	A	19.9	4.8
10	3	6320.	160.	148.	1240.	160.	148.	1240.	5600.	0.	0.	0.	.22	62.	6.7	A	19.9	4.8
11	2	2050.	0.	0.	1092.	0.	0.	1092.	4100.	0.	0.	0.	.27	62.	8.8	A	19.9	4.8
12	3	2560.	444.	0.	1536.	444.	0.	1536.	5600.	0.	0.	0.	.27	62.	8.3	A	17.2	4.8
13	3	1400.	0.	224.	1536.	0.	224.	1536.	5600.	0.	0.	0.	.27	62.	8.3	A	32.3	4.8
14	2	1320.	0.	0.	1312.	0.	0.	1312.	4400.	0.	0.	0.	.30	62.	10.6	A	14.9	4.8
15	3	540.	484.	704.	1796.	484.	704.	1796.	5304.	296.	0.	0.	.34	62.	9.7	A	12.6	4.8
16	2	1230.	0.	0.	1092.	0.	0.	1092.	4400.	0.	0.	0.	.25	62.	8.8	A	19.9	4.8
17	2	890.	448.	0.	1540.	448.	0.	1540.	4400.	0.	0.	0.	.35	62.	12.4	B	19.9	4.8
18	3	4840.	120.	204.	1660.	120.	204.	1660.	5600.	0.	0.	0.	.30	62.	8.9	A	17.2	4.8
19	2	530.	0.	0.	1456.	0.	0.	1456.	3800.	0.	0.	0.	.38	62.	11.7	B	19.9	4.8
20	2	1040.	260.	0.	1716.	260.	0.	1716.	4400.	0.	0.	0.	.39	62.	13.8	B	19.9	4.8
21	3	2810.	224.	532.	1940.	224.	532.	1940.	5600.	0.	0.	0.	.35	62.	10.4	A	24.1	4.8
22	2	1850.	0.	0.	1408.	0.	0.	1408.	4400.	0.	0.	0.	.32	62.	11.4	B	17.2	4.8
23	3	2390.	172.	28.	1580.	172.	28.	1580.	5600.	0.	0.	0.	.28	62.	8.5	A	24.1	4.8
24	3	960.	0.	812.	1552.	0.	812.	1552.	5600.	0.	0.	0.	.28	62.	8.3	A	17.2	4.8
25	2	1400.	0.	740.	740.	0.	740.	740.	3600.	0.	0.	0.	.21	62.	6.0	A	19.9	4.8
TOTAL		53000. =	10.0 MILES									MAX(V/C) = 0.39		LOWEST LOS = B		AVG = 62.	8.4	17.1	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	53. VEH-HRS	66. PASS-HRS	3346. VEH-HRS	4163. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	696. VEH-HRS	866. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	53. VEH-HRS	66. PASS-HRS	4042. VEH-HRS	5029. PASS-HRS
TOTAL TRAV DISTANCE =	3285. VEH-MI.	4086. PASS-MI.	187312. VEH-MI.	233017. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		56. MPH.	
AVERAGE DENSITY =	8. VPMPL		22. VPMPL	
TOTAL FUEL =	192. GALLONS		11268. GALLONS	
TOTAL EMISSIONS =	16. KILOGRAMS		878. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
1	162.	202.	0.	0.	162.	202.	9580.	11918.	59.0	547.	2.	26.	12.	6:00
2	182.	227.	0.	0.	182.	227.	9647.	12001.	52.9	559.	2.	27.	12.	6:15
3	204.	254.	3.	4.	207.	257.	10011.	12454.	48.4	584.	2.	28.	12.	6:30
4	191.	237.	12.	15.	202.	252.	9230.	11482.	45.6	553.	2.	29.	11.	6:45
5	207.	257.	16.	19.	222.	277.	9653.	12008.	43.4	581.	2.	30.	12.	7:00
6	205.	255.	16.	20.	221.	275.	9398.	11691.	42.5	561.	2.	29.	11.	7:15
7	210.	261.	17.	21.	227.	282.	9764.	12146.	43.0	576.	2.	28.	11.	7:30
8	187.	232.	23.	29.	210.	261.	9512.	11833.	45.3	564.	2.	29.	11.	7:45
9	156.	195.	30.	38.	187.	232.	9106.	11328.	48.7	547.	2.	30.	12.	8:00
10	138.	172.	31.	38.	169.	210.	8558.	10646.	50.7	519.	2.	29.	11.	8:15
11	148.	185.	33.	41.	181.	226.	9137.	11366.	50.4	550.	2.	29.	12.	8:30
12	138.	171.	43.	53.	180.	225.	8522.	10601.	47.2	520.	2.	29.	11.	8:45
13	157.	196.	57.	71.	214.	267.	9535.	11861.	44.5	570.	2.	29.	12.	9:00
14	141.	175.	70.	87.	211.	262.	8679.	10797.	41.1	543.	2.	30.	12.	9:15
15	137.	170.	81.	101.	218.	271.	8458.	10522.	38.9	533.	2.	31.	11.	9:30
16	119.	148.	80.	100.	199.	248.	7387.	9189.	37.1	471.	2.	27.	10.	9:45
17	103.	128.	72.	90.	176.	218.	6404.	7967.	36.5	405.	2.	24.	9.	10:00
18	102.	127.	61.	76.	163.	203.	6327.	7871.	38.7	399.	1.	23.	9.	10:15
19	99.	123.	39.	48.	138.	171.	6154.	7655.	44.7	379.	1.	22.	8.	10:30
20	87.	108.	12.	15.	99.	123.	5371.	6681.	54.4	324.	1.	18.	7.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	78.	97.	0.	0.	78.	97.	4813.	5988.	61.7	282.	1.	16.	6.	11:00
22	77.	96.	0.	0.	77.	96.	4790.	5959.	62.0	278.	1.	16.	6.	11:15
23	64.	80.	0.	0.	64.	80.	3994.	4968.	62.0	232.	1.	13.	5.	11:30
24	53.	66.	0.	0.	53.	66.	3285.	4086.	62.0	192.	1.	11.	4.	11:45
TOTAL	3346.	4163.	696.	866.	4042.	5029.	187312.	233017.	56.0	11268.	38.	602.	238.	

Opening Year (2025) Final Build
(Aux Lanes and BOS)
Southbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	888.	0.	888.	888.	0.	888.	3850.	0.	0.	0.	.23	50.	8.9	A	17.4	2.3
2	2	2070.	260.	0.	1148.	260.	0.	1148.	3850.	0.	0.	0.	.30	50.	11.5	B	15.9	2.3
3	3	2300.	364.	52.	1512.	364.	52.	1512.	5700.	0.	0.	0.	.27	55.	9.2	A	14.0	2.4
4	3	1020.	0.	0.	1460.	0.	0.	1460.	5700.	0.	0.	0.	.26	62.	7.8	A	19.9	4.8
5	3	710.	108.	0.	1568.	108.	0.	1568.	5700.	0.	0.	0.	.28	62.	8.4	A	16.1	4.4
6	3	3820.	72.	200.	1640.	72.	200.	1640.	6150.	0.	0.	0.	.27	62.	8.8	A	17.1	4.8
7	2	1220.	0.	0.	1440.	0.	0.	1440.	4400.	0.	0.	0.	.33	62.	11.6	B	18.2	4.4
8	3	4810.	204.	136.	1644.	204.	136.	1644.	6100.	0.	0.	0.	.27	62.	8.8	A	20.6	4.4
9	2	1370.	0.	0.	1508.	0.	0.	1508.	4000.	0.	0.	0.	.38	62.	12.2	B	23.6	4.4
10	2	660.	96.	0.	1604.	96.	0.	1604.	4398.	2.	0.	0.	.36	62.	12.9	B	23.6	4.4
11	3	790.	212.	104.	1816.	212.	104.	1816.	6098.	2.	0.	0.	.30	62.	9.8	A	30.0	4.4
12	2	1460.	0.	0.	1712.	0.	0.	1712.	4100.	0.	0.	0.	.42	62.	13.8	B	20.6	4.4
13	3	1400.	112.	0.	1824.	112.	0.	1824.	6097.	3.	0.	0.	.30	62.	9.8	A	13.6	4.4
14	3	2600.	0.	44.	1824.	0.	44.	1824.	6097.	3.	0.	0.	.30	62.	9.8	A	20.6	4.4
15	2	2010.	0.	0.	1780.	0.	0.	1780.	3900.	0.	0.	0.	.46	62.	14.4	B	14.7	4.4
16	3	6120.	136.	88.	1916.	136.	88.	1916.	6100.	0.	0.	0.	.31	62.	10.3	A	18.2	4.4
17	2	1240.	0.	0.	1828.	0.	0.	1828.	4300.	0.	0.	0.	.43	62.	14.7	B	18.2	4.4
18	3	930.	56.	0.	1884.	56.	0.	1884.	6100.	0.	0.	0.	.31	62.	10.1	A	20.6	4.4
19	3	5330.	64.	64.	1948.	64.	64.	1948.	6100.	0.	0.	0.	.32	62.	10.5	A	20.6	4.4
20	2	2830.	0.	0.	1884.	0.	0.	1884.	3800.	0.	0.	0.	.50	61.	15.4	B	21.1	3.8
21	3	1660.	160.	140.	2044.	160.	140.	2044.	6100.	0.	0.	0.	.34	61.	11.2	B	21.1	3.8
22	2	2270.	0.	0.	1904.	0.	0.	1904.	4400.	0.	0.	0.	.43	62.	15.4	B	20.6	4.4
23	2	3040.	20.	56.	1924.	20.	56.	1924.	4100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
24	2	2190.	0.	0.	1868.	0.	0.	1868.	4200.	0.	0.	0.	.44	65.	14.4	B	19.2	6.1
25	3	2400.	56.	1924.	1924.	56.	1924.	1924.	6150.	0.	0.	0.	.31	65.	9.9	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.50		LOWEST LOS = B	AVG = 61.	11.3		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	74. VEH-HRS	86. PASS-HRS	74. VEH-HRS	86. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	74. VEH-HRS	86. PASS-HRS	74. VEH-HRS	86. PASS-HRS
TOTAL TRAV DISTANCE =	4569. VEH-MI.	5300. PASS-MI.	4569. VEH-MI.	5300. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	11. VPMPL		11. VPMPL	
TOTAL FUEL =	242. GALLONS		242. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		20. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1268.	0.	1268.	1268.	0.	1268.	3850.	0.	0.	0.	.33	50.	12.7	B	17.4	2.3
2	2	2070.	264.	0.	1532.	264.	0.	1532.	3850.	0.	0.	0.	.40	50.	15.3	B	15.9	2.3
3	3	2300.	536.	52.	2068.	536.	52.	2068.	5700.	0.	0.	0.	.36	55.	12.5	B	14.0	2.4
4	3	1020.	0.	0.	2016.	0.	0.	2016.	5700.	0.	0.	0.	.35	62.	10.8	A	19.9	4.8
5	3	710.	64.	0.	2080.	64.	0.	2080.	5700.	0.	0.	0.	.36	62.	11.2	B	16.1	4.4
6	3	3820.	92.	216.	2172.	92.	216.	2172.	6150.	0.	0.	0.	.35	62.	11.7	B	17.1	4.8
7	2	1220.	0.	0.	1956.	0.	0.	1956.	4400.	0.	0.	0.	.44	62.	15.8	B	18.2	4.4
8	3	4810.	188.	148.	2144.	188.	148.	2144.	6100.	0.	0.	0.	.35	62.	11.5	B	20.6	4.4
9	2	1370.	0.	0.	1996.	0.	0.	1996.	4000.	0.	0.	0.	.50	62.	16.1	B	23.6	4.4
10	2	660.	52.	0.	2048.	52.	0.	2048.	4398.	2.	0.	0.	.47	62.	16.5	B	23.6	4.4
11	3	790.	160.	116.	2208.	160.	116.	2208.	6098.	2.	0.	0.	.36	62.	11.9	B	30.0	4.4
12	2	1460.	0.	0.	2092.	0.	0.	2092.	4100.	0.	0.	0.	.51	62.	16.9	B	20.6	4.4
13	3	1400.	124.	0.	2216.	124.	0.	2216.	6096.	4.	0.	0.	.36	62.	11.9	B	13.6	4.4
14	3	2600.	0.	52.	2216.	0.	52.	2216.	6096.	4.	0.	0.	.36	62.	11.9	B	20.6	4.4
15	2	2010.	0.	0.	2164.	0.	0.	2164.	3900.	0.	0.	0.	.55	62.	17.5	B	14.7	4.4
16	3	6120.	120.	132.	2284.	120.	132.	2284.	6100.	0.	0.	0.	.37	62.	12.3	B	18.2	4.4
17	2	1240.	0.	0.	2152.	0.	0.	2152.	4300.	0.	0.	0.	.50	62.	17.4	B	18.2	4.4
18	3	930.	88.	0.	2240.	88.	0.	2240.	6100.	0.	0.	0.	.37	62.	12.0	B	20.6	4.4
19	3	5330.	84.	80.	2324.	84.	80.	2324.	6100.	0.	0.	0.	.38	62.	12.5	B	20.6	4.4
20	2	2830.	0.	0.	2244.	0.	0.	2244.	3800.	0.	0.	0.	.59	61.	18.4	C	21.1	3.8
21	3	1660.	148.	116.	2392.	148.	116.	2392.	6100.	0.	0.	0.	.39	61.	13.1	B	21.1	3.8
22	2	2270.	0.	0.	2276.	0.	0.	2276.	4400.	0.	0.	0.	.52	62.	18.4	C	20.6	4.4
23	2	3040.	64.	88.	2340.	64.	88.	2340.	4100.	0.	0.	0.	.57	62.	18.9	C	20.6	4.4
24	2	2190.	0.	0.	2252.	0.	0.	2252.	4200.	0.	0.	0.	.54	65.	17.3	B	19.2	6.1
25	3	2400.	76.	2328.	2328.	76.	2328.	2328.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES						MAX(V/C) = 0.59		LOWEST LOS = C		AVG = 61.		14.0		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	92. VEH-HRS	107. PASS-HRS	166. VEH-HRS	193. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	92. VEH-HRS	107. PASS-HRS	166. VEH-HRS	193. PASS-HRS
TOTAL TRAV DISTANCE =	5655. VEH-MI.	6559. PASS-MI.	10224. VEH-MI.	11859. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	14. VPMPL		13. VPMPL	
TOTAL FUEL =	300. GALLONS		542. GALLONS	
TOTAL EMISSIONS =	25. KILOGRAMS		45. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1816.	0.	1816.	1816.	0.	1816.	3850.	0.	0.	0.	.47	50.	18.2	C	17.4	2.3
2	2	2070.	364.	0.	2180.	364.	0.	2180.	3848.	2.	0.	0.	.57	50.	21.8	C	15.9	2.3
3	3	2300.	744.	76.	2924.	744.	76.	2924.	5690.	10.	0.	0.	.51	55.	17.7	B	14.0	2.4
4	3	1020.	0.	0.	2848.	0.	0.	2848.	5700.	0.	0.	0.	.50	62.	15.3	B	19.9	4.8
5	3	710.	120.	0.	2968.	120.	0.	2968.	5700.	0.	0.	0.	.52	62.	16.0	B	16.1	4.4
6	3	3820.	144.	416.	3112.	144.	416.	3112.	6150.	0.	0.	0.	.51	62.	16.7	B	17.1	4.8
7	2	1220.	0.	0.	2696.	0.	0.	2696.	4400.	0.	0.	0.	.61	62.	21.7	C	18.2	4.4
8	3	4810.	292.	220.	2988.	292.	220.	2988.	6100.	0.	0.	0.	.49	62.	16.1	B	20.6	4.4
9	2	1370.	0.	0.	2768.	0.	0.	2768.	4000.	0.	0.	0.	.69	62.	22.3	C	23.6	4.4
10	2	660.	112.	0.	2880.	112.	0.	2880.	4398.	2.	0.	0.	.65	62.	23.2	C	23.6	4.4
11	3	790.	344.	156.	3224.	344.	156.	3224.	6042.	58.	0.	0.	.53	62.	17.3	B	30.0	4.4
12	2	1460.	0.	0.	3068.	0.	0.	3068.	4100.	0.	0.	0.	.75	62.	24.7	C	20.6	4.4
13	3	1400.	240.	0.	3308.	240.	0.	3308.	6092.	8.	0.	0.	.54	62.	17.8	B	13.6	4.4
14	3	2600.	0.	96.	3308.	0.	96.	3308.	6092.	8.	0.	0.	.54	62.	17.8	B	20.6	4.4
15	2	2010.	0.	0.	3212.	0.	0.	3212.	3900.	0.	0.	0.	.82	60.	26.5	D	15.2	3.5
16	3	6120.	132.	120.	3344.	132.	120.	3344.	6100.	0.	0.	0.	.55	62.	18.0	B	18.2	4.4
17	2	1240.	0.	0.	3224.	0.	0.	3224.	4300.	0.	0.	0.	.75	62.	26.1	D	18.3	4.2
18	3	930.	140.	0.	3364.	140.	0.	3364.	6100.	0.	0.	0.	.55	62.	18.1	C	20.6	4.4
19	3	5330.	92.	120.	3456.	92.	120.	3456.	6098.	2.	0.	0.	.57	62.	18.6	C	20.6	4.4
20	2	2830.	0.	0.	3336.	0.	0.	3336.	3800.	0.	0.	0.	.88	58.	28.6	D	22.1	2.8
21	3	1660.	160.	188.	3496.	160.	188.	3496.	6100.	0.	0.	0.	.57	61.	19.1	C	21.1	3.8
22	2	2270.	0.	0.	3308.	0.	0.	3308.	4400.	0.	0.	0.	.75	62.	26.8	D	20.7	4.2
23	2	3040.	96.	56.	3404.	96.	56.	3404.	4100.	0.	0.	0.	.83	60.	28.2	D	21.4	3.4
24	2	2190.	0.	0.	3348.	0.	0.	3348.	4200.	0.	0.	0.	.80	63.	26.5	D	20.0	5.1
25	3	2400.	84.	3432.	3432.	84.	3432.	3432.	6150.	0.	0.	0.	.56	65.	17.6	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.88		LOWEST LOS = D	AVG = 61.	20.6		19.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	301. VEH-HRS	350. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	301. VEH-HRS	350. PASS-HRS
TOTAL TRAV DISTANCE =	8229. VEH-MI.	9546. PASS-MI.	18453. VEH-MI.	21405. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		15. VPMPL	
TOTAL FUEL =	433. GALLONS		975. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		79. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2384.	0.	2384.	2384.	0.	2384.	3850.	0.	0.	0.	.62	50.	23.8	C	17.4	2.3
2	2	2070.	500.	0.	2884.	500.	0.	2884.	3844.	6.	0.	0.	.75	50.	28.8	D	15.9	2.3
3	3	2300.	884.	108.	3768.	884.	108.	3768.	5655.	45.	0.	0.	.67	55.	22.8	C	14.0	2.4
4	3	1020.	0.	0.	3660.	0.	0.	3660.	5700.	0.	0.	0.	.64	62.	19.7	C	19.9	4.8
5	3	710.	168.	0.	3828.	168.	0.	3828.	5700.	0.	0.	0.	.67	62.	20.6	C	16.1	4.4
6	3	3820.	284.	688.	4112.	284.	688.	4112.	6150.	0.	0.	0.	.67	62.	22.1	C	17.1	4.8
7	2	1220.	0.	0.	3424.	0.	0.	3424.	4400.	0.	0.	0.	.78	61.	27.9	D	18.4	4.0
8	3	4810.	348.	340.	3772.	348.	340.	3772.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	3432.	0.	0.	3432.	4000.	0.	0.	0.	.86	59.	28.8	D	25.0	3.1
10	2	660.	128.	0.	3560.	128.	0.	3560.	4395.	5.	0.	0.	.81	61.	29.3	D	24.3	3.7
11	3	790.	356.	356.	3916.	356.	356.	3916.	5818.	282.	0.	0.	.67	62.	21.1	C	30.0	4.4
12	2	1460.	0.	0.	3560.	0.	0.	3560.	4100.	0.	0.	0.	.87	59.	30.1	D	21.9	3.0
13	3	1400.	244.	0.	3804.	244.	0.	3804.	6084.	16.	0.	0.	.63	62.	20.5	C	13.6	4.4
14	3	2600.	0.	232.	3804.	0.	232.	3804.	6084.	16.	0.	0.	.63	62.	20.5	C	20.6	4.4
15	2	2010.	0.	0.	3572.	0.	0.	3572.	3900.	0.	0.	0.	.92	57.	31.3	D	15.9	2.5
16	3	6120.	276.	228.	3848.	276.	228.	3848.	6100.	0.	0.	0.	.63	62.	20.7	C	18.2	4.4
17	2	1240.	0.	0.	3620.	0.	0.	3620.	4300.	0.	0.	0.	.84	60.	30.2	D	19.1	3.2
18	3	930.	180.	0.	3800.	180.	0.	3800.	6100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
19	3	5330.	156.	148.	3956.	156.	148.	3948.	6095.	5. *	40.	8.	.65	61.	21.6	F	20.5	4.4
20	2	2830.	0.	0.	3808.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	356.	404.	4164.	356.	403.	4156.	6100.	0.	0.	0.	.68	61.	22.7	C	21.1	3.8
22	2	2270.	0.	0.	3760.	0.	0.	3753.	4400.	0.	0.	0.	.85	60.	31.5	D	21.7	3.1
23	2	3040.	112.	96.	3872.	112.	96.	3865.	4100.	0.	0.	0.	.94	56.	34.8	D	23.0	2.1
24	2	2190.	0.	0.	3776.	0.	0.	3769.	4200.	0.	0.	0.	.90	59.	31.8	D	21.8	3.0
25	3	2400.	92.	3868.	3868.	92.	3861.	3861.	6150.	0.	0.	0.	.63	65.	19.8	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 60.	25.1		19.3	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	164. VEH-HRS	190. PASS-HRS	465. VEH-HRS	540. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	164. VEH-HRS	190. PASS-HRS	465. VEH-HRS	540. PASS-HRS
TOTAL TRAV DISTANCE =	9761. VEH-MI.	11322. PASS-MI.	28213. VEH-MI.	32727. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		18. VPMPL	
TOTAL FUEL =	506. GALLONS		1481. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		116. KILOGRAMS	

QUEUE CLEAR SECTION 19 FT= 0

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1124.	0.	1124.	1124.	0.	1124.	3850.	0.	0.	0.	.29	50.	11.2	B	17.4	2.3
2	2	2070.	640.	0.	1764.	640.	0.	1764.	3850.	0.	0.	0.	.46	50.	17.6	B	15.9	2.3
3	3	2300.	1084.	172.	2848.	1084.	172.	2848.	5619.	81.	0.	0.	.51	55.	17.3	B	14.0	2.4
4	3	1020.	0.	0.	2676.	0.	0.	2676.	5700.	0.	0.	0.	.47	62.	14.4	B	19.9	4.8
5	3	710.	172.	0.	2848.	172.	0.	2848.	5700.	0.	0.	0.	.50	62.	15.3	B	16.1	4.4
6	3	3820.	388.	628.	3236.	388.	628.	3236.	6150.	0.	0.	0.	.53	62.	17.4	B	17.1	4.8
7	2	1220.	0.	0.	2608.	0.	0.	2608.	4400.	0.	0.	0.	.59	62.	21.0	C	18.2	4.4
8	3	4810.	444.	380.	3052.	444.	380.	3052.	6100.	0.	0.	0.	.50	62.	16.4	B	20.6	4.4
9	2	1370.	0.	0.	2672.	0.	0.	2672.	4000.	0.	0.	0.	.67	62.	21.5	C	23.6	4.4
10	2	660.	140.	0.	2812.	140.	0.	2812.	4391.	9.	0.	0.	.64	62.	22.7	C	23.6	4.4
11	3	790.	564.	484.	3376.	564.	484.	3376.	5685.	415.	0.	0.	.59	62.	18.2	C	30.0	4.4
12	2	1460.	0.	0.	2892.	0.	0.	2892.	4100.	0.	0.	0.	.71	62.	23.3	C	20.6	4.4
13	3	1400.	352.	0.	3244.	352.	0.	3244.	6076.	24.	0.	0.	.53	62.	17.4	B	13.6	4.4
14	3	2600.	0.	236.	3244.	0.	236.	3244.	6076.	24.	0.	0.	.53	62.	17.4	B	20.6	4.4
15	2	2010.	0.	0.	3008.	0.	0.	3008.	3900.	0.	0.	0.	.77	62.	24.3	C	14.7	4.4
16	3	6120.	296.	324.	3304.	296.	324.	3304.	6100.	0.	0.	0.	.54	62.	17.8	B	18.2	4.4
17	2	1240.	0.	0.	2980.	0.	0.	2980.	4300.	0.	0.	0.	.69	62.	24.0	C	18.2	4.4
18	3	930.	248.	0.	3228.	248.	0.	3228.	6100.	0.	0.	0.	.53	62.	17.4	B	20.6	4.4
19	3	5330.	216.	268.	3444.	216.	268.	3453.	6091.	9.	0.	-9.	.57	61.	19.0	C	20.5	4.4
20	2	2830.	0.	0.	3176.	0.	0.	3185.	3800.	0.	0.	0.	.84	59.	26.8	D	21.8	3.1
21	3	1660.	584.	444.	3760.	584.	445.	3769.	5950.	150.	0.	0.	.63	61.	20.6	C	21.1	3.8
22	2	2270.	0.	0.	3316.	0.	0.	3324.	4400.	0.	0.	0.	.76	62.	27.0	D	20.8	4.1
23	2	3040.	144.	128.	3460.	144.	128.	3468.	4100.	0.	0.	0.	.85	60.	29.0	D	21.7	3.2
24	2	2190.	0.	0.	3332.	0.	0.	3340.	4200.	0.	0.	0.	.80	63.	26.4	D	20.0	5.1
25	3	2400.	120.	3452.	3452.	120.	3460.	3460.	6150.	0.	0.	0.	.56	65.	17.7	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.85 LOWEST LOS = D AVG = 61. 20.2 19.0 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	133. VEH-HRS	154. PASS-HRS	598. VEH-HRS	694. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	133. VEH-HRS	154. PASS-HRS	598. VEH-HRS	694. PASS-HRS
TOTAL TRAV DISTANCE =	8116. VEH-MI.	9415. PASS-MI.	36330. VEH-MI.	42142. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		18. VPMPL	
TOTAL FUEL =	427. GALLONS		1908. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		151. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1376.	0.	1376.	1376.	0.	1376.	3850.	0.	0.	0.	.36	50.	13.8	B	17.4	2.3
2	2	2070.	780.	0.	2156.	780.	0.	2156.	3850.	0.	0.	0.	.56	50.	21.6	C	15.9	2.3
3	3	2300.	1460.	248.	3616.	1460.	248.	3616.	5552.	148.	0.	0.	.65	55.	21.9	C	14.0	2.4
4	3	1020.	0.	0.	3368.	0.	0.	3368.	5700.	0.	0.	0.	.59	62.	18.1	C	19.9	4.8
5	3	710.	248.	0.	3616.	248.	0.	3616.	5700.	0.	0.	0.	.63	62.	19.4	C	16.1	4.4
6	3	3820.	388.	876.	4004.	388.	876.	4004.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3128.	0.	0.	3128.	4400.	0.	0.	0.	.71	62.	25.3	C	18.2	4.3
8	3	4810.	500.	396.	3628.	500.	396.	3628.	6100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
9	2	1370.	0.	0.	3232.	0.	0.	3232.	4000.	0.	0.	0.	.81	61.	26.6	D	24.3	3.7
10	2	660.	184.	0.	3416.	184.	0.	3416.	4387.	13.	0.	0.	.78	61.	27.8	D	24.0	4.0
11	3	790.	520.	568.	3936.	520.	568.	3936.	5641.	459.	0.	0.	.70	62.	21.2	C	30.0	4.4
12	2	1460.	0.	0.	3368.	0.	0.	3368.	4100.	0.	0.	0.	.82	61.	27.8	D	21.3	3.5
13	3	1400.	448.	0.	3816.	448.	0.	3816.	6040.	60.	0.	0.	.63	62.	20.5	C	13.6	4.4
14	3	2600.	0.	516.	3816.	0.	516.	3816.	6040.	60.	0.	0.	.63	62.	20.5	C	20.6	4.4
15	2	2010.	0.	0.	3300.	0.	0.	3300.	3900.	0.	0.	0.	.85	60.	27.6	D	15.4	3.2
16	3	6120.	420.	356.	3720.	420.	356.	3720.	6100.	0.	0.	0.	.61	62.	20.0	C	18.2	4.4
17	2	1240.	0.	0.	3364.	0.	0.	3364.	4300.	0.	0.	0.	.78	61.	27.4	D	18.5	4.0
18	3	930.	360.	0.	3724.	360.	0.	3724.	6100.	0.	0.	0.	.61	62.	20.0	C	20.6	4.4
19	3	5330.	184.	348.	3908.	184.	348.	3908.	6082.	18.	0.	0.	.64	62.	21.0	C	20.6	4.4
20	2	2830.	0.	0.	3560.	0.	0.	3560.	3800.	0.	0.	0.	.94	56.	32.0	D	23.0	2.1
21	3	1660.	592.	612.	4152.	592.	612.	4152.	5772.	328.	0.	0.	.72	61.	22.7	C	21.1	3.8
22	2	2270.	0.	0.	3540.	0.	0.	3540.	4400.	0.	0.	0.	.80	61.	29.1	D	21.1	3.7
23	2	3040.	328.	212.	3868.	328.	212.	3868.	4100.	0.	0.	0.	.94	56.	34.8	D	23.0	2.1
24	2	2190.	0.	0.	3656.	0.	0.	3656.	4200.	0.	0.	0.	.87	61.	30.1	D	21.3	3.6
25	3	2400.	152.	3808.	3808.	152.	3808.	3808.	6150.	0.	0.	0.	.62	65.	19.5	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.94		LOWEST LOS = D	AVG = 60.	23.6		19.2	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	155. VEH-HRS	180. PASS-HRS	753. VEH-HRS	874. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	155. VEH-HRS	180. PASS-HRS	753. VEH-HRS	874. PASS-HRS
TOTAL TRAV DISTANCE =	9364. VEH-MI.	10863. PASS-MI.	45694. VEH-MI.	53005. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		19. VPMPL	
TOTAL FUEL =	488. GALLONS		2396. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		188. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1216.	0.	1216.	1216.	0.	1216.	3850.	0.	0.	0.	.32	50.	12.2	B	17.4	2.3
2	2	2070.	1048.	0.	2264.	1048.	0.	2264.	3850.	0.	0.	0.	.59	50.	22.6	C	15.9	2.3
3	3	2300.	1704.	304.	3968.	1704.	304.	3968.	5528.	172.	0.	0.	.72	55.	24.0	C	14.0	2.4
4	3	1020.	0.	0.	3664.	0.	0.	3664.	5700.	0.	0.	0.	.64	62.	19.7	C	19.9	4.8
5	3	710.	336.	0.	4000.	336.	0.	4000.	5700.	0.	0.	0.	.70	62.	21.5	C	16.1	4.4
6	3	3820.	420.	848.	4420.	420.	848.	4420.	6150.	0.	0.	0.	.72	62.	23.8	C	17.1	4.8
7	2	1220.	0.	0.	3572.	0.	0.	3572.	4400.	0.	0.	0.	.81	61.	29.4	D	18.7	3.6
8	3	4810.	720.	504.	4292.	720.	504.	4292.	6100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
9	2	1370.	0.	0.	3788.	0.	0.	3788.	4000.	0.	0.	0.	.95	55.	34.2	D	26.9	2.1
10	2	660.	268.	0.	4056.	268.	0.	4056.	4384.	16.	0.	0.	.93	57.	35.9	E	26.3	2.4
11	3	790.	648.	612.	4704.	648.	612.	4704.	5552.	548.	0.	0.	.85	60.	26.2	D	31.8	3.1
12	2	1460.	0.	0.	4092.	0.	0.	4092.	4100.	0.	0.	0.	.99	52.	39.6	E	23.9	2.0
13	3	1400.	428.	0.	4520.	428.	0.	4520.	6000.	100.	0.	0.	.75	62.	24.3	C	13.6	4.4
14	3	2600.	0.	1044.	4520.	0.	1044.	4520.	6000.	100.	0.	0.	.75	62.	24.3	C	20.6	4.4
15	2	2010.	0.	0.	3476.	0.	0.	3476.	3900.	0.	0.	0.	.89	58.	29.9	D	15.7	2.8
16	3	6120.	504.	360.	3980.	504.	360.	3980.	6100.	0.	0.	0.	.65	62.	21.4	C	18.2	4.4
17	2	1240.	0.	0.	3620.	0.	0.	3620.	4300.	0.	0.	0.	.84	60.	30.2	D	19.1	3.2
18	3	930.	268.	0.	3888.	268.	0.	3888.	6099.	1.	0.	0.	.64	62.	20.9	C	20.6	4.4
19	3	5330.	160.	304.	4048.	160.	304.	4048.	6087.	13.	0.	0.	.66	62.	21.8	C	20.6	4.4
20	2	2830.	0.	0.	3744.	0.	0.	3744.	3800.	0.	0.	0.	.99	52.	35.7	E	23.7	2.0
21	3	1660.	516.	432.	4260.	516.	432.	4260.	5986.	114.	0.	0.	.71	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	3828.	0.	0.	3772.	4400.	0. *	766.	56.	.86	47.	40.0	F	21.5	3.1
23	2	3040.	328.	220.	4156.	328.	217.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
24	2	2190.	0.	0.	3936.	0.	0.	3883.	4200.	0.	0.	0.	.92	58.	33.6	D	22.3	2.7
25	3	2400.	208.	4144.	4144.	208.	4091.	4091.	6150.	0.	0.	0.	.67	65.	21.0	C	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 59. 26.8 19.5 3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	175. VEH-HRS	203. PASS-HRS	929. VEH-HRS	1077. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	175. VEH-HRS	203. PASS-HRS	929. VEH-HRS	1077. PASS-HRS
TOTAL TRAV DISTANCE =	10259. VEH-MI.	11900. PASS-MI.	55953. VEH-MI.	64905. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	27. VPMPL		20. VPMPL	
TOTAL FUEL =	527. GALLONS		2923. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		226. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1524.	0.	1524.	1524.	0.	1524.	3850.	0.	0.	0.	.40	50.	15.2	B	17.4	2.3
2	2	2070.	988.	0.	2512.	988.	0.	2512.	3846.	4.	0.	0.	.65	50.	25.1	C	15.9	2.3
3	3	2300.	1720.	344.	4232.	1720.	344.	4232.	5492.	208.	0.	0.	.77	55.	25.6	C	14.0	2.4
4	3	1020.	0.	0.	3888.	0.	0.	3888.	5700.	0.	0.	0.	.68	62.	20.9	C	19.9	4.8
5	3	710.	384.	0.	4272.	384.	0.	4272.	5700.	0.	0.	0.	.75	62.	23.0	C	16.1	4.4
6	3	3820.	460.	932.	4732.	460.	932.	4732.	6132.	18.	0.	0.	.77	61.	25.7	C	17.3	4.5
7	2	1220.	0.	0.	3800.	0.	0.	3800.	4400.	0.	0.	0.	.86	59.	32.0	D	19.2	3.0
8	3	4810.	720.	536.	4520.	720.	536.	4300.	6100.	0.	* 546.	220.	.70	58.	24.9	F	20.4	4.4
9	2	1370.	0.	0.	3984.	0.	0.	3764.	4000.	0.	** 1370.	220.	.94	39.	48.2	F	28.3	2.4
10	2	660.	348.	0.	4332.	348.	0.	4112.	4376.	24.	** 660.	220.	.94	36.	56.8	F	28.3	2.5
11	3	790.	724.	736.	5056.	724.	736.	4836.	5452.	648.	** 790.	220.	.89	28.	57.6	F	33.8	3.2
12	2	1460.	0.	0.	4320.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	460.	0.	4780.	460.	0.	4560.	5980.	120.	0.	0.	.76	62.	24.5	C	13.6	4.4
14	3	2600.	0.	1260.	4780.	0.	1202.	4560.	5980.	120.	0.	0.	.76	62.	24.5	C	20.6	4.4
15	2	2010.	0.	0.	3520.	0.	0.	3358.	3900.	0.	0.	0.	.86	59.	28.3	D	15.5	3.0
16	3	6120.	556.	440.	4076.	556.	422.	3914.	6100.	0.	0.	0.	.64	62.	21.0	C	18.2	4.4
17	2	1240.	0.	0.	3636.	0.	0.	3492.	4300.	0.	0.	0.	.81	61.	28.7	D	18.7	3.6
18	3	930.	328.	0.	3964.	328.	0.	3820.	6099.	1.	0.	0.	.63	62.	20.5	C	20.6	4.4
19	3	5330.	164.	368.	4128.	164.	355.	3984.	6083.	17.	0.	0.	.65	62.	21.4	C	20.6	4.4
20	2	2830.	0.	0.	3760.	0.	0.	3628.	3800.	0.	0.	0.	.95	54.	33.3	D	23.3	2.0
21	3	1660.	696.	504.	4456.	696.	489.	4324.	5824.	276.	0.	0.	.74	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	3952.	0.	0.	3796.	4400.	0.	* 1316.	39.	.86	35.	53.8	F	20.9	3.2
23	2	3040.	304.	356.	4256.	304.	343.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
24	2	2190.	0.	0.	3900.	0.	0.	3757.	4200.	0.	0.	0.	.89	59.	31.6	D	21.8	3.1
25	3	2400.	212.	4112.	4112.	212.	3969.	3969.	6150.	0.	0.	0.	.65	65.	20.4	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 55.	28.6		19.4	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	188. VEH-HRS	218. PASS-HRS	1116. VEH-HRS	1295. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	188. VEH-HRS	218. PASS-HRS	1116. VEH-HRS	1295. PASS-HRS
TOTAL TRAV DISTANCE =	10388. VEH-MI.	12050. PASS-MI.	66341. VEH-MI.	76956. PASS-MI.
AVERAGE SYSTEM SPEED =	55. MPH.		59. MPH.	
AVERAGE DENSITY =	29. VPMPL		21. VPMPL	
TOTAL FUEL =	535. GALLONS		3458. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		265. KILOGRAMS	

```
QUEUE SPLIT SECTION 10
QUEUE SPLIT SECTION  9
QUEUE CLEAR SECTION  22 FT=    70
QUEUE CLEAR SECTION  11 T2 =0.244
QUEUE CLEAR SECTION  10 FT=    71
QUEUE CLEAR SECTION   9 T2 =0.218
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2572.	0.	2572.	2572.	0.	2572.	3850.	0.	0.	0.	.67	50.	25.7	C	17.4	2.3
2	2	2070.	844.	0.	3416.	844.	0.	3416.	3824.	26.	0.	0.	.89	50.	34.2	D	15.9	2.3
3	3	2300.	1560.	376.	4976.	1560.	376.	4976.	5411.	289.	0.	0.	.92	55.	30.2	D	14.0	2.4
4	3	1020.	0.	0.	4600.	0.	0.	4600.	5700.	0.	0.	0.	.81	62.	24.7	C	19.9	4.8
5	3	710.	296.	0.	4896.	296.	0.	4896.	5700.	0.	0.	0.	.86	59.	27.4	D	17.0	3.1
6	3	3820.	324.	1152.	5220.	324.	1152.	5220.	6087.	63.	0.	0.	.86	60.	29.2	D	18.1	3.5
7	2	1220.	0.	0.	4068.	0.	0.	4068.	4400.	0.	0.	0.	.92	57.	35.9	E	20.0	2.4
8	3	4810.	632.	820.	4700.	632.	820.	4700.	6100.	0.	0.	0.	.77	57.	27.6	D	20.7	4.1
9	2	1370.	0.	0.	3880.	0.	0.	3999.	4000.	0.	0.	-119.	.99	43.	46.9	F	27.5	2.2
10	2	660.	252.	0.	4132.	252.	0.	4268.	4376.	24.	0.	-17.	.98	42.	50.3	F	27.8	2.2
11	3	790.	672.	1000.	4804.	672.	1028.	5000.	5540.	560.	0.	-59.	.90	38.	44.2	E	33.9	3.0
12	2	1460.	0.	0.	3804.	0.	0.	3971.	4100.	0.	0.	0.	.97	54.	36.8	E	23.4	2.0
13	3	1400.	524.	0.	4328.	524.	0.	4495.	5988.	112.	0.	0.	.75	62.	24.2	C	13.6	4.4
14	3	2600.	0.	920.	4328.	0.	955.	4495.	5988.	112.	0.	0.	.75	62.	24.2	C	20.6	4.4
15	2	2010.	0.	0.	3408.	0.	0.	3540.	3900.	0.	0.	0.	.91	57.	30.8	D	15.9	2.6
16	3	6120.	492.	528.	3900.	492.	546.	4032.	6100.	0.	0.	0.	.66	62.	21.7	C	18.2	4.4
17	2	1240.	0.	0.	3372.	0.	0.	3486.	4300.	0.	0.	0.	.81	61.	28.7	D	18.7	3.6
18	3	930.	348.	0.	3720.	348.	0.	3834.	6099.	1.	0.	0.	.63	62.	20.6	C	20.6	4.4
19	3	5330.	176.	436.	3896.	176.	449.	4010.	6080.	20.	0.	0.	.66	62.	21.6	C	20.6	4.4
20	2	2830.	0.	0.	3460.	0.	0.	3561.	3800.	0.	0.	0.	.94	56.	32.1	D	23.0	2.1
21	3	1660.	496.	416.	3956.	496.	427.	4057.	6009.	91.	0.	0.	.68	61.	22.2	C	21.1	3.8
22	2	2270.	0.	0.	3540.	0.	0.	3729.	4400.	0.	0.	-99.	.85	40.	46.9	F	20.7	3.6
23	2	3040.	144.	312.	3684.	144.	328.	3873.	4100.	0.	0.	0.	.94	55.	34.9	D	23.0	2.1
24	2	2190.	0.	0.	3372.	0.	0.	3545.	4200.	0.	0.	0.	.84	62.	28.7	D	20.7	4.2
25	3	2400.	216.	3588.	3588.	216.	3761.	3761.	6150.	0.	0.	0.	.61	65.	19.3	C	18.6	6.6
TOTAL		54750. =	10.4 MILES									MAX(V/C) = 0.99	LOWEST LOS = F	AVG = 57.	28.9		19.3	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	189. VEH-HRS	220. PASS-HRS	1306. VEH-HRS	1515. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	189. VEH-HRS	220. PASS-HRS	1306. VEH-HRS	1515. PASS-HRS
TOTAL TRAV DISTANCE =	10710. VEH-MI.	12423. PASS-MI.	77051. VEH-MI.	89379. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		59. MPH.	
AVERAGE DENSITY =	29. VPMPL		22. VPMPL	
TOTAL FUEL =	554. GALLONS		4012. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		303. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1164.	0.	1164.	1164.	0.	1164.	3850.	0.	0.	0.	.30	50.	11.6	B	17.4	2.3
2	2	2070.	860.	0.	2024.	860.	0.	2024.	3850.	0.	0.	0.	.53	50.	20.2	C	15.9	2.3
3	3	2300.	1664.	392.	3688.	1664.	392.	3688.	5484.	216.	0.	0.	.67	55.	22.4	C	14.0	2.4
4	3	1020.	0.	0.	3296.	0.	0.	3296.	5700.	0.	0.	0.	.58	62.	17.7	B	19.9	4.8
5	3	710.	312.	0.	3608.	312.	0.	3608.	5700.	0.	0.	0.	.63	62.	19.4	C	16.1	4.4
6	3	3820.	480.	1088.	4088.	480.	1088.	4088.	6080.	70.	0.	0.	.67	62.	22.0	C	17.1	4.8
7	2	1220.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	18.2	4.4
8	3	4810.	632.	692.	3632.	632.	692.	3632.	6100.	0.	0.	0.	.60	62.	19.5	C	20.6	4.4
9	2	1370.	0.	0.	2940.	0.	0.	2940.	4000.	0.	0.	0.	.74	62.	23.7	C	23.6	4.4
10	2	660.	284.	0.	3224.	284.	0.	3224.	4375.	25.	0.	0.	.74	62.	26.1	D	23.7	4.2
11	3	790.	576.	764.	3800.	576.	764.	3800.	5609.	491.	0.	0.	.68	62.	20.4	C	30.0	4.4
12	2	1460.	0.	0.	3036.	0.	0.	3036.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
13	3	1400.	500.	0.	3536.	500.	0.	3536.	6000.	100.	0.	0.	.59	62.	19.0	C	13.6	4.4
14	3	2600.	0.	708.	3536.	0.	708.	3536.	6000.	100.	0.	0.	.59	62.	19.0	C	20.6	4.4
15	2	2010.	0.	0.	2828.	0.	0.	2828.	3900.	0.	0.	0.	.73	62.	22.8	C	14.7	4.4
16	3	6120.	584.	512.	3412.	584.	512.	3412.	6100.	0.	0.	0.	.56	62.	18.3	C	18.2	4.4
17	2	1240.	0.	0.	2900.	0.	0.	2900.	4300.	0.	0.	0.	.67	62.	23.4	C	18.2	4.4
18	3	930.	300.	0.	3200.	300.	0.	3200.	6100.	0.	0.	0.	.52	62.	17.2	B	20.6	4.4
19	3	5330.	128.	484.	3328.	128.	484.	3328.	6087.	13.	0.	0.	.55	62.	17.9	B	20.6	4.4
20	2	2830.	0.	0.	2844.	0.	0.	2844.	3800.	0.	0.	0.	.75	61.	23.3	C	21.1	3.8
21	3	1660.	552.	516.	3396.	552.	516.	3396.	5906.	194.	0.	0.	.58	61.	18.6	C	21.1	3.8
22	2	2270.	0.	0.	2880.	0.	0.	2880.	4400.	0.	0.	0.	.65	62.	23.2	C	20.6	4.4
23	2	3040.	204.	332.	3084.	204.	332.	3084.	4100.	0.	0.	0.	.75	62.	25.0	C	20.7	4.2
24	2	2190.	0.	0.	2752.	0.	0.	2752.	4200.	0.	0.	0.	.66	65.	21.2	C	19.2	6.1
25	3	2400.	160.	2912.	2912.	160.	2912.	2912.	6150.	0.	0.	0.	.47	65.	14.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.75		LOWEST LOS = D	AVG = 61.	20.5		18.8	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	159. PASS-HRS	1443. VEH-HRS	1673. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	137. VEH-HRS	159. PASS-HRS	1443. VEH-HRS	1673. PASS-HRS
TOTAL TRAV DISTANCE =	8388. VEH-MI.	9730. PASS-MI.	85439. VEH-MI.	99109. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		59. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	447. GALLONS		4459. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		340. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1888.	0.	1888.	1888.	0.	1888.	3850.	0.	0.	0.	.49	50.	18.9	C	17.4	2.3
2	2	2070.	796.	0.	2684.	796.	0.	2684.	3838.	12.	0.	0.	.70	50.	26.8	D	15.9	2.3
3	3	2300.	1768.	320.	4452.	1768.	320.	4452.	5493.	207.	0.	0.	.81	55.	27.0	D	14.0	2.4
4	3	1020.	0.	0.	4132.	0.	0.	4132.	5700.	0.	0.	0.	.72	62.	22.2	C	19.9	4.8
5	3	710.	352.	0.	4484.	352.	0.	4484.	5700.	0.	0.	0.	.79	62.	24.1	C	16.1	4.4
6	3	3820.	400.	1060.	4884.	400.	1060.	4884.	6103.	47.	0.	0.	.80	61.	26.7	D	17.5	4.2
7	2	1220.	0.	0.	3824.	0.	0.	3824.	4400.	0.	0.	0.	.87	59.	32.4	D	19.3	3.0
8	3	4810.	724.	772.	4548.	724.	772.	4548.	6100.	0.	0.	0.	.75	62.	24.5	C	20.6	4.4
9	2	1370.	0.	0.	3776.	0.	0.	3776.	4000.	0.	0.	0.	.94	55.	34.0	D	26.8	2.1
10	2	660.	268.	0.	4044.	268.	0.	4044.	4380.	20.	0.	0.	.92	57.	35.7	E	26.3	2.4
11	3	790.	524.	768.	4568.	524.	768.	4568.	5640.	460.	0.	0.	.81	62.	24.6	C	30.0	4.4
12	2	1460.	0.	0.	3800.	0.	0.	3800.	4100.	0.	0.	0.	.93	56.	33.6	D	22.7	2.3
13	3	1400.	460.	0.	4260.	460.	0.	4260.	6012.	88.	0.	0.	.71	62.	22.9	C	13.6	4.4
14	3	2600.	0.	824.	4260.	0.	824.	4260.	6012.	88.	0.	0.	.71	62.	22.9	C	20.6	4.4
15	2	2010.	0.	0.	3436.	0.	0.	3436.	3900.	0.	0.	0.	.88	59.	29.3	D	15.6	2.9
16	3	6120.	388.	600.	3824.	388.	600.	3824.	6100.	0.	0.	0.	.63	62.	20.6	C	18.2	4.4
17	2	1240.	0.	0.	3224.	0.	0.	3224.	4300.	0.	0.	0.	.75	62.	26.1	D	18.3	4.2
18	3	930.	232.	0.	3456.	232.	0.	3456.	6100.	0.	0.	0.	.57	62.	18.6	C	20.6	4.4
19	3	5330.	116.	488.	3572.	116.	488.	3572.	6086.	14.	0.	0.	.59	62.	19.2	C	20.6	4.4
20	2	2830.	0.	0.	3084.	0.	0.	3084.	3800.	0.	0.	0.	.81	61.	25.3	C	21.1	3.8
21	3	1660.	480.	460.	3564.	480.	460.	3564.	6001.	99.	0.	0.	.59	61.	19.5	C	21.1	3.8
22	2	2270.	0.	0.	3104.	0.	0.	3104.	4400.	0.	0.	0.	.71	62.	25.1	C	20.6	4.3
23	2	3040.	200.	288.	3304.	200.	288.	3304.	4100.	0.	0.	0.	.81	61.	27.1	D	21.1	3.7
24	2	2190.	0.	0.	3016.	0.	0.	3016.	4200.	0.	0.	0.	.72	65.	23.3	C	19.3	5.9
25	3	2400.	168.	3184.	3184.	168.	3184.	3184.	6150.	0.	0.	0.	.52	65.	16.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.94 LOWEST LOS = E AVG = 61. 24.2 19.0 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	161. VEH-HRS	187. PASS-HRS	1604. VEH-HRS	1860. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	161. VEH-HRS	187. PASS-HRS	1604. VEH-HRS	1860. PASS-HRS
TOTAL TRAV DISTANCE =	9750. VEH-MI.	11310. PASS-MI.	95188. VEH-MI.	110419. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		59. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	514. GALLONS		4972. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		379. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1440.	0.	1440.	1440.	0.	1440.	3850.	0.	0.	0.	.37	50.	14.4	B	17.4	2.3
2	2	2070.	904.	0.	2344.	904.	0.	2344.	3850.	0.	0.	0.	.61	50.	23.4	C	15.9	2.3
3	3	2300.	1800.	344.	4144.	1800.	344.	4144.	5502.	198.	0.	0.	.75	55.	25.1	C	14.0	2.4
4	3	1020.	0.	0.	3800.	0.	0.	3800.	5700.	0.	0.	0.	.67	62.	20.4	C	19.9	4.8
5	3	710.	296.	0.	4096.	296.	0.	4096.	5700.	0.	0.	0.	.72	62.	22.0	C	16.1	4.4
6	3	3820.	380.	1032.	4476.	380.	1032.	4476.	6121.	29.	0.	0.	.73	62.	24.1	C	17.1	4.8
7	2	1220.	0.	0.	3444.	0.	0.	3444.	4400.	0.	0.	0.	.78	61.	28.1	D	18.5	3.9
8	3	4810.	644.	708.	4088.	644.	708.	4088.	6100.	0.	0.	0.	.67	62.	22.0	C	20.6	4.4
9	2	1370.	0.	0.	3380.	0.	0.	3380.	4000.	0.	0.	0.	.85	60.	28.2	D	24.8	3.2
10	2	660.	272.	0.	3652.	272.	0.	3652.	4375.	25.	0.	0.	.83	60.	30.3	D	24.7	3.3
11	3	790.	668.	872.	4320.	668.	872.	4320.	5537.	563.	0.	0.	.78	62.	23.2	C	30.0	4.4
12	2	1460.	0.	0.	3448.	0.	0.	3448.	4100.	0.	0.	0.	.84	60.	28.7	D	21.6	3.2
13	3	1400.	412.	0.	3860.	412.	0.	3860.	5972.	128.	0.	0.	.65	62.	20.8	C	13.6	4.4
14	3	2600.	0.	1196.	3860.	0.	1196.	3860.	5972.	128.	0.	0.	.65	62.	20.8	C	20.6	4.4
15	2	2010.	0.	0.	2664.	0.	0.	2664.	3900.	0.	0.	0.	.68	62.	21.5	C	14.7	4.4
16	3	6120.	460.	692.	3124.	460.	692.	3124.	6100.	0.	0.	0.	.51	62.	16.8	B	18.2	4.4
17	2	1240.	0.	0.	2432.	0.	0.	2432.	4300.	0.	0.	0.	.57	62.	19.6	C	18.2	4.4
18	3	930.	240.	0.	2672.	240.	0.	2672.	6100.	0.	0.	0.	.44	62.	14.4	B	20.6	4.4
19	3	5330.	124.	412.	2796.	124.	412.	2796.	6097.	3.	0.	0.	.46	62.	15.0	B	20.6	4.4
20	2	2830.	0.	0.	2384.	0.	0.	2384.	3800.	0.	0.	0.	.63	61.	19.5	C	21.1	3.8
21	3	1660.	420.	428.	2804.	420.	428.	2804.	6082.	18.	0.	0.	.46	61.	15.3	B	21.1	3.8
22	2	2270.	0.	0.	2376.	0.	0.	2376.	4400.	0.	0.	0.	.54	62.	19.2	C	20.6	4.4
23	2	3040.	148.	280.	2524.	148.	280.	2524.	4100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
24	2	2190.	0.	0.	2244.	0.	0.	2244.	4200.	0.	0.	0.	.53	65.	17.3	B	19.2	6.1
25	3	2400.	108.	2352.	2352.	108.	2352.	2352.	6150.	0.	0.	0.	.38	65.	12.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.85 LOWEST LOS = D AVG = 61. 20.1 18.7 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	1738. VEH-HRS	2016. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	1738. VEH-HRS	2016. PASS-HRS
TOTAL TRAV DISTANCE =	8224. VEH-MI.	9539. PASS-MI.	103412. VEH-MI.	119958. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		59. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	439. GALLONS		5411. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		414. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2208.	0.	2208.	2208.	0.	2208.	3850.	0.	0.	0.	.57	50.	22.1	C	17.4	2.3
2	2	2070.	832.	0.	3040.	832.	0.	3040.	3837.	13.	0.	0.	.79	50.	30.4	D	15.9	2.3
3	3	2300.	1400.	204.	4440.	1400.	204.	4440.	5551.	149.	0.	0.	.80	55.	26.9	D	14.0	2.4
4	3	1020.	0.	0.	4236.	0.	0.	4236.	5700.	0.	0.	0.	.74	62.	22.8	C	19.9	4.8
5	3	710.	288.	0.	4524.	288.	0.	4524.	5700.	0.	0.	0.	.79	62.	24.3	C	16.1	4.4
6	3	3820.	452.	880.	4976.	452.	880.	4976.	6150.	0.	0.	0.	.81	61.	27.3	D	17.6	4.1
7	2	1220.	0.	0.	4096.	0.	0.	4096.	4400.	0.	0.	0.	.93	56.	36.4	E	20.1	2.3
8	3	4810.	648.	668.	4744.	648.	668.	4668.	6100.	0. *	522.	76.	.77	54.	28.8	F	20.7	4.0
9	2	1370.	0.	0.	4076.	0.	0.	4000.	4000.	0.	0.	0.	1.00	52.	38.8	E	28.4	2.0
10	2	660.	184.	0.	4260.	184.	0.	4184.	4387.	13.	0.	0.	.95	55.	38.1	E	27.1	2.0
11	3	790.	636.	708.	4896.	636.	697.	4797.	5541.	559. *	258.	23.	.87	48.	33.5	F	32.3	3.1
12	2	1460.	0.	0.	4188.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	432.	0.	4620.	432.	0.	4532.	5960.	140.	0.	0.	.76	62.	24.4	C	13.6	4.4
14	3	2600.	0.	1492.	4620.	0.	1464.	4532.	5960.	140.	0.	0.	.76	62.	24.4	C	20.6	4.4
15	2	2010.	0.	0.	3128.	0.	0.	3068.	3900.	0.	0.	0.	.79	62.	24.7	C	14.7	4.4
16	3	6120.	356.	680.	3484.	356.	668.	3424.	6100.	0.	0.	0.	.56	62.	18.4	C	18.2	4.4
17	2	1240.	0.	0.	2804.	0.	0.	2756.	4300.	0.	0.	0.	.64	62.	22.2	C	18.2	4.4
18	3	930.	280.	0.	3084.	280.	0.	3036.	6100.	0.	0.	0.	.50	62.	16.3	B	20.6	4.4
19	3	5330.	100.	428.	3184.	100.	422.	3136.	6091.	9.	0.	0.	.51	62.	16.9	B	20.6	4.4
20	2	2830.	0.	0.	2756.	0.	0.	2715.	3800.	0.	0.	0.	.71	61.	22.3	C	21.1	3.8
21	3	1660.	372.	324.	3128.	372.	320.	3087.	6100.	0.	0.	0.	.51	61.	16.9	B	21.1	3.8
22	2	2270.	0.	0.	2804.	0.	0.	2767.	4400.	0.	0.	0.	.63	62.	22.3	C	20.6	4.4
23	2	3040.	104.	252.	2908.	104.	249.	2871.	4100.	0.	0.	0.	.70	62.	23.2	C	20.6	4.4
24	2	2190.	0.	0.	2656.	0.	0.	2622.	4200.	0.	0.	0.	.62	65.	20.2	C	19.2	6.1
25	3	2400.	124.	2780.	2780.	124.	2746.	2746.	6150.	0.	0.	0.	.45	65.	14.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 59. 23.9 19.0 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	160. VEH-HRS	185. PASS-HRS	1898. VEH-HRS	2202. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	160. VEH-HRS	185. PASS-HRS	1898. VEH-HRS	2202. PASS-HRS
TOTAL TRAV DISTANCE =	9391. VEH-MI.	10893. PASS-MI.	112803. VEH-MI.	130851. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	495. GALLONS		5906. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		451. KILOGRAMS	

```
QUEUE CLEAR SECTION  11 T2 =0.241
QUEUE CLEAR SECTION   8 T2 =0.250
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1964.	0.	1964.	1964.	0.	1964.	3850.	0.	0.	0.	.51	50.	19.6	C	17.4	2.3
2	2	2070.	792.	0.	2756.	792.	0.	2756.	3835.	15.	0.	0.	.72	50.	27.6	D	15.9	2.3
3	3	2300.	1452.	336.	4208.	1452.	336.	4208.	5461.	239.	0.	0.	.77	55.	25.5	C	14.0	2.4
4	3	1020.	0.	0.	3872.	0.	0.	3872.	5700.	0.	0.	0.	.68	62.	20.8	C	19.9	4.8
5	3	710.	220.	0.	4092.	220.	0.	4092.	5700.	0.	0.	0.	.72	62.	22.0	C	16.1	4.4
6	3	3820.	316.	776.	4408.	316.	776.	4408.	6150.	0.	0.	0.	.72	62.	23.7	C	17.1	4.8
7	2	1220.	0.	0.	3632.	0.	0.	3632.	4400.	0.	0.	0.	.83	60.	30.0	D	18.8	3.4
8	3	4810.	580.	672.	4212.	580.	672.	4304.	6100.	0.	0.	-92.	.71	52.	27.4	D	20.2	4.4
9	2	1370.	0.	0.	3540.	0.	0.	3632.	4000.	0.	0.	0.	.91	57.	31.6	D	25.9	2.6
10	2	660.	300.	0.	3840.	300.	0.	3932.	4382.	18.	0.	0.	.90	58.	33.9	D	25.7	2.7
11	3	790.	520.	568.	4360.	520.	580.	4484.	5626.	474.	0.	-33.	.80	46.	32.6	D	29.6	4.4
12	2	1460.	0.	0.	3792.	0.	0.	3904.	4100.	0.	0.	0.	.95	55.	35.5	E	23.2	2.0
13	3	1400.	312.	0.	4104.	312.	0.	4216.	5996.	104.	0.	0.	.70	62.	22.7	C	13.6	4.4
14	3	2600.	0.	1348.	4104.	0.	1385.	4216.	5996.	104.	0.	0.	.70	62.	22.7	C	20.6	4.4
15	2	2010.	0.	0.	2756.	0.	0.	2831.	3900.	0.	0.	0.	.73	62.	22.8	C	14.7	4.4
16	3	6120.	372.	652.	3128.	372.	668.	3203.	6100.	0.	0.	0.	.53	62.	17.2	B	18.2	4.4
17	2	1240.	0.	0.	2476.	0.	0.	2536.	4300.	0.	0.	0.	.59	62.	20.4	C	18.2	4.4
18	3	930.	304.	0.	2780.	304.	0.	2840.	6100.	0.	0.	0.	.47	62.	15.3	B	20.6	4.4
19	3	5330.	120.	380.	2900.	120.	388.	2960.	6095.	5.	0.	0.	.49	62.	15.9	B	20.6	4.4
20	2	2830.	0.	0.	2520.	0.	0.	2572.	3800.	0.	0.	0.	.68	61.	21.1	C	21.1	3.8
21	3	1660.	344.	432.	2864.	344.	440.	2916.	6100.	0.	0.	0.	.48	61.	15.9	B	21.1	3.8
22	2	2270.	0.	0.	2432.	0.	0.	2476.	4400.	0.	0.	0.	.56	62.	20.0	C	20.6	4.4
23	2	3040.	124.	228.	2556.	124.	232.	2600.	4100.	0.	0.	0.	.63	62.	21.0	C	20.6	4.4
24	2	2190.	0.	0.	2328.	0.	0.	2368.	4200.	0.	0.	0.	.56	65.	18.2	C	19.2	6.1
25	3	2400.	64.	2392.	2392.	64.	2432.	2432.	6150.	0.	0.	0.	.40	65.	12.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES									MAX(V/C) = 0.95	LOWEST LOS = E	AVG = 59.	21.8		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	146. VEH-HRS	169. PASS-HRS	2044. VEH-HRS	2371. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	146. VEH-HRS	169. PASS-HRS	2044. VEH-HRS	2371. PASS-HRS
TOTAL TRAV DISTANCE =	8615. VEH-MI.	9994. PASS-MI.	121418. VEH-MI.	140845. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	22. VPMPL		22. VPMPL	
TOTAL FUEL =	459. GALLONS		6365. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		487. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1652.	0.	1652.	1652.	0.	1652.	3850.	0.	0.	0.	.43	50.	16.5	B	17.4	2.3
2	2	2070.	768.	0.	2420.	768.	0.	2420.	3845.	5.	0.	0.	.63	50.	24.2	C	15.9	2.3
3	3	2300.	1472.	264.	3892.	1472.	264.	3892.	5529.	171.	0.	0.	.70	55.	23.6	C	14.0	2.4
4	3	1020.	0.	0.	3628.	0.	0.	3628.	5700.	0.	0.	0.	.64	62.	19.5	C	19.9	4.8
5	3	710.	236.	0.	3864.	236.	0.	3864.	5700.	0.	0.	0.	.68	62.	20.8	C	16.1	4.4
6	3	3820.	336.	844.	4200.	336.	844.	4200.	6150.	0.	0.	0.	.68	62.	22.6	C	17.1	4.8
7	2	1220.	0.	0.	3356.	0.	0.	3356.	4400.	0.	0.	0.	.76	62.	27.3	D	18.3	4.1
8	3	4810.	448.	752.	3804.	448.	752.	3804.	6100.	0.	0.	0.	.62	62.	20.5	C	20.6	4.4
9	2	1370.	0.	0.	3052.	0.	0.	3052.	4000.	0.	0.	0.	.76	62.	24.6	C	23.6	4.4
10	2	660.	260.	0.	3312.	260.	0.	3312.	4380.	20.	0.	0.	.76	62.	26.9	D	23.8	4.1
11	3	790.	476.	632.	3788.	476.	632.	3788.	5680.	420.	0.	0.	.67	62.	20.4	C	30.0	4.4
12	2	1460.	0.	0.	3156.	0.	0.	3156.	4100.	0.	0.	0.	.77	61.	25.7	C	20.8	4.1
13	3	1400.	340.	0.	3496.	340.	0.	3496.	6036.	64.	0.	0.	.58	62.	18.8	C	13.6	4.4
14	3	2600.	0.	660.	3496.	0.	660.	3496.	6036.	64.	0.	0.	.58	62.	18.8	C	20.6	4.4
15	2	2010.	0.	0.	2836.	0.	0.	2836.	3900.	0.	0.	0.	.73	62.	22.9	C	14.7	4.4
16	3	6120.	428.	544.	3264.	428.	544.	3264.	6100.	0.	0.	0.	.54	62.	17.5	B	18.2	4.4
17	2	1240.	0.	0.	2720.	0.	0.	2720.	4300.	0.	0.	0.	.63	62.	21.9	C	18.2	4.4
18	3	930.	336.	0.	3056.	336.	0.	3056.	6100.	0.	0.	0.	.50	62.	16.4	B	20.6	4.4
19	3	5330.	120.	496.	3176.	120.	496.	3176.	6089.	11.	0.	0.	.52	62.	17.1	B	20.6	4.4
20	2	2830.	0.	0.	2680.	0.	0.	2680.	3800.	0.	0.	0.	.71	61.	22.0	C	21.1	3.8
21	3	1660.	280.	368.	2960.	280.	368.	2960.	6100.	0.	0.	0.	.49	61.	16.2	B	21.1	3.8
22	2	2270.	0.	0.	2592.	0.	0.	2592.	4400.	0.	0.	0.	.59	62.	20.9	C	20.6	4.4
23	2	3040.	76.	208.	2668.	76.	208.	2668.	4100.	0.	0.	0.	.65	62.	21.5	C	20.6	4.4
24	2	2190.	0.	0.	2460.	0.	0.	2460.	4200.	0.	0.	0.	.59	65.	18.9	C	19.2	6.1
25	3	2400.	104.	2564.	2564.	104.	2564.	2564.	6150.	0.	0.	0.	.42	65.	13.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.77 LOWEST LOS = D AVG = 61. 20.2 18.7 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	2179. VEH-HRS	2527. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	2179. VEH-HRS	2527. PASS-HRS
TOTAL TRAV DISTANCE =	8261. VEH-MI.	9583. PASS-MI.	129679. VEH-MI.	150428. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	441. GALLONS		6806. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		523. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1748.	0.	1748.	1748.	0.	1748.	3850.	0.	0.	0.	.45	50.	17.5	B	17.4	2.3
2	2	2070.	724.	0.	2472.	724.	0.	2472.	3842.	8.	0.	0.	.64	50.	24.7	C	15.9	2.3
3	3	2300.	1576.	308.	4048.	1576.	308.	4048.	5502.	198.	0.	0.	.74	55.	24.5	C	14.0	2.4
4	3	1020.	0.	0.	3740.	0.	0.	3740.	5700.	0.	0.	0.	.66	62.	20.1	C	19.9	4.8
5	3	710.	200.	0.	3940.	200.	0.	3940.	5700.	0.	0.	0.	.69	62.	21.2	C	16.1	4.4
6	3	3820.	456.	952.	4396.	456.	952.	4396.	6132.	18.	0.	0.	.72	62.	23.6	C	17.1	4.8
7	2	1220.	0.	0.	3444.	0.	0.	3444.	4400.	0.	0.	0.	.78	61.	28.1	D	18.5	3.9
8	3	4810.	580.	704.	4024.	580.	704.	4024.	6100.	0.	0.	0.	.66	62.	21.6	C	20.6	4.4
9	2	1370.	0.	0.	3320.	0.	0.	3320.	4000.	0.	0.	0.	.83	60.	27.5	D	24.6	3.4
10	2	660.	200.	0.	3520.	200.	0.	3520.	4382.	18.	0.	0.	.80	61.	28.9	D	24.2	3.7
11	3	790.	496.	772.	4016.	496.	772.	4016.	5678.	422.	0.	0.	.71	62.	21.6	C	30.0	4.4
12	2	1460.	0.	0.	3244.	0.	0.	3244.	4100.	0.	0.	0.	.79	61.	26.5	D	21.0	3.9
13	3	1400.	428.	0.	3672.	428.	0.	3672.	6032.	68.	0.	0.	.61	62.	19.7	C	13.6	4.4
14	3	2600.	0.	580.	3672.	0.	580.	3672.	6032.	68.	0.	0.	.61	62.	19.7	C	20.6	4.4
15	2	2010.	0.	0.	3092.	0.	0.	3092.	3900.	0.	0.	0.	.79	61.	25.3	C	14.9	3.9
16	3	6120.	396.	588.	3488.	396.	588.	3488.	6100.	0.	0.	0.	.57	62.	18.8	C	18.2	4.4
17	2	1240.	0.	0.	2900.	0.	0.	2900.	4300.	0.	0.	0.	.67	62.	23.4	C	18.2	4.4
18	3	930.	240.	0.	3140.	240.	0.	3140.	6100.	0.	0.	0.	.51	62.	16.9	B	20.6	4.4
19	3	5330.	144.	520.	3284.	144.	520.	3284.	6089.	11.	0.	0.	.54	62.	17.7	B	20.6	4.4
20	2	2830.	0.	0.	2764.	0.	0.	2764.	3800.	0.	0.	0.	.73	61.	22.7	C	21.1	3.8
21	3	1660.	336.	476.	3100.	336.	476.	3100.	6100.	0.	0.	0.	.51	61.	16.9	B	21.1	3.8
22	2	2270.	0.	0.	2624.	0.	0.	2624.	4400.	0.	0.	0.	.60	62.	21.2	C	20.6	4.4
23	2	3040.	100.	260.	2724.	100.	260.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	20.6	4.4
24	2	2190.	0.	0.	2464.	0.	0.	2464.	4200.	0.	0.	0.	.59	65.	19.0	C	19.2	6.1
25	3	2400.	80.	2544.	2544.	80.	2544.	2544.	6150.	0.	0.	0.	.41	65.	13.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.83		LOWEST LOS = D	AVG = 61.	21.1		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 16 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	141. VEH-HRS	164. PASS-HRS	2320. VEH-HRS	2691. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	141. VEH-HRS	164. PASS-HRS	2320. VEH-HRS	2691. PASS-HRS
TOTAL TRAV DISTANCE =	8618. VEH-MI.	9997. PASS-MI.	138298. VEH-MI.	160425. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		22. VPMPL	
TOTAL FUEL =	460. GALLONS		7266. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		559. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2032.	0.	2032.	2032.	0.	2032.	3850.	0.	0.	0.	.53	50.	20.3	C	17.4	2.3
2	2	2070.	780.	0.	2812.	780.	0.	2812.	3836.	14.	0.	0.	.73	50.	28.1	D	15.9	2.3
3	3	2300.	1284.	248.	4096.	1284.	248.	4096.	5521.	179.	0.	0.	.74	55.	24.8	C	14.0	2.4
4	3	1020.	0.	0.	3848.	0.	0.	3848.	5700.	0.	0.	0.	.68	62.	20.7	C	19.9	4.8
5	3	710.	212.	0.	4060.	212.	0.	4060.	5700.	0.	0.	0.	.71	62.	21.8	C	16.1	4.4
6	3	3820.	360.	920.	4420.	360.	920.	4420.	6150.	0.	0.	0.	.72	62.	23.8	C	17.1	4.8
7	2	1220.	0.	0.	3500.	0.	0.	3500.	4400.	0.	0.	0.	.80	61.	28.6	D	18.6	3.8
8	3	4810.	524.	848.	4024.	524.	848.	4024.	6100.	0.	0.	0.	.66	62.	21.6	C	20.6	4.4
9	2	1370.	0.	0.	3176.	0.	0.	3176.	4000.	0.	0.	0.	.79	61.	26.0	C	24.1	3.8
10	2	660.	168.	0.	3344.	168.	0.	3344.	4387.	13.	0.	0.	.76	62.	27.2	D	23.8	4.1
11	3	790.	584.	684.	3928.	584.	684.	3928.	5601.	499.	0.	0.	.70	62.	21.1	C	30.0	4.4
12	2	1460.	0.	0.	3244.	0.	0.	3244.	4100.	0.	0.	0.	.79	61.	26.5	D	21.0	3.9
13	3	1400.	408.	0.	3652.	408.	0.	3652.	6036.	64.	0.	0.	.61	62.	19.6	C	13.6	4.4
14	3	2600.	0.	564.	3652.	0.	564.	3652.	6036.	64.	0.	0.	.61	62.	19.6	C	20.6	4.4
15	2	2010.	0.	0.	3088.	0.	0.	3088.	3900.	0.	0.	0.	.79	61.	25.2	C	14.9	3.9
16	3	6120.	340.	712.	3428.	340.	712.	3428.	6100.	0.	0.	0.	.56	62.	18.4	C	18.2	4.4
17	2	1240.	0.	0.	2716.	0.	0.	2716.	4300.	0.	0.	0.	.63	62.	21.9	C	18.2	4.4
18	3	930.	268.	0.	2984.	268.	0.	2984.	6100.	0.	0.	0.	.49	62.	16.0	B	20.6	4.4
19	3	5330.	140.	508.	3124.	140.	508.	3124.	6091.	9.	0.	0.	.51	62.	16.8	B	20.6	4.4
20	2	2830.	0.	0.	2616.	0.	0.	2616.	3800.	0.	0.	0.	.69	61.	21.4	C	21.1	3.8
21	3	1660.	256.	416.	2872.	256.	416.	2872.	6100.	0.	0.	0.	.47	61.	15.7	B	21.1	3.8
22	2	2270.	0.	0.	2456.	0.	0.	2456.	4400.	0.	0.	0.	.56	62.	19.8	C	20.6	4.4
23	2	3040.	92.	264.	2548.	92.	264.	2548.	4100.	0.	0.	0.	.62	62.	20.5	C	20.6	4.4
24	2	2190.	0.	0.	2284.	0.	0.	2284.	4200.	0.	0.	0.	.54	65.	17.6	B	19.2	6.1
25	3	2400.	72.	2356.	2356.	72.	2356.	2356.	6150.	0.	0.	0.	.38	65.	12.1	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 61.	20.8		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 17 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	2458. VEH-HRS	2852. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	2458. VEH-HRS	2852. PASS-HRS
TOTAL TRAV DISTANCE =	8462. VEH-MI.	9815. PASS-MI.	146759. VEH-MI.	170241. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		22. VPMPL	
TOTAL FUEL =	453. GALLONS		7718. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		595. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2064.	0.	2064.	2064.	0.	2064.	3850.	0.	0.	0.	.54	50.	20.6	C	17.4	2.3
2	2	2070.	800.	0.	2864.	800.	0.	2864.	3836.	14.	0.	0.	.75	50.	28.6	D	15.9	2.3
3	3	2300.	1372.	248.	4236.	1372.	248.	4236.	5524.	176.	0.	0.	.77	55.	25.7	C	14.0	2.4
4	3	1020.	0.	0.	3988.	0.	0.	3988.	5700.	0.	0.	0.	.70	62.	21.4	C	19.9	4.8
5	3	710.	276.	0.	4264.	276.	0.	4264.	5700.	0.	0.	0.	.75	62.	22.9	C	16.1	4.4
6	3	3820.	436.	948.	4700.	436.	948.	4700.	6133.	17.	0.	0.	.77	62.	25.5	C	17.3	4.5
7	2	1220.	0.	0.	3752.	0.	0.	3752.	4400.	0.	0.	0.	.85	60.	31.4	D	19.1	3.1
8	3	4810.	496.	788.	4248.	496.	788.	4248.	6100.	0.	0.	0.	.70	62.	22.8	C	20.6	4.4
9	2	1370.	0.	0.	3460.	0.	0.	3460.	4000.	0.	0.	0.	.87	59.	29.2	D	25.1	3.0
10	2	660.	232.	0.	3692.	232.	0.	3692.	4384.	16.	0.	0.	.84	60.	30.8	D	24.8	3.2
11	3	790.	612.	676.	4304.	612.	676.	4304.	5564.	536.	0.	0.	.77	62.	23.1	C	30.0	4.4
12	2	1460.	0.	0.	3628.	0.	0.	3628.	4100.	0.	0.	0.	.88	58.	31.0	D	22.1	2.8
13	3	1400.	432.	0.	4060.	432.	0.	4060.	6024.	76.	0.	0.	.67	62.	21.8	C	13.6	4.4
14	3	2600.	0.	720.	4060.	0.	720.	4060.	6024.	76.	0.	0.	.67	62.	21.8	C	20.6	4.4
15	2	2010.	0.	0.	3340.	0.	0.	3340.	3900.	0.	0.	0.	.86	60.	28.0	D	15.4	3.1
16	3	6120.	384.	632.	3724.	384.	632.	3724.	6100.	0.	0.	0.	.61	62.	20.0	C	18.2	4.4
17	2	1240.	0.	0.	3092.	0.	0.	3092.	4300.	0.	0.	0.	.72	62.	25.0	C	18.2	4.3
18	3	930.	312.	0.	3404.	312.	0.	3404.	6100.	0.	0.	0.	.56	62.	18.3	C	20.6	4.4
19	3	5330.	120.	468.	3524.	120.	468.	3524.	6085.	15.	0.	0.	.58	62.	18.9	C	20.6	4.4
20	2	2830.	0.	0.	3056.	0.	0.	3056.	3800.	0.	0.	0.	.80	61.	25.0	C	21.1	3.8
21	3	1660.	336.	408.	3392.	336.	408.	3392.	6100.	0.	0.	0.	.56	61.	18.5	C	21.1	3.8
22	2	2270.	0.	0.	2984.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	20.6	4.4
23	2	3040.	72.	288.	3056.	72.	288.	3056.	4100.	0.	0.	0.	.75	62.	24.6	C	20.6	4.4
24	2	2190.	0.	0.	2768.	0.	0.	2768.	4200.	0.	0.	0.	.66	65.	21.3	C	19.2	6.1
25	3	2400.	92.	2860.	2860.	92.	2860.	2860.	6150.	0.	0.	0.	.47	65.	14.7	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.88		LOWEST LOS = D	AVG = 61.	23.1		18.8	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	154. VEH-HRS	178. PASS-HRS	2612. VEH-HRS	3030. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	178. PASS-HRS	2612. VEH-HRS	3030. PASS-HRS
TOTAL TRAV DISTANCE =	9348. VEH-MI.	10844. PASS-MI.	156107. VEH-MI.	181084. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	496. GALLONS		8215. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		634. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2032.	0.	2032.	2032.	0.	2032.	3850.	0.	0.	0.	.53	50.	20.3	C	17.4	2.3
2	2	2070.	768.	0.	2800.	768.	0.	2800.	3837.	13.	0.	0.	.73	50.	28.0	D	15.9	2.3
3	3	2300.	1340.	244.	4140.	1340.	244.	4140.	5530.	170.	0.	0.	.75	55.	25.1	C	14.0	2.4
4	3	1020.	0.	0.	3896.	0.	0.	3896.	5700.	0.	0.	0.	.68	62.	20.9	C	19.9	4.8
5	3	710.	268.	0.	4164.	268.	0.	4164.	5700.	0.	0.	0.	.73	62.	22.4	C	16.1	4.4
6	3	3820.	324.	940.	4488.	324.	940.	4488.	6150.	0.	0.	0.	.73	62.	24.1	C	17.1	4.8
7	2	1220.	0.	0.	3548.	0.	0.	3548.	4400.	0.	0.	0.	.81	61.	29.1	D	18.7	3.7
8	3	4810.	524.	756.	4072.	524.	756.	4072.	6100.	0.	0.	0.	.67	62.	21.9	C	20.6	4.4
9	2	1370.	0.	0.	3316.	0.	0.	3316.	4000.	0.	0.	0.	.83	60.	27.5	D	24.6	3.4
10	2	660.	256.	0.	3572.	256.	0.	3572.	4384.	16.	0.	0.	.81	61.	29.4	D	24.4	3.6
11	3	790.	648.	580.	4220.	648.	580.	4220.	5588.	512.	0.	0.	.76	62.	22.7	C	30.0	4.4
12	2	1460.	0.	0.	3640.	0.	0.	3640.	4100.	0.	0.	0.	.89	58.	31.2	D	22.1	2.8
13	3	1400.	412.	0.	4052.	412.	0.	4052.	6016.	84.	0.	0.	.67	62.	21.8	C	13.6	4.4
14	3	2600.	0.	812.	4052.	0.	812.	4052.	6016.	84.	0.	0.	.67	62.	21.8	C	20.6	4.4
15	2	2010.	0.	0.	3240.	0.	0.	3240.	3900.	0.	0.	0.	.83	60.	26.9	D	15.2	3.4
16	3	6120.	332.	636.	3572.	332.	636.	3572.	6100.	0.	0.	0.	.59	62.	19.2	C	18.2	4.4
17	2	1240.	0.	0.	2936.	0.	0.	2936.	4300.	0.	0.	0.	.68	62.	23.7	C	18.2	4.4
18	3	930.	308.	0.	3244.	308.	0.	3244.	6100.	0.	0.	0.	.53	62.	17.4	B	20.6	4.4
19	3	5330.	96.	552.	3340.	96.	552.	3340.	6085.	15.	0.	0.	.55	62.	18.0	B	20.6	4.4
20	2	2830.	0.	0.	2788.	0.	0.	2788.	3800.	0.	0.	0.	.73	61.	22.9	C	21.1	3.8
21	3	1660.	344.	460.	3132.	344.	460.	3132.	6100.	0.	0.	0.	.51	61.	17.1	B	21.1	3.8
22	2	2270.	0.	0.	2672.	0.	0.	2672.	4400.	0.	0.	0.	.61	62.	21.5	C	20.6	4.4
23	2	3040.	80.	272.	2752.	80.	272.	2752.	4100.	0.	0.	0.	.67	62.	22.2	C	20.6	4.4
24	2	2190.	0.	0.	2480.	0.	0.	2480.	4200.	0.	0.	0.	.59	65.	19.1	C	19.2	6.1
25	3	2400.	116.	2596.	2596.	116.	2596.	2596.	6150.	0.	0.	0.	.42	65.	13.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.89 LOWEST LOS = D AVG = 61. 21.9 18.8 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	146. VEH-HRS	170. PASS-HRS	2758. VEH-HRS	3200. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	146. VEH-HRS	170. PASS-HRS	2758. VEH-HRS	3200. PASS-HRS
TOTAL TRAV DISTANCE =	8906. VEH-MI.	10331. PASS-MI.	165013. VEH-MI.	191415. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		22. VPMPL	
TOTAL FUEL =	475. GALLONS		8689. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		671. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2356.	0.	2356.	2356.	0.	2356.	3850.	0.	0.	0.	.61	50.	23.6	C	17.4	2.3
2	2	2070.	916.	0.	3272.	916.	0.	3272.	3824.	26.	0.	0.	.86	50.	32.7	D	15.9	2.3
3	3	2300.	1580.	384.	4852.	1580.	384.	4852.	5410.	290.	0.	0.	.90	55.	29.4	D	14.0	2.4
4	3	1020.	0.	0.	4468.	0.	0.	4468.	5700.	0.	0.	0.	.78	62.	24.0	C	19.9	4.8
5	3	710.	240.	0.	4708.	240.	0.	4708.	5700.	0.	0.	0.	.83	60.	26.0	C	16.7	3.4
6	3	3820.	436.	956.	5144.	436.	956.	5144.	6114.	36.	0.	0.	.84	60.	28.6	D	17.9	3.7
7	2	1220.	0.	0.	4188.	0.	0.	4188.	4400.	0.	0.	0.	.95	55.	38.1	E	20.4	2.0
8	3	4810.	596.	860.	4784.	596.	860.	4784.	6100.	0.	0.	0.	.78	61.	26.0	D	20.9	3.9
9	2	1370.	0.	0.	3924.	0.	0.	3924.	4000.	0.	0.	0.	.98	53.	37.0	E	27.8	2.0
10	2	660.	308.	0.	4232.	308.	0.	4232.	4378.	22.	0.	0.	.97	54.	39.2	E	27.4	2.0
11	3	790.	680.	756.	4912.	680.	756.	4856.	5498.	602. *	702.	56.	.88	37.	43.5	F	33.2	3.0
12	2	1460.	0.	0.	4156.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	444.	0.	4600.	444.	0.	4544.	5988.	112.	0.	0.	.76	62.	24.4	C	13.6	4.4
14	3	2600.	0.	1160.	4600.	0.	1146.	4544.	5988.	112.	0.	0.	.76	62.	24.4	C	20.6	4.4
15	2	2010.	0.	0.	3440.	0.	0.	3398.	3900.	0.	0.	0.	.87	59.	28.8	D	15.5	3.0
16	3	6120.	492.	760.	3932.	492.	752.	3890.	6100.	0.	0.	0.	.64	62.	20.9	C	18.2	4.4
17	2	1240.	0.	0.	3172.	0.	0.	3138.	4300.	0.	0.	0.	.73	62.	25.4	C	18.2	4.3
18	3	930.	452.	0.	3624.	452.	0.	3590.	6100.	0.	0.	0.	.59	62.	19.3	C	20.6	4.4
19	3	5330.	80.	520.	3704.	80.	515.	3670.	6073.	27.	0.	0.	.60	62.	19.7	C	20.6	4.4
20	2	2830.	0.	0.	3184.	0.	0.	3155.	3800.	0.	0.	0.	.83	60.	26.4	D	21.7	3.1
21	3	1660.	276.	412.	3460.	276.	409.	3431.	6100.	0.	0.	0.	.56	61.	18.7	C	21.1	3.8
22	2	2270.	0.	0.	3048.	0.	0.	3022.	4400.	0.	0.	0.	.69	62.	24.4	C	20.6	4.4
23	2	3040.	108.	264.	3156.	108.	262.	3130.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
24	2	2190.	0.	0.	2892.	0.	0.	2869.	4200.	0.	0.	0.	.68	65.	22.1	C	19.2	6.1
25	3	2400.	60.	2952.	2952.	60.	2929.	2929.	6150.	0.	0.	0.	.48	65.	15.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 59.	25.6		19.1	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	170. VEH-HRS	198. PASS-HRS	2929. VEH-HRS	3397. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	170. VEH-HRS	198. PASS-HRS	2929. VEH-HRS	3397. PASS-HRS
TOTAL TRAV DISTANCE =	10072. VEH-MI.	11683. PASS-MI.	175085. VEH-MI.	203099. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	26. VPMPL		22. VPMPL	
TOTAL FUEL =	527. GALLONS		9216. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		710. KILOGRAMS	

QUEUE CLEAR SECTION 11 T2 =0.244

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2292.	0.	2292.	2292.	0.	2292.	3850.	0.	0.	0.	.60	50.	22.9	C	17.4	2.3
2	2	2070.	544.	0.	2836.	544.	0.	2836.	3839.	11.	0.	0.	.74	50.	28.4	D	15.9	2.3
3	3	2300.	1460.	240.	4296.	1460.	240.	4296.	5527.	173.	0.	0.	.78	55.	26.0	D	14.0	2.4
4	3	1020.	0.	0.	4056.	0.	0.	4056.	5700.	0.	0.	0.	.71	62.	21.8	C	19.9	4.8
5	3	710.	244.	0.	4300.	244.	0.	4300.	5700.	0.	0.	0.	.75	62.	23.1	C	16.1	4.4
6	3	3820.	376.	872.	4676.	376.	872.	4676.	6150.	0.	0.	0.	.76	62.	25.3	C	17.3	4.6
7	2	1220.	0.	0.	3804.	0.	0.	3804.	4400.	0.	0.	0.	.86	59.	32.1	D	19.2	3.0
8	3	4810.	520.	688.	4324.	520.	688.	4324.	6100.	0.	0.	0.	.71	62.	23.2	C	20.6	4.4
9	2	1370.	0.	0.	3636.	0.	0.	3636.	4000.	0.	0.	0.	.91	57.	31.7	D	25.9	2.6
10	2	660.	312.	0.	3948.	312.	0.	3948.	4376.	24.	0.	0.	.90	58.	34.2	D	25.8	2.6
11	3	790.	692.	776.	4640.	692.	776.	4708.	5496.	604.	0.	-68.	.86	36.	44.2	E	31.6	3.4
12	2	1460.	0.	0.	3864.	0.	0.	3932.	4100.	0.	0.	0.	.96	55.	36.0	E	23.2	2.0
13	3	1400.	472.	0.	4336.	472.	0.	4404.	6012.	88.	0.	0.	.73	62.	23.7	C	13.6	4.4
14	3	2600.	0.	816.	4336.	0.	829.	4404.	6012.	88.	0.	0.	.73	62.	23.7	C	20.6	4.4
15	2	2010.	0.	0.	3520.	0.	0.	3575.	3900.	0.	0.	0.	.92	57.	31.3	D	16.0	2.5
16	3	6120.	472.	720.	3992.	472.	730.	4047.	6100.	0.	0.	0.	.66	62.	21.8	C	18.2	4.4
17	2	1240.	0.	0.	3272.	0.	0.	3317.	4300.	0.	0.	0.	.77	61.	27.0	D	18.4	4.0
18	3	930.	472.	0.	3744.	472.	0.	3789.	6100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
19	3	5330.	108.	560.	3852.	108.	567.	3897.	6068.	32.	0.	0.	.64	62.	21.0	C	20.6	4.4
20	2	2830.	0.	0.	3292.	0.	0.	3330.	3800.	0.	0.	0.	.88	58.	28.6	D	22.1	2.8
21	3	1660.	344.	480.	3636.	344.	485.	3674.	6070.	30.	0.	0.	.61	61.	20.1	C	21.1	3.8
22	2	2270.	0.	0.	3156.	0.	0.	3189.	4400.	0.	0.	0.	.72	62.	25.8	C	20.6	4.3
23	2	3040.	100.	360.	3256.	100.	364.	3289.	4100.	0.	0.	0.	.80	61.	27.0	D	21.1	3.7
24	2	2190.	0.	0.	2896.	0.	0.	2926.	4200.	0.	0.	0.	.70	65.	22.6	C	19.3	6.0
25	3	2400.	76.	2972.	2972.	76.	3002.	3002.	6150.	0.	0.	0.	.49	65.	15.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.96		LOWEST LOS = E	AVG = 60.	24.9		19.0	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	166. VEH-HRS	192. PASS-HRS	3094. VEH-HRS	3589. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	166. VEH-HRS	192. PASS-HRS	3094. VEH-HRS	3589. PASS-HRS
TOTAL TRAV DISTANCE =	9884. VEH-MI.	11466. PASS-MI.	184969. VEH-MI.	214564. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	25. VPMPL		22. VPMPL	
TOTAL FUEL =	520. GALLONS		9735. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		749. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1968.	0.	1968.	1968.	0.	1968.	3850.	0.	0.	0.	.51	50.	19.7	C	17.4	2.3
2	2	2070.	696.	0.	2664.	696.	0.	2664.	3838.	12.	0.	0.	.69	50.	26.6	D	15.9	2.3
3	3	2300.	1416.	300.	4080.	1416.	300.	4080.	5489.	211.	0.	0.	.74	55.	24.7	C	14.0	2.4
4	3	1020.	0.	0.	3780.	0.	0.	3780.	5700.	0.	0.	0.	.66	62.	20.3	C	19.9	4.8
5	3	710.	292.	0.	4072.	292.	0.	4072.	5700.	0.	0.	0.	.71	62.	21.9	C	16.1	4.4
6	3	3820.	432.	956.	4504.	432.	956.	4504.	6133.	17.	0.	0.	.73	62.	24.2	C	17.1	4.8
7	2	1220.	0.	0.	3548.	0.	0.	3548.	4400.	0.	0.	0.	.81	61.	29.1	D	18.7	3.7
8	3	4810.	672.	800.	4220.	672.	800.	4220.	6100.	0.	0.	0.	.69	62.	22.7	C	20.6	4.4
9	2	1370.	0.	0.	3420.	0.	0.	3420.	4000.	0.	0.	0.	.86	60.	28.7	D	25.0	3.1
10	2	660.	444.	0.	3864.	444.	0.	3864.	4365.	35.	0.	0.	.89	58.	33.0	D	25.4	2.8
11	3	790.	696.	768.	4560.	696.	768.	4560.	5479.	621.	0.	0.	.83	62.	24.5	C	30.0	4.4
12	2	1460.	0.	0.	3792.	0.	0.	3792.	4100.	0.	0.	0.	.92	57.	33.5	D	22.6	2.4
13	3	1400.	340.	0.	4132.	340.	0.	4132.	6056.	44.	0.	0.	.68	62.	22.2	C	13.6	4.4
14	3	2600.	0.	536.	4132.	0.	536.	4132.	6056.	44.	0.	0.	.68	62.	22.2	C	20.6	4.4
15	2	2010.	0.	0.	3596.	0.	0.	3596.	3900.	0.	0.	0.	.92	57.	31.7	D	16.0	2.4
16	3	6120.	444.	704.	4040.	444.	704.	4040.	6100.	0.	0.	0.	.66	62.	21.7	C	18.2	4.4
17	2	1240.	0.	0.	3336.	0.	0.	3336.	4300.	0.	0.	0.	.78	61.	27.2	D	18.4	4.0
18	3	930.	324.	0.	3660.	324.	0.	3660.	6100.	0.	0.	0.	.60	62.	19.7	C	20.6	4.4
19	3	5330.	160.	672.	3820.	160.	672.	3820.	6076.	24.	0.	0.	.63	62.	20.5	C	20.6	4.4
20	2	2830.	0.	0.	3148.	0.	0.	3148.	3800.	0.	0.	0.	.83	60.	26.4	D	21.7	3.1
21	3	1660.	316.	404.	3464.	316.	404.	3464.	6100.	0.	0.	0.	.57	61.	18.9	C	21.1	3.8
22	2	2270.	0.	0.	3060.	0.	0.	3060.	4400.	0.	0.	0.	.70	62.	24.7	C	20.6	4.4
23	2	3040.	88.	420.	3148.	88.	420.	3148.	4100.	0.	0.	0.	.77	62.	25.6	C	20.8	4.1
24	2	2190.	0.	0.	2728.	0.	0.	2728.	4200.	0.	0.	0.	.65	65.	21.0	C	19.2	6.1
25	3	2400.	108.	2836.	2836.	108.	2836.	2836.	6150.	0.	0.	0.	.46	65.	14.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.92		LOWEST LOS = D	AVG = 61.	23.6		18.9	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	157. VEH-HRS	182. PASS-HRS	3251. VEH-HRS	3772. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	157. VEH-HRS	182. PASS-HRS	3251. VEH-HRS	3772. PASS-HRS
TOTAL TRAV DISTANCE =	9525. VEH-MI.	11049. PASS-MI.	194494. VEH-MI.	225614. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	503. GALLONS		10238. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		788. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2136.	0.	2136.	2136.	0.	2136.	3850.	0.	0.	0.	.55	50.	21.4	C	17.4	2.3
2	2	2070.	712.	0.	2848.	712.	0.	2848.	3834.	16.	0.	0.	.74	50.	28.5	D	15.9	2.3
3	3	2300.	1568.	320.	4416.	1568.	320.	4416.	5474.	226.	0.	0.	.81	55.	26.8	D	14.0	2.4
4	3	1020.	0.	0.	4096.	0.	0.	4096.	5700.	0.	0.	0.	.72	62.	22.0	C	19.9	4.8
5	3	710.	208.	0.	4304.	208.	0.	4304.	5700.	0.	0.	0.	.76	62.	23.1	C	16.1	4.4
6	3	3820.	388.	968.	4692.	388.	968.	4692.	6135.	15.	0.	0.	.76	62.	25.4	C	17.3	4.5
7	2	1220.	0.	0.	3724.	0.	0.	3724.	4400.	0.	0.	0.	.85	60.	31.1	D	19.1	3.2
8	3	4810.	672.	840.	4396.	672.	840.	4396.	6100.	0.	0.	0.	.72	62.	23.6	C	20.6	4.4
9	2	1370.	0.	0.	3556.	0.	0.	3556.	4000.	0.	0.	0.	.89	58.	30.5	D	25.5	2.8
10	2	660.	292.	0.	3848.	292.	0.	3848.	4378.	22.	0.	0.	.88	59.	32.8	D	25.3	2.9
11	3	790.	736.	744.	4584.	736.	744.	4584.	5458.	642.	0.	0.	.84	62.	24.6	C	30.0	4.4
12	2	1460.	0.	0.	3840.	0.	0.	3840.	4100.	0.	0.	0.	.94	56.	34.3	D	22.8	2.2
13	3	1400.	456.	0.	4296.	456.	0.	4296.	6032.	68.	0.	0.	.71	62.	23.1	C	13.6	4.4
14	3	2600.	0.	636.	4296.	0.	636.	4296.	6032.	68.	0.	0.	.71	62.	23.1	C	20.6	4.4
15	2	2010.	0.	0.	3660.	0.	0.	3660.	3900.	0.	0.	0.	.94	56.	32.8	D	16.2	2.2
16	3	6120.	476.	984.	4136.	476.	984.	4136.	6100.	0.	0.	0.	.68	62.	22.2	C	18.2	4.4
17	2	1240.	0.	0.	3152.	0.	0.	3152.	4300.	0.	0.	0.	.73	62.	25.5	C	18.2	4.3
18	3	930.	320.	0.	3472.	320.	0.	3472.	6100.	0.	0.	0.	.57	62.	18.7	C	20.6	4.4
19	3	5330.	136.	544.	3608.	136.	544.	3608.	6082.	18.	0.	0.	.59	62.	19.4	C	20.6	4.4
20	2	2830.	0.	0.	3064.	0.	0.	3064.	3800.	0.	0.	0.	.81	61.	25.1	C	21.1	3.8
21	3	1660.	376.	496.	3440.	376.	496.	3440.	6052.	48.	0.	0.	.57	61.	18.8	C	21.1	3.8
22	2	2270.	0.	0.	2944.	0.	0.	2944.	4400.	0.	0.	0.	.67	62.	23.7	C	20.6	4.4
23	2	3040.	96.	408.	3040.	96.	408.	3040.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
24	2	2190.	0.	0.	2632.	0.	0.	2632.	4200.	0.	0.	0.	.63	65.	20.2	C	19.2	6.1
25	3	2400.	76.	2708.	2708.	76.	2708.	2708.	6150.	0.	0.	0.	.44	65.	13.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES										MAX(V/C) = 0.94	LOWEST LOS = D		AVG = 61.	23.9	18.9	4.1

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 23 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	159. VEH-HRS	184. PASS-HRS	3410. VEH-HRS	3956. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	159. VEH-HRS	184. PASS-HRS	3410. VEH-HRS	3956. PASS-HRS
TOTAL TRAV DISTANCE =	9630. VEH-MI.	11171. PASS-MI.	204125. VEH-MI.	236785. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	510. GALLONS		10748. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		827. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2204.	0.	2204.	2204.	0.	2204.	3850.	0.	0.	0.	.57	50.	22.0	C	17.4	2.3
2	2	2070.	752.	0.	2956.	752.	0.	2956.	3830.	20.	0.	0.	.77	50.	29.6	D	15.9	2.3
3	3	2300.	1696.	364.	4652.	1696.	364.	4652.	5446.	254.	0.	0.	.85	55.	28.2	D	14.0	2.4
4	3	1020.	0.	0.	4288.	0.	0.	4288.	5700.	0.	0.	0.	.75	62.	23.1	C	19.9	4.8
5	3	710.	244.	0.	4532.	244.	0.	4532.	5700.	0.	0.	0.	.80	62.	24.4	C	16.1	4.4
6	3	3820.	432.	1028.	4964.	432.	1028.	4964.	6098.	52.	0.	0.	.81	61.	27.3	D	17.6	4.1
7	2	1220.	0.	0.	3936.	0.	0.	3936.	4400.	0.	0.	0.	.89	58.	33.9	D	19.6	2.7
8	3	4810.	616.	908.	4552.	616.	908.	4552.	6100.	0.	0.	0.	.75	62.	24.5	C	20.6	4.4
9	2	1370.	0.	0.	3644.	0.	0.	3644.	4000.	0.	0.	0.	.91	57.	31.8	D	26.0	2.5
10	2	660.	276.	0.	3920.	276.	0.	3920.	4376.	24.	0.	0.	.90	58.	33.8	D	25.6	2.7
11	3	790.	772.	856.	4692.	772.	856.	4692.	5440.	660.	0.	0.	.86	59.	26.4	D	32.1	3.0
12	2	1460.	0.	0.	3836.	0.	0.	3836.	4100.	0.	0.	0.	.94	56.	34.3	D	22.8	2.2
13	3	1400.	480.	0.	4316.	480.	0.	4316.	6012.	88.	0.	0.	.72	62.	23.2	C	13.6	4.4
14	3	2600.	0.	772.	4316.	0.	772.	4316.	6012.	88.	0.	0.	.72	62.	23.2	C	20.6	4.4
15	2	2010.	0.	0.	3544.	0.	0.	3544.	3900.	0.	0.	0.	.91	57.	30.9	D	15.9	2.6
16	3	6120.	328.	720.	3872.	328.	720.	3872.	6100.	0.	0.	0.	.63	62.	20.8	C	18.2	4.4
17	2	1240.	0.	0.	3152.	0.	0.	3152.	4300.	0.	0.	0.	.73	62.	25.5	C	18.2	4.3
18	3	930.	276.	0.	3428.	276.	0.	3428.	6100.	0.	0.	0.	.56	62.	18.4	C	20.6	4.4
19	3	5330.	144.	580.	3572.	144.	580.	3572.	6083.	17.	0.	0.	.59	62.	19.2	C	20.6	4.4
20	2	2830.	0.	0.	2992.	0.	0.	2992.	3800.	0.	0.	0.	.79	61.	24.5	C	21.1	3.8
21	3	1660.	344.	456.	3336.	344.	456.	3336.	6100.	0.	0.	0.	.55	61.	18.2	C	21.1	3.8
22	2	2270.	0.	0.	2880.	0.	0.	2880.	4400.	0.	0.	0.	.65	62.	23.2	C	20.6	4.4
23	2	3040.	96.	364.	2976.	96.	364.	2976.	4100.	0.	0.	0.	.73	62.	24.0	C	20.6	4.4
24	2	2190.	0.	0.	2612.	0.	0.	2612.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	124.	2736.	2736.	124.	2736.	2736.	6150.	0.	0.	0.	.44	65.	14.0	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.94 LOWEST LOS = D AVG = 60. 24.0 18.9 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	160. VEH-HRS	186. PASS-HRS	3570. VEH-HRS	4142. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	160. VEH-HRS	186. PASS-HRS	3570. VEH-HRS	4142. PASS-HRS
TOTAL TRAV DISTANCE =	9666. VEH-MI.	11213. PASS-MI.	213791. VEH-MI.	247998. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	511. GALLONS		11259. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		866. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	74.	86.	0.	0.	74.	86.	4569.	5300.	61.5	242.	1.	15.	4.	14:00
2	92.	107.	0.	0.	92.	107.	5655.	6559.	61.4	300.	1.	19.	5.	14:15
3	135.	156.	0.	0.	135.	156.	8229.	9546.	61.0	433.	1.	26.	7.	14:30
4	164.	190.	0.	0.	164.	190.	9761.	11322.	59.6	506.	1.	27.	8.	14:45
5	133.	154.	0.	0.	133.	154.	8116.	9415.	61.1	427.	1.	26.	7.	15:00
6	155.	180.	0.	0.	155.	180.	9364.	10863.	60.4	488.	1.	28.	8.	15:15
7	175.	203.	0.	0.	175.	203.	10259.	11900.	58.5	527.	1.	28.	9.	15:30
8	188.	218.	0.	0.	188.	218.	10388.	12050.	55.3	535.	1.	29.	9.	15:45
9	189.	220.	0.	0.	189.	220.	10710.	12423.	56.6	554.	1.	28.	9.	16:00
10	137.	159.	0.	0.	137.	159.	8388.	9730.	61.3	447.	1.	28.	7.	16:15
11	161.	187.	0.	0.	161.	187.	9750.	11310.	60.5	514.	1.	29.	9.	16:30
12	135.	156.	0.	0.	135.	156.	8224.	9539.	61.1	439.	1.	26.	7.	16:45
13	160.	185.	0.	0.	160.	185.	9391.	10893.	58.8	495.	1.	28.	8.	17:00
14	146.	169.	0.	0.	146.	169.	8615.	9994.	59.1	459.	1.	27.	8.	17:15
15	135.	157.	0.	0.	135.	157.	8261.	9583.	61.2	441.	1.	27.	7.	17:30
16	141.	164.	0.	0.	141.	164.	8618.	9997.	61.1	460.	1.	28.	8.	17:45
17	139.	161.	0.	0.	139.	161.	8462.	9815.	61.0	453.	1.	27.	8.	18:00
18	154.	178.	0.	0.	154.	178.	9348.	10844.	60.8	496.	1.	29.	8.	18:15
19	146.	170.	0.	0.	146.	170.	8906.	10331.	60.9	475.	1.	28.	8.	18:30
20	170.	198.	0.	0.	170.	198.	10072.	11683.	59.1	527.	1.	28.	9.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	166.	192.	0.	0.	166.	192.	9884.	11466.	59.6	520.	1.	29.	9.	19:00
22	157.	182.	0.	0.	157.	182.	9525.	11049.	60.7	503.	1.	29.	8.	19:15
23	159.	184.	0.	0.	159.	184.	9630.	11171.	60.6	510.	1.	29.	8.	19:30
24	160.	186.	0.	0.	160.	186.	9666.	11213.	60.4	511.	1.	29.	8.	19:45
TOTAL	3570.	4142.	0.	0.	3570.	4142.	213791.	247998.	59.9	11259.	31.	649.	186.	

Opening Year (2025) Final Build
(Aux Lanes and BOS)
Southbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2412.	0.	2412.	2412.	0.	2412.	3850.	0.	0.	0.	.63	50.	24.1	C	17.4	2.3
2	2	2070.	620.	0.	3032.	620.	0.	3032.	3833.	17.	0.	0.	.79	50.	30.3	D	15.9	2.3
3	3	2300.	1688.	328.	4720.	1688.	328.	4720.	5869.	231.	0.	0.	.80	55.	28.6	D	14.0	2.4
4	3	1020.	0.	0.	4392.	0.	0.	4392.	6100.	0.	0.	0.	.72	62.	23.6	C	19.9	4.8
5	3	710.	256.	0.	4648.	256.	0.	4648.	6100.	0.	0.	0.	.76	62.	25.2	C	16.3	4.1
6	3	3820.	448.	1060.	5096.	448.	1060.	5096.	6079.	71.	0.	0.	.84	60.	28.3	D	17.9	3.7
7	2	1220.	0.	0.	4036.	0.	0.	4036.	4400.	0.	0.	0.	.92	57.	35.4	E	19.9	2.5
8	3	4810.	588.	792.	4624.	588.	792.	4624.	6100.	0.	0.	0.	.76	62.	25.0	C	20.8	4.1
9	2	1370.	0.	0.	3832.	0.	0.	3832.	4000.	0.	0.	0.	.96	55.	35.1	E	27.2	2.0
10	2	660.	380.	0.	4212.	380.	0.	4212.	4369.	31.	0.	0.	.96	54.	38.8	E	27.4	2.0
11	3	790.	836.	916.	5048.	836.	916.	5016.	5379.	721.	* 573.	32.	.93	43.	38.9	F	35.6	2.4
12	2	1460.	0.	0.	4132.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	572.	0.	4704.	572.	0.	4672.	6016.	84.	0.	0.	.78	61.	25.4	C	13.7	4.0
14	3	2600.	0.	692.	4704.	0.	687.	4587.	6016.	84.	* 585.	85.	.76	48.	32.0	F	20.4	4.1
15	2	2010.	0.	0.	4012.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	508.	752.	4520.	508.	733.	4408.	6100.	0.	0.	0.	.72	62.	23.7	C	18.2	4.4
17	2	1240.	0.	0.	3768.	0.	0.	3675.	4300.	0.	0.	0.	.85	60.	30.8	D	19.2	3.1
18	3	930.	588.	0.	4356.	588.	0.	4263.	6098.	2.	0.	0.	.70	62.	22.9	C	20.6	4.4
19	3	5330.	132.	648.	4488.	132.	634.	4395.	6050.	50.	0.	0.	.73	62.	23.6	C	20.6	4.4
20	2	2830.	0.	0.	3840.	0.	0.	3760.	3800.	0.	0.	0.	.99	52.	36.1	E	23.8	2.0
21	3	1660.	468.	572.	4308.	468.	561.	4228.	5896.	204.	0.	0.	.72	61.	23.1	C	21.1	3.8
22	2	2270.	0.	0.	3736.	0.	0.	3667.	4400.	0.	0.	0.	.83	60.	30.4	D	21.5	3.3
23	2	3040.	160.	384.	3896.	160.	377.	3827.	4100.	0.	0.	0.	.93	56.	34.1	D	22.8	2.3
24	2	2190.	0.	0.	3512.	0.	0.	3450.	4200.	0.	0.	0.	.82	63.	27.6	D	20.3	4.7
25	3	2400.	132.	3644.	3644.	132.	3582.	3582.	6150.	0.	0.	0.	.58	65.	18.4	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 57.	28.1		19.3	3.5

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 1 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	202. VEH-HRS	238. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	202. VEH-HRS	238. PASS-HRS
TOTAL TRAV DISTANCE =	11549. VEH-MI.	13628. PASS-MI.	11549. VEH-MI.	13628. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		57. MPH.	
AVERAGE DENSITY =	28. VPMPL		28. VPMPL	
TOTAL FUEL =	598. GALLONS		598. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		41. KILOGRAMS	

```
QUEUE COLLISION IN SECTION  11 T2 =0.008
QUEUE COLLISION IN SECTION  10 T2 =0.026
QUEUE COLLISION IN SECTION   9 T2 =0.063
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3148.	0.	3148.	3148.	0.	3148.	3850.	0.	0.	0.	.82	50.	31.5	D	17.4	2.3
2	2	2070.	568.	0.	3716.	568.	0.	3716.	3831.	19.	0.	0.	.97	50.	37.2	E	15.9	2.3
3	3	2300.	1512.	372.	5228.	1512.	372.	5228.	5815.	285.	0.	0.	.90	55.	31.7	D	14.0	2.4
4	3	1020.	0.	0.	4856.	0.	0.	4856.	6100.	0.	0.	0.	.80	61.	26.5	D	20.3	4.3
5	3	710.	192.	0.	5048.	192.	0.	5048.	6100.	0.	0.	0.	.83	60.	27.9	D	16.8	3.4
6	3	3820.	364.	1248.	5412.	364.	1248.	5412.	6052.	98.	0.	0.	.89	58.	31.1	D	18.4	3.2
7	2	1220.	0.	0.	4164.	0.	0.	4164.	4400.	0.	0.	0.	.95	55.	37.6	E	20.3	2.1
8	3	4810.	640.	804.	4804.	640.	804.	4455.	6100.	0.	* 1656.	349.	.73	45.	32.9	F	20.3	4.1
9	2	1370.	0.	0.	4000.	0.	0.	3651.	4000.	0.	** 1370.	349.	.91	31.	58.8	F	27.9	2.9
10	2	660.	384.	0.	4384.	384.	0.	4035.	4369.	31.	** 660.	334.	.92	30.	66.2	F	28.3	2.9
11	3	790.	988.	936.	5372.	988.	923.	5023.	5299.	801.	** 790.	276.	.95	32.	51.6	F	36.9	2.7
12	2	1460.	0.	0.	4436.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	528.	0.	4964.	528.	0.	4628.	6028.	72.	0.	0.	.77	62.	25.1	C	13.7	4.1
14	3	2600.	0.	684.	4964.	0.	638.	4538.	6028.	72.	* 1190.	90.	.75	32.	46.9	F	19.3	4.4
15	2	2010.	0.	0.	4280.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	528.	776.	4808.	528.	714.	4428.	6100.	0.	0.	0.	.73	62.	23.8	C	18.2	4.4
17	2	1240.	0.	0.	4032.	0.	0.	3714.	4300.	0.	0.	0.	.86	59.	31.3	D	19.2	3.0
18	3	930.	556.	0.	4588.	556.	0.	4270.	6096.	4.	0.	0.	.70	62.	23.0	C	20.6	4.4
19	3	5330.	156.	696.	4744.	156.	649.	4426.	6049.	51.	0.	0.	.73	62.	23.8	C	20.6	4.4
20	2	2830.	0.	0.	4048.	0.	0.	3776.	3800.	0.	0.	0.	.99	52.	36.4	E	23.9	2.0
21	3	1660.	516.	652.	4564.	516.	613.	4292.	5811.	289.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3912.	0.	0.	3679.	4400.	0.	0.	0.	.84	60.	30.6	D	21.5	3.3
23	2	3040.	112.	460.	4024.	112.	433.	3791.	4100.	0.	0.	0.	.92	57.	33.5	D	22.6	2.4
24	2	2190.	0.	0.	3564.	0.	0.	3358.	4200.	0.	0.	0.	.80	63.	26.6	D	20.0	5.0
25	3	2400.	104.	3668.	3668.	104.	3462.	3462.	6150.	0.	0.	0.	.56	65.	17.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 52.	31.7		19.2	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	230. VEH-HRS	271. PASS-HRS	432. VEH-HRS	509. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	230. VEH-HRS	271. PASS-HRS	432. VEH-HRS	509. PASS-HRS
TOTAL TRAV DISTANCE =	11995. VEH-MI.	14154. PASS-MI.	23544. VEH-MI.	27782. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		55. MPH.	
AVERAGE DENSITY =	32. VPMPL		30. VPMPL	
TOTAL FUEL =	625. GALLONS		1223. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		82. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2528.	0.	2528.	2528.	0.	2528.	3850.	0.	0.	0.	.66	50.	25.3	C	17.4	2.3
2	2	2070.	540.	0.	3068.	540.	0.	3068.	3833.	17.	0.	0.	.80	50.	30.7	D	15.9	2.3
3	3	2300.	1788.	400.	4856.	1788.	400.	4856.	5828.	272.	0.	0.	.83	55.	29.4	D	14.0	2.4
4	3	1020.	0.	0.	4456.	0.	0.	4456.	6100.	0.	0.	0.	.73	62.	24.0	C	19.9	4.8
5	3	710.	196.	0.	4652.	196.	0.	4652.	6100.	0.	0.	0.	.76	62.	25.2	C	16.3	4.1
6	3	3820.	360.	1052.	5012.	360.	1052.	5012.	6107.	43.	0.	0.	.82	61.	27.6	D	17.7	4.0
7	2	1220.	0.	0.	3960.	0.	0.	3960.	4400.	0.	0.	0.	.90	58.	34.2	D	19.6	2.7
8	3	4810.	584.	784.	4544.	584.	784.	4320.	6100.	0.	* 2972.	224.	.71	24.	58.9	F	18.1	4.8
9	2	1370.	0.	0.	3760.	0.	0.	3536.	4000.	0.	** 1370.	224.	.88	26.	69.0	F	26.7	3.4
10	2	660.	480.	0.	4240.	480.	0.	4016.	4362.	38.	** 660.	224.	.92	29.	68.6	F	28.1	3.0
11	3	790.	1020.	936.	5260.	1020.	936.	5036.	5298.	802.	** 790.	224.	.95	33.	51.3	F	36.9	2.7
12	2	1460.	0.	0.	4324.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	612.	0.	4936.	612.	0.	4712.	6000.	100.	0.	0.	.79	61.	25.6	C	13.7	3.9
14	3	2600.	0.	800.	4936.	0.	764.	4664.	6000.	100.	* 1540.	48.	.78	27.	57.3	F	19.0	4.3
15	2	2010.	0.	0.	4136.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	616.	804.	4752.	616.	764.	4516.	6100.	0.	0.	0.	.74	62.	24.3	C	18.2	4.4
17	2	1240.	0.	0.	3948.	0.	0.	3752.	4300.	0.	0.	0.	.87	59.	31.8	D	19.3	2.9
18	3	930.	584.	0.	4532.	584.	0.	4336.	6096.	4.	0.	0.	.71	62.	23.3	C	20.6	4.4
19	3	5330.	192.	680.	4724.	192.	652.	4452.	6046.	54.	* 483.	76.	.74	55.	27.0	F	20.4	4.4
20	2	2830.	0.	0.	4044.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	496.	660.	4540.	496.	624.	4296.	5824.	276.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3880.	0.	0.	3672.	4400.	0.	0.	0.	.83	60.	30.5	D	21.5	3.3
23	2	3040.	128.	420.	4008.	128.	398.	3800.	4100.	0.	0.	0.	.93	56.	33.6	D	22.7	2.3
24	2	2190.	0.	0.	3588.	0.	0.	3402.	4200.	0.	0.	0.	.81	63.	27.1	D	20.2	4.9
25	3	2400.	96.	3684.	3684.	96.	3498.	3498.	6150.	0.	0.	0.	.57	65.	17.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 47.		33.6	18.9	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	247. VEH-HRS	292. PASS-HRS	679. VEH-HRS	801. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	247. VEH-HRS	292. PASS-HRS	679. VEH-HRS	801. PASS-HRS
TOTAL TRAV DISTANCE =	11588. VEH-MI.	13674. PASS-MI.	35133. VEH-MI.	41456. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		52. MPH.	
AVERAGE DENSITY =	34. VPMPL		31. VPMPL	
TOTAL FUEL =	612. GALLONS		1835. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		125. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3148.	0.	3148.	3148.	0.	3148.	3850.	0.	0.	0.	.82	50.	31.5	D	17.4	2.3
2	2	2070.	472.	0.	3620.	472.	0.	3620.	3835.	15.	0.	0.	.94	50.	36.2	E	15.9	2.3
3	3	2300.	1644.	356.	5264.	1644.	356.	5264.	5839.	261.	0.	0.	.90	54.	32.5	D	14.1	2.4
4	3	1020.	0.	0.	4908.	0.	0.	4908.	6100.	0.	0.	0.	.80	61.	26.9	D	20.4	4.2
5	3	710.	188.	0.	5096.	188.	0.	5096.	6100.	0.	0.	0.	.84	60.	28.2	D	16.8	3.3
6	3	3820.	308.	1120.	5404.	308.	1120.	5404.	6101.	49.	0.	0.	.89	58.	30.8	D	18.3	3.3
7	2	1220.	0.	0.	4284.	0.	0.	3979.	4400.	0.	* 527.	305.	.90	53.	37.7	F	20.7	2.0
8	3	4810.	564.	892.	4848.	564.	892.	4543.	6100.	0.	** 4810.	305.	.74	19.	80.6	F	17.4	4.8
9	2	1370.	0.	0.	3956.	0.	0.	3651.	4000.	0.	** 1370.	305.	.91	28.	64.2	F	27.8	3.1
10	2	660.	356.	0.	4312.	356.	0.	4007.	4371.	29.	** 660.	305.	.92	29.	69.5	F	27.9	3.0
11	3	790.	1056.	980.	5368.	1056.	963.	5063.	5277.	823.	** 790.	214.	.96	34.	49.8	F	36.7	2.6
12	2	1460.	0.	0.	4388.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	644.	0.	5032.	644.	0.	4575.	6008.	92.	* 115.	169.	.76	61.	25.2	F	13.8	3.9
14	3	2600.	0.	716.	5032.	0.	675.	4575.	6008.	92.	** 2600.	169.	.76	20.	76.9	F	17.8	4.6
15	2	2010.	0.	0.	4316.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	732.	736.	5048.	732.	675.	4632.	6100.	0.	0.	0.	.76	62.	25.1	C	18.3	4.1
17	2	1240.	0.	0.	4312.	0.	0.	3957.	4300.	0.	0.	0.	.92	57.	34.8	D	19.9	2.4
18	3	930.	520.	0.	4832.	520.	0.	4477.	6095.	5.	0.	0.	.73	62.	24.1	C	20.6	4.4
19	3	5330.	152.	660.	4984.	152.	613.	4413.	6051.	49.	* 1838.	215.	.73	38.	38.8	F	19.7	4.3
20	2	2830.	0.	0.	4324.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	532.	728.	4856.	532.	649.	4332.	5761.	339.	0.	0.	.75	61.	23.7	C	21.1	3.8
22	2	2270.	0.	0.	4128.	0.	0.	3683.	4400.	0.	0.	0.	.84	60.	30.6	D	21.5	3.3
23	2	3040.	416.	436.	4544.	416.	393.	4099.	4100.	0.	0.	0.	.99	52.	39.7	E	23.9	2.0
24	2	2190.	0.	0.	4108.	0.	0.	3705.	4200.	0.	0.	0.	.88	60.	30.8	D	21.6	3.2
25	3	2400.	132.	4240.	4240.	132.	3837.	3837.	6150.	0.	0.	0.	.62	65.	19.7	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 42.	39.0		18.9	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	291. VEH-HRS	344. PASS-HRS	970. VEH-HRS	1145. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	291. VEH-HRS	344. PASS-HRS	970. VEH-HRS	1145. PASS-HRS
TOTAL TRAV DISTANCE =	12218. VEH-MI.	14417. PASS-MI.	47351. VEH-MI.	55874. PASS-MI.
AVERAGE SYSTEM SPEED =	42. MPH.		49. MPH.	
AVERAGE DENSITY =	39. VPMPL		33. VPMPL	
TOTAL FUEL =	645. GALLONS		2481. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		167. KILOGRAMS	

QUEUE COLLISION IN SECTION 12 T2 =0.205

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2528.	0.	2528.	2528.	0.	2528.	3850.	0.	0.	0.	.66	50.	25.3	C	17.4	2.3
2	2	2070.	448.	0.	2976.	448.	0.	2976.	3830.	20.	0.	0.	.78	50.	29.8	D	15.9	2.3
3	3	2300.	1464.	500.	4440.	1464.	500.	4440.	5742.	358.	0.	0.	.77	55.	26.9	D	14.0	2.4
4	3	1020.	0.	0.	3940.	0.	0.	3940.	6100.	0.	0.	0.	.65	62.	21.2	C	19.9	4.8
5	3	710.	100.	0.	4040.	100.	0.	4040.	6100.	0.	0.	0.	.66	62.	21.7	C	16.1	4.4
6	3	3820.	316.	1108.	4356.	316.	1108.	4356.	6115.	35.	0.	0.	.71	62.	23.4	C	17.1	4.8
7	2	1220.	0.	0.	3248.	0.	0.	3248.	4400.	0.	0.	0.	.74	58.	27.9	D	18.1	4.2
8	3	4810.	524.	828.	3772.	524.	828.	3827.	6100.	0.	* 3438.	-55.	.63	14.	88.1	F	15.4	5.5
9	2	1370.	0.	0.	2944.	0.	0.	2999.	4000.	0.	** 1370.	-55.	.75	20.	74.1	F	23.9	4.2
10	2	660.	444.	0.	3388.	444.	0.	3443.	4364.	36.	** 660.	-55.	.79	23.	76.0	F	25.2	3.8
11	3	790.	1160.	816.	4548.	1160.	816.	4603.	5448.	652.	** 790.	-55.	.84	26.	58.2	F	34.1	3.3
12	2	1460.	0.	0.	3732.	0.	0.	3787.	4100.	0.	** 1460.	313.	.92	43.	43.6	F	23.3	2.2
13	3	1400.	608.	0.	4340.	608.	0.	4395.	6036.	64.	** 1400.	313.	.73	20.	72.8	F	12.2	4.8
14	3	2600.	0.	456.	4340.	0.	495.	4395.	6036.	64.	** 2600.	313.	.73	15.	95.0	F	16.5	5.2
15	2	2010.	0.	0.	3884.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	684.	580.	4568.	684.	582.	4584.	6100.	0.	0.	0.	.75	62.	24.6	C	18.2	4.4
17	2	1240.	0.	0.	3988.	0.	0.	4002.	4300.	0.	0.	0.	.93	56.	35.6	E	20.1	2.3
18	3	930.	416.	0.	4404.	416.	0.	4418.	6097.	3.	0.	0.	.72	62.	23.8	C	20.6	4.4
19	3	5330.	120.	580.	4524.	120.	582.	4382.	6065.	35.	* 2792.	156.	.72	27.	54.6	F	18.5	4.7
20	2	2830.	0.	0.	3944.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	516.	688.	4460.	516.	666.	4316.	5795.	305.	0.	0.	.74	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	3772.	0.	0.	3650.	4400.	0.	0.	0.	.83	60.	30.2	D	21.4	3.4
23	2	3040.	340.	420.	4112.	340.	408.	3990.	4100.	0.	0.	0.	.97	54.	37.2	E	23.5	2.0
24	2	2190.	0.	0.	3692.	0.	0.	3583.	4200.	0.	0.	0.	.85	61.	29.2	D	20.9	4.0
25	3	2400.	160.	3852.	3852.	160.	3743.	3743.	6150.	0.	0.	0.	.61	65.	19.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 36.	41.2		18.3	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	317. VEH-HRS	374. PASS-HRS	1287. VEH-HRS	1518. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	317. VEH-HRS	374. PASS-HRS	1287. VEH-HRS	1518. PASS-HRS
TOTAL TRAV DISTANCE =	11246. VEH-MI.	13271. PASS-MI.	58597. VEH-MI.	69145. PASS-MI.
AVERAGE SYSTEM SPEED =	36. MPH.		46. MPH.	
AVERAGE DENSITY =	41. VPMPL		35. VPMPL	
TOTAL FUEL =	616. GALLONS		3097. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		211. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2644.	0.	2644.	2644.	0.	2644.	3850.	0.	0.	0.	.69	50.	26.4	D	17.4	2.3
2	2	2070.	404.	0.	3048.	404.	0.	3048.	3834.	16.	0.	0.	.80	50.	30.5	D	15.9	2.3
3	3	2300.	1428.	436.	4476.	1428.	436.	4476.	5786.	314.	0.	0.	.77	55.	27.1	D	14.0	2.4
4	3	1020.	0.	0.	4040.	0.	0.	4040.	6100.	0.	0.	0.	.66	62.	21.7	C	19.9	4.8
5	3	710.	96.	0.	4136.	96.	0.	4136.	6100.	0.	0.	0.	.68	62.	22.2	C	16.1	4.4
6	3	3820.	252.	1116.	4388.	252.	1116.	4388.	6131.	19.	0.	0.	.72	62.	23.6	C	17.1	4.8
7	2	1220.	0.	0.	3272.	0.	0.	3272.	4400.	0.	0.	0.	.74	62.	26.5	D	18.3	4.2
8	3	4810.	540.	788.	3812.	540.	788.	3712.	6100.	0.	* 3899.	100.	.61	13.	92.6	F	14.7	5.7
9	2	1370.	0.	0.	3024.	0.	0.	2924.	4000.	0.	** 1370.	100.	.73	16.	94.0	F	20.0	5.1
10	2	660.	420.	0.	3444.	420.	0.	3344.	4367.	33.	** 660.	100.	.77	17.	96.4	F	21.5	4.8
11	3	790.	1100.	768.	4544.	1100.	768.	4444.	5481.	619.	** 790.	100.	.81	20.	73.9	F	29.0	4.2
12	2	1460.	0.	0.	3776.	0.	0.	3676.	4100.	0.	** 1460.	100.	.90	27.	68.6	F	20.6	3.2
13	3	1400.	624.	0.	4400.	624.	0.	4300.	6044.	56.	** 1400.	100.	.71	15.	97.9	F	11.4	5.3
14	3	2600.	0.	400.	4400.	0.	400.	4300.	6044.	56.	** 2600.	100.	.71	15.	97.9	F	16.0	5.3
15	2	2010.	0.	0.	4000.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	600.	540.	4600.	600.	528.	4500.	6100.	0.	0.	0.	.74	62.	24.2	C	18.2	4.4
17	2	1240.	0.	0.	4060.	0.	0.	3972.	4300.	0.	0.	0.	.92	57.	35.1	E	20.0	2.4
18	3	930.	420.	0.	4480.	420.	0.	4392.	6097.	3.	0.	0.	.72	62.	23.6	C	20.6	4.4
19	3	5330.	128.	528.	4608.	128.	518.	4318.	6067.	33.	* 3993.	202.	.71	21.	70.1	F	17.5	5.0
20	2	2830.	0.	0.	4080.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	528.	600.	4608.	528.	563.	4328.	5824.	276.	0.	0.	.74	61.	23.7	C	21.1	3.8
22	2	2270.	0.	0.	4008.	0.	0.	3765.	4400.	0.	0.	0.	.86	60.	31.6	D	21.7	3.1
23	2	3040.	180.	408.	4188.	180.	384.	3945.	4100.	0.	0.	0.	.96	54.	36.3	E	23.3	2.0
24	2	2190.	0.	0.	3780.	0.	0.	3560.	4200.	0.	0.	0.	.85	62.	28.9	D	20.8	4.1
25	3	2400.	148.	3928.	3928.	148.	3708.	3708.	6150.	0.	0.	0.	.60	65.	19.0	C	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 32. 45.2 17.9 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	342. VEH-HRS	403. PASS-HRS	1628. VEH-HRS	1922. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	342. VEH-HRS	403. PASS-HRS	1628. VEH-HRS	1922. PASS-HRS
TOTAL TRAV DISTANCE =	11094. VEH-MI.	13091. PASS-MI.	69691. VEH-MI.	82235. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		43. MPH.	
AVERAGE DENSITY =	45. VPMPL		36. VPMPL	
TOTAL FUEL =	621. GALLONS		3718. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		255. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2424.	0.	2424.	2424.	0.	2424.	3850.	0.	0.	0.	.63	50.	24.2	C	17.4	2.3
2	2	2070.	444.	0.	2868.	444.	0.	2868.	3833.	17.	0.	0.	.75	50.	28.7	D	15.9	2.3
3	3	2300.	1660.	500.	4528.	1660.	500.	4528.	5765.	335.	0.	0.	.79	55.	27.4	D	14.0	2.4
4	3	1020.	0.	0.	4028.	0.	0.	4028.	6100.	0.	0.	0.	.66	62.	21.7	C	19.9	4.8
5	3	710.	80.	0.	4108.	80.	0.	4108.	6100.	0.	0.	0.	.67	62.	22.1	C	16.1	4.4
6	3	3820.	268.	1172.	4376.	268.	1172.	4376.	6111.	39.	0.	0.	.72	62.	23.5	C	17.1	4.8
7	2	1220.	0.	0.	3204.	0.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	18.2	4.3
8	3	4810.	564.	832.	3768.	564.	832.	3720.	6100.	0.	* 4121.	48.	.61	12.	99.6	F	14.4	5.8
9	2	1370.	0.	0.	2936.	0.	0.	2888.	4000.	0.	** 1370.	48.	.72	15.	95.4	F	19.7	5.2
10	2	660.	424.	0.	3360.	424.	0.	3312.	4365.	35.	** 660.	48.	.76	17.	97.6	F	21.2	4.8
11	3	790.	1140.	808.	4500.	1140.	808.	4452.	5455.	645.	** 790.	48.	.82	20.	72.8	F	29.2	4.1
12	2	1460.	0.	0.	3692.	0.	0.	3644.	4100.	0.	** 1460.	48.	.89	26.	69.9	F	20.4	3.3
13	3	1400.	652.	0.	4344.	652.	0.	4296.	6040.	60.	** 1400.	48.	.71	15.	97.8	F	11.4	5.3
14	3	2600.	0.	396.	4344.	0.	396.	4296.	6040.	60.	** 2600.	48.	.71	15.	97.8	F	16.0	5.3
15	2	2010.	0.	0.	3948.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	576.	544.	4524.	576.	538.	4476.	6100.	0.	0.	0.	.73	62.	24.1	C	18.2	4.4
17	2	1240.	0.	0.	3980.	0.	0.	3938.	4300.	0.	0.	0.	.92	57.	34.5	D	19.8	2.5
18	3	930.	476.	0.	4456.	476.	0.	4414.	6097.	3.	0.	0.	.72	62.	23.7	C	20.6	4.4
19	3	5330.	152.	576.	4608.	152.	571.	4371.	6059.	41.	* 5186.	195.	.72	17.	86.0	F	16.8	5.1
20	2	2830.	0.	0.	4032.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	508.	648.	4540.	508.	615.	4308.	5817.	283.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3892.	0.	0.	3693.	4400.	0.	0.	0.	.84	60.	30.7	D	21.6	3.2
23	2	3040.	152.	404.	4044.	152.	384.	3845.	4100.	0.	0.	0.	.94	56.	34.4	D	22.9	2.2
24	2	2190.	0.	0.	3640.	0.	0.	3461.	4200.	0.	0.	0.	.82	62.	27.7	D	20.4	4.6
25	3	2400.	124.	3764.	3764.	124.	3585.	3585.	6150.	0.	0.	0.	.58	65.	18.4	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 31.	46.7		17.7	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	355. VEH-HRS	419. PASS-HRS	1984. VEH-HRS	2341. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	355. VEH-HRS	419. PASS-HRS	1984. VEH-HRS	2341. PASS-HRS
TOTAL TRAV DISTANCE =	10946. VEH-MI.	12917. PASS-MI.	80637. VEH-MI.	95152. PASS-MI.
AVERAGE SYSTEM SPEED =	31. MPH.		41. MPH.	
AVERAGE DENSITY =	47. VPMPL		38. VPMPL	
TOTAL FUEL =	619. GALLONS		4337. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		300. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3460.	0.	3460.	3460.	0.	3460.	3850.	0.	0.	0.	.90	50.	34.6	D	17.4	2.3
2	2	2070.	372.	0.	3832.	372.	0.	3831.	3831.	19.	0.	0.	1.00	49.	39.2	E	15.7	2.3
3	3	2300.	1264.	560.	5096.	1264.	560.	5095.	5659.	441.	0.	0.	.90	55.	30.9	D	14.0	2.4
4	3	1020.	0.	0.	4536.	0.	0.	4535.	6100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
5	3	710.	56.	0.	4592.	56.	0.	4591.	6100.	0.	0.	0.	.75	62.	24.7	C	16.1	4.4
6	3	3820.	208.	1268.	4800.	208.	1268.	4799.	6104.	46.	0.	0.	.79	61.	26.1	D	17.4	4.4
7	2	1220.	0.	0.	3532.	0.	0.	3336.	4400.	0.	* 499.	196.	.76	54.	31.1	F	18.3	3.8
8	3	4810.	484.	908.	4016.	484.	908.	3820.	6100.	0.	** 4810.	196.	.63	12.	107.9	F	14.1	5.9
9	2	1370.	0.	0.	3108.	0.	0.	2912.	4000.	0.	** 1370.	196.	.73	15.	94.4	F	19.9	5.2
10	2	660.	416.	0.	3524.	416.	0.	3328.	4365.	35.	** 660.	196.	.76	17.	97.0	F	21.4	4.8
11	3	790.	1212.	860.	4736.	1212.	860.	4540.	5419.	681.	** 790.	196.	.84	22.	69.1	F	30.4	3.9
12	2	1460.	0.	0.	3876.	0.	0.	3680.	4100.	0.	** 1460.	196.	.90	27.	68.4	F	20.6	3.2
13	3	1400.	708.	0.	4584.	708.	0.	4388.	6024.	76.	** 1400.	196.	.73	15.	94.8	F	11.6	5.2
14	3	2600.	0.	488.	4584.	0.	488.	4388.	6024.	76.	** 2600.	196.	.73	15.	94.8	F	16.5	5.2
15	2	2010.	0.	0.	4096.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	656.	652.	4752.	656.	625.	4556.	6100.	0.	0.	0.	.75	62.	24.5	C	18.2	4.4
17	2	1240.	0.	0.	4100.	0.	0.	3931.	4300.	0.	0.	0.	.91	57.	34.4	D	19.8	2.5
18	3	930.	516.	0.	4616.	516.	0.	4299.	6096.	4.	* 731.	148.	.71	30.	48.2	F	18.7	4.7
19	3	5330.	192.	716.	4808.	192.	691.	4491.	6048.	52.	** 5330.	148.	.74	16.	92.7	F	16.7	5.0
20	2	2830.	0.	0.	4092.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	496.	704.	4588.	496.	659.	4296.	5806.	294.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3884.	0.	0.	3637.	4400.	0.	0.	0.	.83	60.	30.1	D	21.4	3.4
23	2	3040.	144.	436.	4028.	144.	409.	3781.	4100.	0.	0.	0.	.92	57.	33.3	D	22.6	2.4
24	2	2190.	0.	0.	3592.	0.	0.	3372.	4200.	0.	0.	0.	.80	63.	26.7	D	20.1	5.0
25	3	2400.	144.	3736.	3736.	144.	3516.	3516.	6150.	0.	0.	0.	.57	65.	18.0	C	18.6	6.6
TOTAL		60550. =	11.5 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 31.	49.9	17.6	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	378. VEH-HRS	446. PASS-HRS	2362. VEH-HRS	2787. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	378. VEH-HRS	446. PASS-HRS	2362. VEH-HRS	2787. PASS-HRS
TOTAL TRAV DISTANCE =	11608. VEH-MI.	13697. PASS-MI.	92245. VEH-MI.	108849. PASS-MI.
AVERAGE SYSTEM SPEED =	31. MPH.		39. MPH.	
AVERAGE DENSITY =	50. VPMPL		39. VPMPL	
TOTAL FUEL =	659. GALLONS		4996. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		346. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2916.	0.	2916.	2916.	0.	2916.	3850.	0.	0.	0.	.76	50.	29.2	D	17.4	2.3
2	2	2070.	376.	0.	3292.	376.	0.	3292.	3831.	19.	0.	0.	.86	50.	32.9	D	15.9	2.3
3	3	2300.	1240.	536.	4532.	1240.	536.	4532.	5709.	391.	0.	0.	.79	55.	27.5	D	14.0	2.4
4	3	1020.	0.	0.	3996.	0.	0.	3996.	6100.	0.	0.	0.	.66	62.	21.5	C	19.9	4.8
5	3	710.	100.	0.	4096.	100.	0.	4096.	6100.	0.	0.	0.	.67	62.	22.0	C	16.1	4.4
6	3	3820.	204.	1192.	4300.	204.	1192.	4300.	6128.	22.	0.	0.	.70	62.	23.1	C	17.1	4.8
7	2	1220.	0.	0.	3108.	0.	0.	3108.	4400.	0.	0.	0.	.71	53.	29.3	D	17.9	4.4
8	3	4810.	452.	888.	3560.	452.	888.	3760.	6100.	0.	* 4148.	-200.	.62	11.	110.1	F	13.9	6.0
9	2	1370.	0.	0.	2672.	0.	0.	2872.	4000.	0.	** 1370.	-200.	.72	15.	96.1	F	19.5	5.3
10	2	660.	356.	0.	3028.	356.	0.	3228.	4371.	29.	** 660.	-200.	.74	16.	101.3	F	20.3	5.1
11	3	790.	1144.	732.	4172.	1144.	732.	4372.	5533.	567.	** 790.	-200.	.79	19.	77.7	F	27.2	4.5
12	2	1460.	0.	0.	3440.	0.	0.	3640.	4100.	0.	** 1460.	-200.	.89	26.	70.0	F	20.4	3.3
13	3	1400.	736.	0.	4176.	736.	0.	4376.	6016.	84.	** 1400.	-200.	.73	15.	94.8	F	11.6	5.2
14	3	2600.	0.	476.	4176.	0.	476.	4376.	6016.	84.	** 2600.	-200.	.73	15.	94.8	F	16.4	5.2
15	2	2010.	0.	0.	3700.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	820.	640.	4520.	820.	668.	4435.	6100.	0.	* 1109.	285.	.73	53.	27.9	F	18.1	4.1
17	2	1240.	0.	0.	3880.	0.	0.	3767.	4300.	0.	** 1240.	285.	.88	29.	64.7	F	17.6	3.1
18	3	930.	556.	0.	4436.	556.	0.	4323.	6097.	3.	** 930.	285.	.71	15.	98.1	F	16.0	5.3
19	3	5330.	236.	732.	4672.	236.	759.	4559.	6044.	56.	** 5330.	285.	.75	17.	90.8	F	17.0	4.9
20	2	2830.	0.	0.	3940.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	468.	680.	4408.	468.	658.	4268.	5862.	238.	0.	0.	.73	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	3728.	0.	0.	3610.	4400.	0.	0.	0.	.82	61.	29.8	D	21.3	3.5
23	2	3040.	168.	396.	3896.	168.	384.	3778.	4100.	0.	0.	0.	.92	57.	33.3	D	22.6	2.4
24	2	2190.	0.	0.	3500.	0.	0.	3394.	4200.	0.	0.	0.	.81	63.	27.0	D	20.1	4.9
25	3	2400.	148.	3648.	3648.	148.	3542.	3542.	6150.	0.	0.	0.	.58	65.	18.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 29.	50.6		17.5	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	386. VEH-HRS	455. PASS-HRS	2747. VEH-HRS	3242. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	386. VEH-HRS	455. PASS-HRS	2747. VEH-HRS	3242. PASS-HRS
TOTAL TRAV DISTANCE =	11191. VEH-MI.	13206. PASS-MI.	103436. VEH-MI.	122055. PASS-MI.
AVERAGE SYSTEM SPEED =	29. MPH.		38. MPH.	
AVERAGE DENSITY =	51. VPMPL		41. VPMPL	
TOTAL FUEL =	640. GALLONS		5636. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		391. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3176.	0.	3176.	3176.	0.	3176.	3850.	0.	0.	0.	.82	50.	31.8	D	17.4	2.3
2	2	2070.	324.	0.	3500.	324.	0.	3500.	3834.	16.	0.	0.	.91	50.	35.0	D	15.9	2.3
3	3	2300.	1236.	556.	4736.	1236.	556.	4736.	5669.	431.	0.	0.	.84	55.	28.7	D	14.0	2.4
4	3	1020.	0.	0.	4180.	0.	0.	4180.	6100.	0.	0.	0.	.69	62.	22.5	C	19.9	4.8
5	3	710.	88.	0.	4268.	88.	0.	4268.	6100.	0.	0.	0.	.70	62.	22.9	C	16.1	4.4
6	3	3820.	196.	1200.	4464.	196.	1200.	4464.	6121.	29.	0.	0.	.73	62.	24.0	C	17.1	4.8
7	2	1220.	0.	0.	3264.	0.	0.	3264.	4400.	0.	0.	0.	.74	62.	26.4	D	18.3	4.2
8	3	4810.	364.	880.	3628.	364.	880.	3800.	6100.	0.	* 3342.	-172.	.62	14.	93.6	F	14.8	5.7
9	2	1370.	0.	0.	2748.	0.	0.	2920.	4000.	0.	** 1370.	-172.	.73	16.	94.1	F	20.0	5.2
10	2	660.	356.	0.	3104.	356.	0.	3276.	4371.	29.	** 660.	-172.	.75	16.	99.4	F	20.8	4.9
11	3	790.	1124.	740.	4228.	1124.	740.	4400.	5521.	579.	** 790.	-172.	.80	19.	76.5	F	27.8	4.4
12	2	1460.	0.	0.	3488.	0.	0.	3660.	4100.	0.	** 1460.	-172.	.89	26.	69.2	F	20.5	3.3
13	3	1400.	708.	0.	4196.	708.	0.	4368.	6020.	80.	** 1400.	-172.	.73	15.	95.2	F	11.6	5.2
14	3	2600.	0.	468.	4196.	0.	468.	4368.	6020.	80.	** 2600.	-172.	.73	15.	95.2	F	16.4	5.2
15	2	2010.	0.	0.	3728.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	904.	620.	4632.	904.	643.	4394.	6100.	0.	* 3645.	410.	.72	29.	50.9	F	16.5	4.4
17	2	1240.	0.	0.	4012.	0.	0.	3751.	4300.	0.	** 1240.	410.	.87	25.	76.2	F	16.7	3.5
18	3	930.	572.	0.	4584.	572.	0.	4323.	6096.	4.	** 930.	410.	.71	15.	99.1	F	15.9	5.4
19	3	5330.	240.	740.	4824.	240.	763.	4563.	6044.	56.	** 5330.	410.	.75	17.	90.7	F	17.0	4.9
20	2	2830.	0.	0.	4084.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	444.	704.	4528.	444.	660.	4244.	5856.	244.	0.	0.	.72	61.	23.2	C	21.1	3.8
22	2	2270.	0.	0.	3824.	0.	0.	3584.	4400.	0.	0.	0.	.81	61.	29.5	D	21.2	3.6
23	2	3040.	196.	404.	4020.	196.	380.	3780.	4100.	0.	0.	0.	.92	57.	33.3	D	22.6	2.4
24	2	2190.	0.	0.	3616.	0.	0.	3400.	4200.	0.	0.	0.	.81	63.	27.0	D	20.2	4.9
25	3	2400.	132.	3748.	3748.	132.	3532.	3532.	6150.	0.	0.	0.	.57	65.	18.1	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 28.	52.2		17.4	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	399. VEH-HRS	470. PASS-HRS	3146. VEH-HRS	3712. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	399. VEH-HRS	470. PASS-HRS	3146. VEH-HRS	3712. PASS-HRS
TOTAL TRAV DISTANCE =	11346. VEH-MI.	13389. PASS-MI.	114783. VEH-MI.	135443. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		36. MPH.	
AVERAGE DENSITY =	52. VPMPL		42. VPMPL	
TOTAL FUEL =	652. GALLONS		6288. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		437. KILOGRAMS	

QUEUE COLLISION IN SECTION 15 T2 =0.242

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2748.	0.	2748.	2748.	0.	2748.	3850.	0.	0.	0.	.71	50.	27.5	D	17.4	2.3
2	2	2070.	396.	0.	3144.	396.	0.	3144.	3831.	19.	0.	0.	.82	50.	31.4	D	15.9	2.3
3	3	2300.	1232.	536.	4376.	1232.	536.	4376.	5712.	388.	0.	0.	.77	55.	26.5	D	14.0	2.4
4	3	1020.	0.	0.	3840.	0.	0.	3840.	6100.	0.	0.	0.	.63	62.	20.6	C	19.9	4.8
5	3	710.	104.	0.	3944.	104.	0.	3944.	6100.	0.	0.	0.	.65	62.	21.2	C	16.1	4.4
6	3	3820.	196.	1148.	4140.	196.	1148.	4140.	6136.	14.	0.	0.	.67	62.	22.3	C	17.1	4.8
7	2	1220.	0.	0.	2992.	0.	0.	2992.	4400.	0.	0.	0.	.68	62.	24.1	C	18.2	4.4
8	3	4810.	396.	836.	3388.	396.	836.	3178.	6100.	0.	* 1883.	210.	.52	17.	62.8	F	15.9	5.4
9	2	1370.	0.	0.	2552.	0.	0.	2342.	4000.	0.	** 1370.	210.	.59	15.	78.2	F	19.5	5.3
10	2	660.	332.	0.	2884.	332.	0.	2674.	4373.	27.	** 660.	210.	.61	16.	85.4	F	20.1	5.1
11	3	790.	1128.	720.	4012.	1128.	720.	3802.	5547.	553.	** 790.	210.	.69	18.	69.6	F	26.6	4.6
12	2	1460.	0.	0.	3292.	0.	0.	3082.	4100.	0.	** 1460.	210.	.75	25.	60.7	F	20.2	3.4
13	3	1400.	712.	0.	4004.	712.	0.	3794.	6020.	80.	** 1400.	210.	.63	15.	84.5	F	11.5	5.3
14	3	2600.	0.	444.	4004.	0.	444.	3794.	6020.	80.	** 2600.	210.	.63	15.	84.5	F	16.2	5.3
15	2	2010.	0.	0.	3560.	0.	0.	3350.	3900.	0.	** 2010.	550.	.86	46.	36.8	F	16.5	2.1
16	3	6120.	860.	532.	4420.	860.	573.	4210.	6100.	0.	** 6120.	550.	.69	16.	88.4	F	14.0	5.3
17	2	1240.	0.	0.	3888.	0.	0.	3637.	4300.	0.	** 1240.	550.	.85	22.	80.8	F	16.0	3.8
18	3	930.	632.	0.	4520.	632.	0.	4269.	6096.	4.	** 930.	550.	.70	14.	100.6	F	15.7	5.4
19	3	5330.	224.	652.	4744.	224.	693.	4493.	6044.	56.	** 5330.	550.	.74	16.	92.6	F	16.8	5.0
20	2	2830.	0.	0.	4092.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	492.	676.	4584.	492.	633.	4292.	5827.	273.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3908.	0.	0.	3659.	4400.	0.	0.	0.	.83	60.	30.3	D	21.5	3.4
23	2	3040.	164.	396.	4072.	164.	372.	3823.	4100.	0.	0.	0.	.93	56.	34.0	D	22.8	2.3
24	2	2190.	0.	0.	3676.	0.	0.	3451.	4200.	0.	0.	0.	.82	62.	27.6	D	20.3	4.6
25	3	2400.	88.	3764.	3764.	88.	3539.	3539.	6150.	0.	0.	0.	.58	65.	18.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 26.	51.5		17.1	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	415. VEH-HRS	489. PASS-HRS	3561. VEH-HRS	4201. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	415. VEH-HRS	489. PASS-HRS	3561. VEH-HRS	4201. PASS-HRS
TOTAL TRAV DISTANCE =	10868. VEH-MI.	12825. PASS-MI.	125651. VEH-MI.	148268. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		35. MPH.	
AVERAGE DENSITY =	52. VPMPL		43. VPMPL	
TOTAL FUEL =	636. GALLONS		6924. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		483. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3028.	0.	3028.	3028.	0.	3028.	3850.	0.	0.	0.	.79	50.	30.3	D	17.4	2.3
2	2	2070.	324.	0.	3352.	324.	0.	3352.	3832.	18.	0.	0.	.87	50.	33.5	D	15.9	2.3
3	3	2300.	1080.	528.	4432.	1080.	528.	4432.	5720.	380.	0.	0.	.77	55.	26.9	D	14.0	2.4
4	3	1020.	0.	0.	3904.	0.	0.	3904.	6100.	0.	0.	0.	.64	62.	21.0	C	19.9	4.8
5	3	710.	104.	0.	4008.	104.	0.	4008.	6100.	0.	0.	0.	.66	62.	21.5	C	16.1	4.4
6	3	3820.	208.	1148.	4216.	208.	1148.	4216.	6135.	15.	0.	0.	.69	62.	22.7	C	17.1	4.8
7	2	1220.	0.	0.	3068.	0.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	18.2	4.4
8	3	4810.	476.	820.	3544.	476.	820.	3260.	6100.	0.	* 3028.	284.	.53	15.	71.7	F	14.6	5.7
9	2	1370.	0.	0.	2724.	0.	0.	2440.	4000.	0.	** 1370.	284.	.61	11.	113.7	F	15.2	6.1
10	2	660.	284.	0.	3008.	284.	0.	2724.	4376.	24.	** 660.	284.	.62	11.	122.2	F	15.5	6.1
11	3	790.	1144.	744.	4152.	1144.	744.	3868.	5532.	568.	** 790.	284.	.70	14.	91.4	F	21.6	5.4
12	2	1460.	0.	0.	3408.	0.	0.	3124.	4100.	0.	** 1460.	284.	.76	17.	91.1	F	17.2	4.8
13	3	1400.	712.	0.	4120.	712.	0.	3836.	6016.	84.	** 1400.	284.	.64	12.	109.5	F	10.5	5.9
14	3	2600.	0.	492.	4120.	0.	492.	3836.	6016.	84.	** 2600.	284.	.64	12.	109.5	F	14.1	5.9
15	2	2010.	0.	0.	3628.	0.	0.	3344.	3900.	0.	** 2010.	284.	.86	23.	71.5	F	13.7	3.7
16	3	6120.	836.	588.	4464.	836.	588.	4180.	6100.	0.	** 6120.	284.	.69	14.	103.1	F	13.2	5.6
17	2	1240.	0.	0.	3876.	0.	0.	3592.	4300.	0.	** 1240.	284.	.84	22.	82.7	F	15.8	3.9
18	3	930.	652.	0.	4528.	652.	0.	4244.	6096.	4.	** 930.	284.	.70	14.	101.2	F	15.5	5.5
19	3	5330.	228.	672.	4756.	228.	672.	4472.	6041.	59.	** 5330.	284.	.74	16.	93.1	F	16.7	5.0
20	2	2830.	0.	0.	4084.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	528.	732.	4612.	528.	687.	4328.	5767.	333.	0.	0.	.75	61.	23.7	C	21.1	3.8
22	2	2270.	0.	0.	3880.	0.	0.	3641.	4400.	0.	0.	0.	.83	60.	30.1	D	21.4	3.4
23	2	3040.	208.	376.	4088.	208.	354.	3849.	4100.	0.	0.	0.	.94	56.	34.5	D	22.9	2.2
24	2	2190.	0.	0.	3712.	0.	0.	3495.	4200.	0.	0.	0.	.83	62.	28.1	D	20.5	4.4
25	3	2400.	132.	3844.	3844.	132.	3627.	3627.	6150.	0.	0.	0.	.59	65.	18.6	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 24.	59.3		16.4	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	453. VEH-HRS	535. PASS-HRS	4014. VEH-HRS	4736. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	453. VEH-HRS	535. PASS-HRS	4014. VEH-HRS	4736. PASS-HRS
TOTAL TRAV DISTANCE =	10707. VEH-MI.	12635. PASS-MI.	136358. VEH-MI.	160903. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		34. MPH.	
AVERAGE DENSITY =	59. VPMPL		44. VPMPL	
TOTAL FUEL =	653. GALLONS		7577. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		529. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2628.	0.	2628.	2628.	0.	2628.	3850.	0.	0.	0.	.68	50.	26.3	D	17.4	2.3
2	2	2070.	476.	0.	3104.	476.	0.	3104.	3829.	21.	0.	0.	.81	50.	31.0	D	15.9	2.3
3	3	2300.	1256.	468.	4360.	1256.	468.	4360.	5761.	339.	0.	0.	.76	55.	26.4	D	14.0	2.4
4	3	1020.	0.	0.	3892.	0.	0.	3892.	6100.	0.	0.	0.	.64	62.	20.9	C	19.9	4.8
5	3	710.	120.	0.	4012.	120.	0.	4012.	6100.	0.	0.	0.	.66	62.	21.6	C	16.1	4.4
6	3	3820.	208.	1204.	4220.	208.	1204.	4220.	6120.	30.	0.	0.	.69	62.	22.7	C	17.1	4.8
7	2	1220.	0.	0.	3016.	0.	0.	3016.	4400.	0.	0.	0.	.69	62.	24.3	C	18.2	4.4
8	3	4810.	404.	836.	3420.	404.	836.	3288.	6100.	0.	* 3561.	132.	.54	12.	91.9	F	13.3	6.2
9	2	1370.	0.	0.	2584.	0.	0.	2452.	4000.	0.	** 1370.	132.	.61	11.	113.2	F	15.3	6.1
10	2	660.	380.	0.	2964.	380.	0.	2832.	4367.	33.	** 660.	132.	.65	12.	117.3	F	16.4	5.9
11	3	790.	1156.	768.	4120.	1156.	768.	3988.	5509.	591.	** 790.	132.	.72	15.	87.3	F	23.2	5.2
12	2	1460.	0.	0.	3352.	0.	0.	3220.	4100.	0.	** 1460.	132.	.79	18.	87.2	F	17.8	4.5
13	3	1400.	752.	0.	4104.	752.	0.	3972.	5992.	108.	** 1400.	132.	.66	13.	104.9	F	10.7	5.8
14	3	2600.	0.	592.	4104.	0.	592.	3972.	5992.	108.	** 2600.	132.	.66	13.	104.9	F	14.6	5.8
15	2	2010.	0.	0.	3512.	0.	0.	3380.	3900.	0.	** 2010.	132.	.87	24.	70.0	F	13.8	3.6
16	3	6120.	836.	612.	4348.	836.	612.	4216.	6100.	0.	** 6120.	132.	.69	14.	102.1	F	13.3	5.5
17	2	1240.	0.	0.	3736.	0.	0.	3604.	4300.	0.	** 1240.	132.	.84	22.	82.2	F	15.8	3.9
18	3	930.	644.	0.	4380.	644.	0.	4248.	6097.	3.	** 930.	132.	.70	14.	101.2	F	15.5	5.5
19	3	5330.	256.	704.	4636.	256.	704.	4504.	6043.	57.	** 5330.	132.	.75	16.	92.3	F	16.8	5.0
20	2	2830.	0.	0.	3932.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	552.	756.	4484.	552.	734.	4352.	5755.	345.	0.	0.	.76	61.	23.8	C	21.1	3.8
22	2	2270.	0.	0.	3728.	0.	0.	3618.	4400.	0.	0.	0.	.82	61.	29.9	D	21.3	3.5
23	2	3040.	208.	400.	3936.	208.	389.	3826.	4100.	0.	0.	0.	.93	56.	34.1	D	22.8	2.3
24	2	2190.	0.	0.	3536.	0.	0.	3437.	4200.	0.	0.	0.	.82	63.	27.5	D	20.3	4.7
25	3	2400.	112.	3648.	3648.	112.	3549.	3549.	6150.	0.	0.	0.	.58	65.	18.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 23.		59.6	16.4	4.4

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 13 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	456. VEH-HRS	539. PASS-HRS	4470. VEH-HRS	5275. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	456. VEH-HRS	539. PASS-HRS	4470. VEH-HRS	5275. PASS-HRS
TOTAL TRAV DISTANCE =	10583. VEH-MI.	12487. PASS-MI.	146941. VEH-MI.	173390. PASS-MI.
AVERAGE SYSTEM SPEED =	23. MPH.		33. MPH.	
AVERAGE DENSITY =	60. VPMPL		45. VPMPL	
TOTAL FUEL =	647. GALLONS		8224. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		576. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3108.	0.	3108.	3108.	0.	3108.	3850.	0.	0.	0.	.81	50.	31.1	D	17.4	2.3
2	2	2070.	324.	0.	3432.	324.	0.	3432.	3837.	13.	0.	0.	.89	50.	34.3	D	15.9	2.3
3	3	2300.	1176.	396.	4608.	1176.	396.	4608.	5819.	281.	0.	0.	.79	55.	27.9	D	14.0	2.4
4	3	1020.	0.	0.	4212.	0.	0.	4212.	6100.	0.	0.	0.	.69	62.	22.6	C	19.9	4.8
5	3	710.	108.	0.	4320.	108.	0.	4320.	6100.	0.	0.	0.	.71	62.	23.2	C	16.1	4.4
6	3	3820.	192.	1228.	4512.	192.	1228.	4512.	6122.	28.	0.	0.	.74	62.	24.3	C	17.1	4.8
7	2	1220.	0.	0.	3284.	0.	0.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	18.3	4.2
8	3	4810.	312.	880.	3596.	312.	880.	3424.	6100.	0.	* 4286.	172.	.56	11.	103.5	F	13.1	6.3
9	2	1370.	0.	0.	2716.	0.	0.	2544.	4000.	0.	** 1370.	172.	.64	12.	109.5	F	16.0	6.0
10	2	660.	476.	0.	3192.	476.	0.	3020.	4362.	38.	** 660.	172.	.69	14.	109.3	F	18.2	5.5
11	3	790.	1108.	772.	4300.	1108.	772.	4128.	5482.	618.	** 790.	172.	.75	17.	82.6	F	24.7	4.9
12	2	1460.	0.	0.	3528.	0.	0.	3356.	4100.	0.	** 1460.	172.	.82	21.	81.6	F	18.7	4.1
13	3	1400.	712.	0.	4240.	712.	0.	4068.	5996.	104.	** 1400.	172.	.68	13.	102.5	F	10.9	5.6
14	3	2600.	0.	620.	4240.	0.	620.	4068.	5996.	104.	** 2600.	172.	.68	13.	102.5	F	15.0	5.6
15	2	2010.	0.	0.	3620.	0.	0.	3448.	3900.	0.	** 2010.	172.	.88	26.	67.2	F	14.2	3.4
16	3	6120.	800.	616.	4420.	800.	616.	4248.	6100.	0.	** 6120.	172.	.70	14.	101.3	F	13.5	5.5
17	2	1240.	0.	0.	3804.	0.	0.	3632.	4300.	0.	** 1240.	172.	.84	22.	81.0	F	16.0	3.8
18	3	930.	632.	0.	4436.	632.	0.	4264.	6097.	3.	** 930.	172.	.70	14.	100.7	F	15.6	5.4
19	3	5330.	252.	716.	4688.	252.	716.	4516.	6043.	57.	** 5330.	172.	.75	16.	91.9	F	16.8	5.0
20	2	2830.	0.	0.	3972.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	500.	760.	4472.	500.	731.	4300.	5788.	312.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3712.	0.	0.	3569.	4400.	0.	0.	0.	.81	61.	29.4	D	21.2	3.6
23	2	3040.	212.	420.	3924.	212.	405.	3781.	4100.	0.	0.	0.	.92	57.	33.3	D	22.6	2.4
24	2	2190.	0.	0.	3504.	0.	0.	3377.	4200.	0.	0.	0.	.80	63.	26.8	D	20.1	5.0
25	3	2400.	100.	3604.	3604.	100.	3477.	3477.	6150.	0.	0.	0.	.57	65.	17.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 24.	60.5		16.4	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	464. VEH-HRS	547. PASS-HRS	4934. VEH-HRS	5822. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	464. VEH-HRS	547. PASS-HRS	4934. VEH-HRS	5822. PASS-HRS
TOTAL TRAV DISTANCE =	10943. VEH-MI.	12913. PASS-MI.	157884. VEH-MI.	186303. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		32. MPH.	
AVERAGE DENSITY =	60. VPMPL		46. VPMPL	
TOTAL FUEL =	666. GALLONS		8889. GALLONS	
TOTAL EMISSIONS =	48. KILOGRAMS		624. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2868.	0.	2868.	2868.	0.	2868.	3850.	0.	0.	0.	.74	50.	28.7	D	17.4	2.3
2	2	2070.	300.	0.	3168.	300.	0.	3168.	3838.	12.	0.	0.	.83	50.	31.7	D	15.9	2.3
3	3	2300.	1160.	404.	4328.	1160.	404.	4328.	5820.	280.	0.	0.	.74	55.	26.2	D	14.0	2.4
4	3	1020.	0.	0.	3924.	0.	0.	3924.	6100.	0.	0.	0.	.64	62.	21.1	C	19.9	4.8
5	3	710.	112.	0.	4036.	112.	0.	4036.	6100.	0.	0.	0.	.66	62.	21.7	C	16.1	4.4
6	3	3820.	180.	1156.	4216.	180.	1156.	4216.	6137.	13.	0.	0.	.69	62.	22.7	C	17.1	4.8
7	2	1220.	0.	0.	3060.	0.	0.	2872.	4400.	0.	* 410.	188.	.65	52.	27.7	F	17.8	4.4
8	3	4810.	396.	844.	3456.	396.	844.	3268.	6100.	0.	** 4810.	188.	.54	9.	123.6	F	11.5	7.0
9	2	1370.	0.	0.	2612.	0.	0.	2424.	4000.	0.	** 1370.	188.	.61	11.	114.4	F	15.1	6.2
10	2	660.	532.	0.	3144.	532.	0.	2956.	4358.	42.	** 660.	188.	.68	13.	111.8	F	17.5	5.6
11	3	790.	1056.	732.	4200.	1056.	732.	4012.	5502.	598.	** 790.	188.	.73	15.	86.4	F	23.4	5.2
12	2	1460.	0.	0.	3468.	0.	0.	3280.	4100.	0.	** 1460.	188.	.80	19.	84.7	F	18.2	4.3
13	3	1400.	724.	0.	4192.	724.	0.	4004.	5996.	104.	** 1400.	188.	.67	13.	104.2	F	10.8	5.7
14	3	2600.	0.	600.	4192.	0.	600.	4004.	5996.	104.	** 2600.	188.	.67	13.	104.2	F	14.7	5.7
15	2	2010.	0.	0.	3592.	0.	0.	3404.	3900.	0.	** 2010.	188.	.87	25.	69.0	F	14.0	3.5
16	3	6120.	812.	564.	4404.	812.	564.	4216.	6100.	0.	** 6120.	188.	.69	14.	102.1	F	13.3	5.5
17	2	1240.	0.	0.	3840.	0.	0.	3652.	4300.	0.	** 1240.	188.	.85	23.	80.2	F	16.1	3.8
18	3	930.	624.	0.	4464.	624.	0.	4276.	6097.	3.	** 930.	188.	.70	14.	100.4	F	15.7	5.4
19	3	5330.	212.	688.	4676.	212.	688.	4488.	6041.	59.	** 5330.	188.	.74	16.	92.6	F	16.8	5.0
20	2	2830.	0.	0.	3988.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	432.	696.	4420.	432.	666.	4232.	5882.	218.	0.	0.	.72	61.	23.1	C	21.1	3.8
22	2	2270.	0.	0.	3724.	0.	0.	3566.	4400.	0.	0.	0.	.81	61.	29.3	D	21.2	3.7
23	2	3040.	256.	408.	3980.	256.	392.	3822.	4100.	0.	0.	0.	.93	56.	34.0	D	22.8	2.3
24	2	2190.	0.	0.	3572.	0.	0.	3430.	4200.	0.	0.	0.	.82	63.	27.4	D	20.3	4.7
25	3	2400.	128.	3700.	3700.	128.	3558.	3558.	6150.	0.	0.	0.	.58	65.	18.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	62.2		16.2	4.4

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 15 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	478. VEH-HRS	564. PASS-HRS	5412. VEH-HRS	6386. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	478. VEH-HRS	564. PASS-HRS	5412. VEH-HRS	6386. PASS-HRS
TOTAL TRAV DISTANCE =	10648. VEH-MI.	12565. PASS-MI.	168532. VEH-MI.	198868. PASS-MI.
AVERAGE SYSTEM SPEED =	22. MPH.		31. MPH.	
AVERAGE DENSITY =	62. VPMPL		47. VPMPL	
TOTAL FUEL =	659. GALLONS		9548. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		671. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3620.	0.	3620.	3620.	0.	3597.	3850.	0.	* 695.	23.	.93	48.	37.2	F	17.2	2.4
2	2	2070.	244.	0.	3864.	244.	0.	3841.	3841.	9.	0.	0.	1.00	49.	39.3	E	15.7	2.3
3	3	2300.	1072.	388.	4936.	1072.	386.	4913.	5816.	284.	0.	0.	.84	55.	29.8	D	14.0	2.4
4	3	1020.	0.	0.	4548.	0.	0.	4526.	6100.	0.	0.	0.	.74	62.	24.3	C	19.9	4.8
5	3	710.	100.	0.	4648.	100.	0.	4626.	6100.	0.	0.	0.	.76	62.	25.0	C	16.3	4.1
6	3	3820.	164.	1192.	4812.	164.	1187.	4705.	6131.	19.	* 73.	86.	.77	61.	25.6	F	17.4	4.4
7	2	1220.	0.	0.	3620.	0.	0.	3518.	4400.	0.	** 1220.	86.	.80	24.	72.7	F	16.0	4.1
8	3	4810.	288.	864.	3908.	288.	860.	3806.	6100.	0.	** 4810.	86.	.62	11.	113.3	F	13.8	6.0
9	2	1370.	0.	0.	3044.	0.	0.	2946.	4000.	0.	** 1370.	86.	.74	16.	93.1	F	20.2	5.1
10	2	660.	424.	0.	3468.	424.	0.	3370.	4365.	35.	** 660.	86.	.77	18.	95.2	F	21.9	4.7
11	3	790.	1088.	808.	4556.	1088.	806.	4458.	5443.	657.	** 790.	86.	.82	21.	72.2	F	29.4	4.1
12	2	1460.	0.	0.	3748.	0.	0.	3652.	4100.	0.	** 1460.	86.	.89	26.	69.6	F	20.5	3.3
13	3	1400.	716.	0.	4464.	716.	0.	4368.	5992.	108.	** 1400.	86.	.73	15.	94.2	F	11.6	5.2
14	3	2600.	0.	676.	4464.	0.	674.	4368.	5992.	108.	** 2600.	86.	.73	15.	94.2	F	16.5	5.2
15	2	2010.	0.	0.	3788.	0.	0.	3693.	3900.	0.	** 2010.	86.	.95	32.	57.2	F	15.2	2.7
16	3	6120.	708.	684.	4496.	708.	683.	4401.	6100.	0.	** 6120.	86.	.72	15.	97.1	F	14.0	5.2
17	2	1240.	0.	0.	3812.	0.	0.	3719.	4300.	0.	** 1240.	86.	.86	24.	77.5	F	16.5	3.6
18	3	930.	612.	0.	4424.	612.	0.	4331.	6097.	3.	** 930.	86.	.71	15.	98.9	F	16.0	5.3
19	3	5330.	216.	748.	4640.	216.	747.	4547.	6040.	60.	** 5330.	86.	.75	17.	91.0	F	17.0	4.9
20	2	2830.	0.	0.	3892.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	456.	768.	4348.	456.	752.	4256.	5837.	263.	0.	0.	.73	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	3580.	0.	0.	3504.	4400.	0.	0.	0.	.80	61.	28.7	D	21.0	3.8
23	2	3040.	196.	440.	3776.	196.	431.	3700.	4100.	0.	0.	0.	.90	58.	32.1	D	22.3	2.6
24	2	2190.	0.	0.	3336.	0.	0.	3269.	4200.	0.	0.	0.	.78	64.	25.7	C	19.8	5.3
25	3	2400.	104.	3440.	3440.	104.	3373.	3373.	6150.	0.	0.	0.	.55	65.	17.3	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 25.		60.6	16.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	463. VEH-HRS	547. PASS-HRS	5875. VEH-HRS	6933. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	463. VEH-HRS	547. PASS-HRS	5875. VEH-HRS	6933. PASS-HRS
TOTAL TRAV DISTANCE =	11504. VEH-MI.	13575. PASS-MI.	180036. VEH-MI.	212443. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		31. MPH.	
AVERAGE DENSITY =	61. VPMPL		48. VPMPL	
TOTAL FUEL =	685. GALLONS		10233. GALLONS	
TOTAL EMISSIONS =	48. KILOGRAMS		719. KILOGRAMS	

QUEUE CLEAR SECTION 1 FT= 148

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3212.	0.	3212.	3212.	0.	3246.	3850.	0.	0.	-34.	.84	46.	35.2	E	17.0	2.5
2	2	2070.	280.	0.	3492.	280.	0.	3526.	3841.	9.	0.	0.	.92	50.	35.3	E	15.9	2.3
3	3	2300.	1300.	336.	4792.	1300.	338.	4826.	5858.	242.	0.	0.	.82	55.	29.2	D	14.0	2.4
4	3	1020.	0.	0.	4456.	0.	0.	4487.	6100.	0.	0.	0.	.74	62.	24.1	C	19.9	4.8
5	3	710.	152.	0.	4608.	152.	0.	4639.	6100.	0.	0.	0.	.76	62.	25.1	C	16.3	4.1
6	3	3820.	208.	1140.	4816.	208.	1147.	4847.	6126.	24.	0.	0.	.79	61.	26.5	D	17.5	4.3
7	2	1220.	0.	0.	3676.	0.	0.	3775.	4400.	0.	* 354.	-75.	.86	29.	65.5	F	17.1	3.5
8	3	4810.	340.	788.	4016.	340.	793.	4115.	6100.	0.	** 4810.	-75.	.67	13.	104.9	F	14.9	5.7
9	2	1370.	0.	0.	3228.	0.	0.	3322.	4000.	0.	** 1370.	-75.	.83	21.	77.7	F	24.8	4.0
10	2	660.	276.	0.	3504.	276.	0.	3598.	4378.	22.	** 660.	-75.	.82	21.	86.6	F	24.5	4.1
11	3	790.	1100.	820.	4604.	1100.	823.	4698.	5450.	650.	** 790.	-75.	.86	24.	65.9	F	31.9	3.6
12	2	1460.	0.	0.	3784.	0.	0.	3875.	4100.	0.	** 1460.	-75.	.95	32.	60.5	F	22.0	2.8
13	3	1400.	684.	0.	4468.	684.	0.	4559.	5988.	112.	** 1400.	-75.	.76	17.	88.8	F	11.9	4.8
14	3	2600.	0.	724.	4468.	0.	727.	4559.	5988.	112.	** 2600.	-75.	.76	17.	88.8	F	17.2	4.8
15	2	2010.	0.	0.	3744.	0.	0.	3832.	3900.	0.	** 2010.	-75.	.98	37.	51.5	F	15.4	2.4
16	3	6120.	672.	744.	4416.	672.	746.	4504.	6100.	0.	** 6120.	-75.	.74	16.	94.3	F	14.2	5.1
17	2	1240.	0.	0.	3672.	0.	0.	3758.	4300.	0.	** 1240.	-75.	.87	25.	75.9	F	16.8	3.5
18	3	930.	540.	0.	4212.	540.	0.	4298.	6098.	2.	** 930.	-75.	.70	14.	99.8	F	15.8	5.4
19	3	5330.	204.	700.	4416.	204.	702.	4502.	6054.	46.	** 5330.	-75.	.74	16.	92.7	F	16.8	5.0
20	2	2830.	0.	0.	3716.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	472.	756.	4188.	472.	771.	4272.	5828.	272.	0.	0.	.73	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	3432.	0.	0.	3501.	4400.	0.	0.	0.	.80	61.	28.7	D	21.0	3.8
23	2	3040.	180.	400.	3612.	180.	408.	3681.	4100.	0.	0.	0.	.90	58.	31.8	D	22.2	2.7
24	2	2190.	0.	0.	3212.	0.	0.	3273.	4200.	0.	0.	0.	.78	64.	25.7	C	19.8	5.3
25	3	2400.	88.	3300.	3300.	88.	3361.	3361.	6150.	0.	0.	0.	.55	65.	17.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 26.	58.0		17.1	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	445. VEH-HRS	525. PASS-HRS	6320. VEH-HRS	7458. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	445. VEH-HRS	525. PASS-HRS	6320. VEH-HRS	7458. PASS-HRS
TOTAL TRAV DISTANCE =	11556. VEH-MI.	13636. PASS-MI.	191592. VEH-MI.	226079. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		30. MPH.	
AVERAGE DENSITY =	58. VPMPL		49. VPMPL	
TOTAL FUEL =	676. GALLONS		10909. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		766. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3016.	0.	3016.	3016.	0.	3016.	3850.	0.	0.	0.	.78	50.	30.2	D	17.4	2.3
2	2	2070.	344.	0.	3360.	344.	0.	3360.	3839.	11.	0.	0.	.88	50.	33.6	D	15.9	2.3
3	3	2300.	1376.	320.	4736.	1376.	320.	4736.	5859.	241.	0.	0.	.81	55.	28.7	D	14.0	2.4
4	3	1020.	0.	0.	4416.	0.	0.	4416.	6100.	0.	0.	0.	.72	62.	23.7	C	19.9	4.8
5	3	710.	212.	0.	4628.	212.	0.	4628.	6100.	0.	0.	0.	.76	62.	25.0	C	16.3	4.1
6	3	3820.	172.	1032.	4800.	172.	1032.	4800.	6150.	0.	0.	0.	.78	61.	26.1	D	17.4	4.4
7	2	1220.	0.	0.	3768.	0.	0.	3772.	4400.	0.	* 300.	-4.	.86	42.	44.8	F	18.3	3.2
8	3	4810.	324.	716.	4092.	324.	716.	4096.	6100.	0.	** 4810.	-4.	.67	13.	105.4	F	14.8	5.7
9	2	1370.	0.	0.	3376.	0.	0.	3380.	4000.	0.	** 1370.	-4.	.85	22.	75.3	F	25.2	3.8
10	2	660.	284.	0.	3660.	284.	0.	3664.	4378.	22.	** 660.	-4.	.84	22.	83.9	F	25.0	3.9
11	3	790.	1016.	788.	4676.	1016.	788.	4680.	5458.	642.	** 790.	-4.	.86	23.	66.7	F	31.6	3.7
12	2	1460.	0.	0.	3888.	0.	0.	3892.	4100.	0.	** 1460.	-4.	.95	33.	59.7	F	22.1	2.7
13	3	1400.	580.	0.	4468.	580.	0.	4472.	6016.	84.	** 1400.	-4.	.74	16.	92.2	F	11.7	5.0
14	3	2600.	0.	648.	4468.	0.	648.	4472.	6016.	84.	** 2600.	-4.	.74	16.	92.2	F	16.8	5.0
15	2	2010.	0.	0.	3820.	0.	0.	3824.	3900.	0.	** 2010.	-4.	.98	37.	51.9	F	15.4	2.4
16	3	6120.	672.	696.	4492.	672.	696.	4496.	6100.	0.	** 6120.	-4.	.74	16.	94.5	F	14.2	5.1
17	2	1240.	0.	0.	3796.	0.	0.	3800.	4300.	0.	** 1240.	-4.	.88	26.	74.2	F	17.0	3.4
18	3	930.	496.	0.	4292.	496.	0.	4296.	6098.	2.	** 930.	-4.	.70	14.	99.9	F	15.8	5.4
19	3	5330.	180.	676.	4472.	180.	676.	4476.	6055.	45.	** 5330.	-4.	.74	16.	93.4	F	16.7	5.1
20	2	2830.	0.	0.	3796.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	416.	688.	4212.	416.	689.	4216.	5909.	191.	0.	0.	.71	61.	23.0	C	21.1	3.8
22	2	2270.	0.	0.	3524.	0.	0.	3527.	4400.	0.	0.	0.	.80	61.	28.9	D	21.1	3.8
23	2	3040.	224.	416.	3748.	224.	416.	3751.	4100.	0.	0.	0.	.91	57.	32.8	D	22.5	2.5
24	2	2190.	0.	0.	3332.	0.	0.	3335.	4200.	0.	0.	0.	.79	63.	26.4	D	19.9	5.1
25	3	2400.	88.	3420.	3420.	88.	3423.	3423.	6150.	0.	0.	0.	.56	65.	17.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 26.	57.3		17.1	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	442. VEH-HRS	521. PASS-HRS	6762. VEH-HRS	7979. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	442. VEH-HRS	521. PASS-HRS	6762. VEH-HRS	7979. PASS-HRS
TOTAL TRAV DISTANCE =	11460. VEH-MI.	13523. PASS-MI.	203053. VEH-MI.	239602. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		30. MPH.	
AVERAGE DENSITY =	57. VPMPL		49. VPMPL	
TOTAL FUEL =	669. GALLONS		11578. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		813. KILOGRAMS	

QUEUE SPLIT SECTION 15

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3072.	0.	3072.	3072.	0.	3072.	3850.	0.	0.	0.	.80	50.	30.7	D	17.4	2.3
2	2	2070.	348.	0.	3420.	348.	0.	3420.	3837.	13.	0.	0.	.89	50.	34.2	D	15.9	2.3
3	3	2300.	1444.	376.	4864.	1444.	376.	4864.	5821.	279.	0.	0.	.84	55.	29.5	D	14.0	2.4
4	3	1020.	0.	0.	4488.	0.	0.	4488.	6100.	0.	0.	0.	.74	62.	24.1	C	19.9	4.8
5	3	710.	224.	0.	4712.	224.	0.	4712.	6100.	0.	0.	0.	.77	61.	25.6	C	16.3	4.0
6	3	3820.	284.	736.	4996.	284.	736.	4785.	6150.	0.	* 1219.	211.	.78	47.	33.9	F	17.0	4.2
7	2	1220.	0.	0.	4260.	0.	0.	4049.	4400.	0.	** 1220.	211.	.92	30.	66.8	F	18.3	2.9
8	3	4810.	336.	760.	4596.	336.	760.	4385.	6100.	0.	** 4810.	211.	.72	15.	97.5	F	16.3	5.3
9	2	1370.	0.	0.	3836.	0.	0.	3625.	4000.	0.	** 1370.	211.	.91	28.	65.3	F	27.5	3.1
10	2	660.	360.	0.	4196.	360.	0.	3985.	4373.	27.	** 660.	211.	.91	28.	70.5	F	27.7	3.1
11	3	790.	852.	832.	5048.	852.	832.	4837.	5375.	725.	** 790.	211.	.90	27.	59.4	F	34.7	3.2
12	2	1460.	0.	0.	4216.	0.	0.	4005.	4100.	0.	** 1460.	95.	.98	36.	55.1	F	22.8	2.5
13	3	1400.	472.	0.	4688.	472.	0.	4477.	6040.	60.	** 1400.	95.	.74	16.	92.9	F	11.7	5.0
14	3	2600.	0.	592.	4688.	0.	577.	4477.	6040.	60.	** 2600.	95.	.74	16.	92.9	F	16.7	5.0
15	2	2010.	0.	0.	4096.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	520.	768.	4616.	520.	735.	4677.	6100.	0.	* 4393.	-257.	.77	19.	80.9	F	14.9	4.7
17	2	1240.	0.	0.	3848.	0.	0.	3941.	4300.	0.	** 1240.	-257.	.92	29.	68.4	F	18.0	3.0
18	3	930.	396.	0.	4244.	396.	0.	4337.	6098.	2.	** 930.	-257.	.71	15.	98.8	F	16.0	5.3
19	3	5330.	152.	716.	4396.	152.	689.	4489.	6062.	38.	** 5330.	-257.	.74	16.	93.3	F	16.7	5.0
20	2	2830.	0.	0.	3680.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	340.	772.	4020.	340.	795.	4140.	5934.	166.	0.	0.	.70	61.	22.6	C	21.1	3.8
22	2	2270.	0.	0.	3248.	0.	0.	3345.	4400.	0.	0.	0.	.76	62.	27.2	D	20.8	4.1
23	2	3040.	188.	480.	3436.	188.	493.	3533.	4100.	0.	0.	0.	.86	59.	29.8	D	21.8	3.0
24	2	2190.	0.	0.	2956.	0.	0.	3040.	4200.	0.	0.	0.	.72	65.	23.5	C	19.4	5.8
25	3	2400.	80.	3036.	3036.	80.	3120.	3120.	6150.	0.	0.	0.	.51	65.	16.0	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 27. 54.8 17.4 4.0

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 19 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	423. VEH-HRS	499. PASS-HRS	7184. VEH-HRS	8478. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	423. VEH-HRS	499. PASS-HRS	7184. VEH-HRS	8478. PASS-HRS
TOTAL TRAV DISTANCE =	11598. VEH-MI.	13685. PASS-MI.	214650. VEH-MI.	253287. PASS-MI.
AVERAGE SYSTEM SPEED =	27. MPH.		30. MPH.	
AVERAGE DENSITY =	55. VPMPL		50. VPMPL	
TOTAL FUEL =	665. GALLONS		12243. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		859. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2352.	0.	2352.	2352.	0.	2352.	3850.	0.	0.	0.	.61	50.	23.5	C	17.4	2.3
2	2	2070.	344.	0.	2696.	344.	0.	2696.	3840.	10.	0.	0.	.70	50.	27.0	D	15.9	2.3
3	3	2300.	1532.	364.	4228.	1532.	364.	4228.	5857.	243.	0.	0.	.72	55.	25.6	C	14.0	2.4
4	3	1020.	0.	0.	3864.	0.	0.	3864.	6100.	0.	0.	0.	.63	62.	20.8	C	19.9	4.8
5	3	710.	328.	0.	4192.	328.	0.	4192.	6100.	0.	0.	0.	.69	62.	22.5	C	16.1	4.4
6	3	3820.	340.	828.	4532.	340.	828.	4532.	6150.	0.	0.	0.	.74	47.	32.0	D	16.6	4.8
7	2	1220.	0.	0.	3704.	0.	0.	3940.	4400.	0.	* 341.	-236.	.90	28.	70.4	F	17.5	3.2
8	3	4810.	432.	716.	4136.	432.	716.	4372.	6100.	0.	** 4810.	-236.	.72	15.	97.9	F	16.2	5.3
9	2	1370.	0.	0.	3420.	0.	0.	3656.	4000.	0.	** 1370.	-236.	.91	29.	64.1	F	27.8	3.1
10	2	660.	324.	0.	3744.	324.	0.	3980.	4375.	25.	** 660.	-236.	.91	28.	70.8	F	27.6	3.1
11	3	790.	796.	760.	4540.	796.	760.	4776.	5441.	659.	** 790.	-236.	.88	25.	63.5	F	33.1	3.4
12	2	1460.	0.	0.	3780.	0.	0.	4016.	4100.	0.	** 1460.	-236.	.98	37.	54.7	F	22.8	2.4
13	3	1400.	444.	0.	4224.	444.	0.	4460.	6040.	60.	** 1400.	-236.	.74	16.	93.4	F	11.7	5.1
14	3	2600.	0.	560.	4224.	0.	560.	4460.	6040.	60.	** 2600.	-236.	.74	16.	93.4	F	16.7	5.1
15	2	2010.	0.	0.	3664.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	404.	712.	4068.	404.	753.	4623.	6100.	0.	* 2323.	-319.	.76	25.	62.3	F	15.8	4.6
17	2	1240.	0.	0.	3356.	0.	0.	3870.	4300.	0.	** 1240.	-319.	.90	27.	71.3	F	17.5	3.2
18	3	930.	440.	0.	3796.	440.	0.	4310.	6100.	0.	** 930.	-319.	.71	14.	99.6	F	15.9	5.4
19	3	5330.	128.	608.	3924.	128.	638.	4438.	6068.	32.	** 5330.	-319.	.73	16.	95.0	F	16.5	5.1
20	2	2830.	0.	0.	3316.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	344.	664.	3660.	344.	751.	4144.	5988.	112.	0.	0.	.69	61.	22.6	C	21.1	3.8
22	2	2270.	0.	0.	2996.	0.	0.	3393.	4400.	0.	0.	0.	.77	61.	27.6	D	20.8	4.0
23	2	3040.	128.	404.	3124.	128.	455.	3521.	4100.	0.	0.	0.	.86	59.	29.6	D	21.8	3.1
24	2	2190.	0.	0.	2720.	0.	0.	3065.	4200.	0.	0.	0.	.73	64.	23.8	C	19.4	5.8
25	3	2400.	76.	2796.	2796.	76.	3141.	3141.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 28.	52.0		17.5	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	399. VEH-HRS	471. PASS-HRS	7584. VEH-HRS	8949. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	399. VEH-HRS	471. PASS-HRS	7584. VEH-HRS	8949. PASS-HRS
TOTAL TRAV DISTANCE =	11051. VEH-MI.	13040. PASS-MI.	225701. VEH-MI.	266327. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		30. MPH.	
AVERAGE DENSITY =	52. VPMPL		50. VPMPL	
TOTAL FUEL =	631. GALLONS		12874. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		904. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1748.	0.	1748.	1748.	0.	1748.	3850.	0.	0.	0.	.45	50.	17.5	B	17.4	2.3
2	2	2070.	412.	0.	2160.	412.	0.	2160.	3845.	5.	0.	0.	.56	50.	21.6	C	15.9	2.3
3	3	2300.	1360.	352.	3520.	1360.	352.	3520.	5890.	210.	0.	0.	.60	55.	21.3	C	14.0	2.4
4	3	1020.	0.	0.	3168.	0.	0.	3168.	6100.	0.	0.	0.	.52	62.	17.0	B	19.9	4.8
5	3	710.	200.	0.	3368.	200.	0.	3368.	6100.	0.	0.	0.	.55	62.	18.1	C	16.1	4.4
6	3	3820.	340.	676.	3708.	340.	676.	3708.	6150.	0.	0.	0.	.60	62.	19.9	C	17.1	4.8
7	2	1220.	0.	0.	3032.	0.	0.	3032.	4400.	0.	0.	0.	.69	62.	24.6	C	18.2	4.4
8	3	4810.	412.	592.	3444.	412.	592.	3444.	6100.	0.	0.	0.	.56	23.	49.8	F	18.0	4.8
9	2	1370.	0.	0.	2852.	0.	0.	3800.	4000.	0.	* 214.	-948.	.95	33.	57.6	F	28.2	2.7
10	2	660.	252.	0.	3104.	252.	0.	4052.	4378.	22.	** 660.	-948.	.93	30.	68.1	F	28.3	2.9
11	3	790.	792.	744.	3896.	792.	744.	4844.	5482.	618.	** 790.	-948.	.88	26.	63.1	F	33.5	3.4
12	2	1460.	0.	0.	3152.	0.	0.	4100.	4100.	0.	** 1460.	-948.	1.00	40.	51.3	F	23.3	2.2
13	3	1400.	420.	0.	3572.	420.	0.	4520.	6028.	72.	** 1400.	-948.	.75	17.	91.3	F	11.8	4.9
14	3	2600.	0.	620.	3572.	0.	620.	4520.	6028.	72.	** 2600.	-948.	.75	17.	91.3	F	16.9	4.9
15	2	2010.	0.	0.	2952.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	392.	704.	3344.	392.	903.	4292.	6100.	0.	0.	0.	.70	46.	31.0	D	17.6	4.4
17	2	1240.	0.	0.	2640.	0.	0.	3389.	4300.	0.	0.	0.	.79	31.	55.4	F	17.7	3.3
18	3	930.	488.	0.	3128.	488.	0.	4362.	6100.	0.	* 553.	-485.	.72	15.	96.3	F	16.2	5.3
19	3	5330.	132.	564.	3260.	132.	694.	4494.	6086.	14.	** 5330.	-485.	.74	16.	94.1	F	16.7	5.1
20	2	2830.	0.	0.	2696.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	392.	688.	3088.	392.	933.	4192.	5963.	137.	0.	0.	.70	61.	22.9	C	21.1	3.8
22	2	2270.	0.	0.	2400.	0.	0.	3259.	4400.	0.	0.	0.	.74	62.	26.4	D	20.7	4.2
23	2	3040.	92.	352.	2492.	92.	473.	3351.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
24	2	2190.	0.	0.	2140.	0.	0.	2877.	4200.	0.	0.	0.	.69	65.	22.1	C	19.2	6.1
25	3	2400.	72.	2212.	2212.	72.	2949.	2949.	6150.	0.	0.	0.	.48	65.	15.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 32.	41.1	18.1	4.1

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 21 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	320. VEH-HRS	378. PASS-HRS	7904. VEH-HRS	9326. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	320. VEH-HRS	378. PASS-HRS	7904. VEH-HRS	9326. PASS-HRS
TOTAL TRAV DISTANCE =	10294. VEH-MI.	12147. PASS-MI.	235995. VEH-MI.	278474. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		30. MPH.	
AVERAGE DENSITY =	41. VPMPL		49. VPMPL	
TOTAL FUEL =	569. GALLONS		13443. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		946. KILOGRAMS	

```
QUEUE SPLIT SECTION 12
QUEUE CLEAR SECTION  14 T2 =0.230
QUEUE CLEAR SECTION  12 FT=  1424
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1580.	0.	1580.	1580.	0.	1580.	3850.	0.	0.	0.	.41	50.	15.8	B	17.4	2.3
2	2	2070.	444.	0.	2024.	444.	0.	2024.	3848.	2.	0.	0.	.53	50.	20.2	C	15.9	2.3
3	3	2300.	1316.	308.	3340.	1316.	308.	3340.	5919.	181.	0.	0.	.56	55.	20.2	C	14.0	2.4
4	3	1020.	0.	0.	3032.	0.	0.	3032.	6100.	0.	0.	0.	.50	62.	16.3	B	19.9	4.8
5	3	710.	128.	0.	3160.	128.	0.	3160.	6100.	0.	0.	0.	.52	62.	17.0	B	16.1	4.4
6	3	3820.	396.	620.	3556.	396.	620.	3556.	6150.	0.	0.	0.	.58	62.	19.1	C	17.1	4.8
7	2	1220.	0.	0.	2936.	0.	0.	2936.	4400.	0.	0.	0.	.67	62.	23.7	C	18.2	4.4
8	3	4810.	432.	684.	3368.	432.	684.	3368.	6100.	0.	0.	0.	.55	62.	18.1	C	20.6	4.4
9	2	1370.	0.	0.	2684.	0.	0.	2684.	4000.	0.	0.	0.	.67	61.	22.2	C	23.5	4.4
10	2	660.	248.	0.	2932.	248.	0.	2932.	4382.	18.	0.	0.	.67	33.	44.1	E	22.4	4.6
11	3	790.	688.	612.	3620.	688.	612.	3620.	5582.	518.	0.	0.	.65	18.	68.7	F	23.1	5.2
12	2	1460.	0.	0.	3008.	0.	0.	3248.	4100.	0.	0.	-240.	.79	19.	86.0	F	18.0	4.4
13	3	1400.	344.	0.	3352.	344.	0.	3592.	6040.	60.	0.	0.	.59	39.	30.5	D	13.1	4.5
14	3	2600.	0.	568.	3352.	0.	609.	4350.	6040.	60.	0.	-758.	.72	20.	71.9	F	17.5	5.0
15	2	2010.	0.	0.	2784.	0.	0.	3742.	3900.	0.	0.	0.	.96	55.	34.3	D	16.5	2.0
16	3	6120.	440.	692.	3224.	440.	897.	4182.	6100.	0.	0.	0.	.69	62.	22.5	C	18.2	4.4
17	2	1240.	0.	0.	2532.	0.	0.	3285.	4300.	0.	0.	0.	.76	62.	26.7	D	18.4	4.1
18	3	930.	320.	0.	2852.	320.	0.	3605.	6100.	0.	0.	0.	.59	55.	21.9	C	20.3	4.4
19	3	5330.	108.	580.	2960.	108.	727.	4527.	6095.	5. *	1035.	-815.	.74	21.	72.0	F	17.8	4.8
20	2	2830.	0.	0.	2380.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	368.	604.	2748.	368.	917.	4168.	6028.	72.	0.	0.	.69	61.	22.8	C	21.1	3.8
22	2	2270.	0.	0.	2144.	0.	0.	3251.	4400.	0.	0.	0.	.74	62.	26.3	D	20.7	4.2
23	2	3040.	112.	376.	2256.	112.	560.	3363.	4100.	0.	0.	0.	.82	61.	27.8	D	21.3	3.5
24	2	2190.	0.	0.	1880.	0.	0.	2803.	4200.	0.	0.	0.	.67	65.	21.6	C	19.2	6.1
25	3	2400.	44.	1924.	1924.	44.	2847.	2847.	6150.	0.	0.	0.	.46	65.	14.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 42.	31.2		18.4	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	228. VEH-HRS	269. PASS-HRS	8132. VEH-HRS	9595. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	228. VEH-HRS	269. PASS-HRS	8132. VEH-HRS	9595. PASS-HRS
TOTAL TRAV DISTANCE =	9521. VEH-MI.	11235. PASS-MI.	245516. VEH-MI.	289709. PASS-MI.
AVERAGE SYSTEM SPEED =	42. MPH.		30. MPH.	
AVERAGE DENSITY =	31. VPMPL		48. VPMPL	
TOTAL FUEL =	517. GALLONS		13960. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		985. KILOGRAMS	

QUEUE CLEAR SECTION 19 FT= 245

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1496.	0.	1496.	1496.	0.	1496.	3850.	0.	0.	0.	.39	50.	15.0	B	17.4	2.3
2	2	2070.	444.	0.	1940.	444.	0.	1940.	3850.	0.	0.	0.	.50	50.	19.4	C	15.9	2.3
3	3	2300.	1320.	316.	3260.	1320.	316.	3260.	5920.	180.	0.	0.	.55	55.	19.8	C	14.0	2.4
4	3	1020.	0.	0.	2944.	0.	0.	2944.	6100.	0.	0.	0.	.48	62.	15.8	B	19.9	4.8
5	3	710.	140.	0.	3084.	140.	0.	3084.	6100.	0.	0.	0.	.51	62.	16.6	B	16.1	4.4
6	3	3820.	280.	596.	3364.	280.	596.	3364.	6150.	0.	0.	0.	.55	62.	18.1	C	17.1	4.8
7	2	1220.	0.	0.	2768.	0.	0.	2768.	4400.	0.	0.	0.	.63	62.	22.3	C	18.2	4.4
8	3	4810.	396.	784.	3164.	396.	784.	3164.	6100.	0.	0.	0.	.52	62.	17.0	B	20.6	4.4
9	2	1370.	0.	0.	2380.	0.	0.	2380.	4000.	0.	0.	0.	.59	62.	19.2	C	23.6	4.4
10	2	660.	272.	0.	2652.	272.	0.	2652.	4375.	25.	0.	0.	.61	62.	21.4	C	23.6	4.4
11	3	790.	568.	664.	3220.	568.	664.	3220.	5617.	483.	0.	0.	.57	62.	17.3	B	30.0	4.4
12	2	1460.	0.	0.	2556.	0.	0.	2556.	4100.	0.	0.	0.	.62	62.	20.6	C	20.6	4.4
13	3	1400.	320.	0.	2876.	320.	0.	2876.	6051.	49.	0.	0.	.48	62.	15.5	B	13.6	4.4
14	3	2600.	0.	476.	2876.	0.	476.	2876.	6051.	49.	0.	0.	.48	62.	15.5	B	20.6	4.4
15	2	2010.	0.	0.	2400.	0.	0.	2400.	3900.	0.	0.	0.	.62	62.	19.4	C	14.7	4.4
16	3	6120.	344.	608.	2744.	344.	608.	2744.	6100.	0.	0.	0.	.45	62.	14.8	B	18.2	4.4
17	2	1240.	0.	0.	2136.	0.	0.	2136.	4300.	0.	0.	0.	.50	62.	17.2	B	18.2	4.4
18	3	930.	200.	0.	2336.	200.	0.	2336.	6100.	0.	0.	0.	.38	62.	12.6	B	20.6	4.4
19	3	5330.	76.	480.	2412.	76.	480.	2649.	6100.	0.	0.	-237.	.43	28.	31.3	D	17.7	4.9
20	2	2830.	0.	0.	1932.	0.	0.	2169.	3800.	0.	0.	0.	.57	61.	17.8	B	21.1	3.8
21	3	1660.	284.	460.	2216.	284.	509.	2453.	6100.	0.	0.	0.	.40	61.	13.4	B	21.1	3.8
22	2	2270.	0.	0.	1756.	0.	0.	1944.	4400.	0.	0.	0.	.44	62.	15.7	B	20.6	4.4
23	2	3040.	104.	336.	1860.	104.	370.	2048.	4100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
24	2	2190.	0.	0.	1524.	0.	0.	1678.	4200.	0.	0.	0.	.40	65.	12.9	B	19.2	6.1
25	3	2400.	36.	1560.	1560.	36.	1714.	1714.	6150.	0.	0.	0.	.28	65.	8.8	A	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 0.63	LOWEST LOS = D	AVG = 55.	17.6		18.4	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	151. PASS-HRS	8260. VEH-HRS	9747. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	128. VEH-HRS	151. PASS-HRS	8260. VEH-HRS	9747. PASS-HRS
TOTAL TRAV DISTANCE =	7029. VEH-MI.	8294. PASS-MI.	252545. VEH-MI.	298003. PASS-MI.
AVERAGE SYSTEM SPEED =	55. MPH.		31. MPH.	
AVERAGE DENSITY =	18. VPMPL		47. VPMPL	
TOTAL FUEL =	383. GALLONS		14343. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		1015. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
1	202.	238.	0.	0.	202.	238.	11549.	13628.	57.2	598.	2.	30.	10.	14:00
2	230.	271.	0.	0.	230.	271.	11995.	14154.	52.2	625.	2.	30.	10.	14:15
3	247.	292.	0.	0.	247.	292.	11588.	13674.	46.9	612.	2.	31.	9.	14:30
4	291.	344.	0.	0.	291.	344.	12218.	14417.	41.9	645.	2.	31.	10.	14:45
5	317.	374.	0.	0.	317.	374.	11246.	13271.	35.5	616.	2.	33.	9.	15:00
6	342.	403.	0.	0.	342.	403.	11094.	13091.	32.5	621.	2.	33.	9.	15:15
7	355.	419.	0.	0.	355.	419.	10946.	12917.	30.8	619.	3.	33.	9.	15:30
8	378.	446.	0.	0.	378.	446.	11608.	13697.	30.7	659.	3.	34.	9.	15:45
9	386.	455.	0.	0.	386.	455.	11191.	13206.	29.0	640.	3.	34.	9.	16:00
10	399.	470.	0.	0.	399.	470.	11346.	13389.	28.5	652.	3.	34.	9.	16:15
11	415.	489.	0.	0.	415.	489.	10868.	12825.	26.2	636.	3.	34.	8.	16:30
12	453.	535.	0.	0.	453.	535.	10707.	12635.	23.6	653.	3.	35.	8.	16:45
13	456.	539.	0.	0.	456.	539.	10583.	12487.	23.2	647.	3.	35.	8.	17:00
14	464.	547.	0.	0.	464.	547.	10943.	12913.	23.6	666.	3.	36.	8.	17:15
15	478.	564.	0.	0.	478.	564.	10648.	12565.	22.3	659.	3.	36.	8.	17:30
16	463.	547.	0.	0.	463.	547.	11504.	13575.	24.8	685.	3.	36.	9.	17:45
17	445.	525.	0.	0.	445.	525.	11556.	13636.	26.0	676.	3.	35.	9.	18:00
18	442.	521.	0.	0.	442.	521.	11460.	13523.	26.0	669.	3.	35.	9.	18:15
19	423.	499.	0.	0.	423.	499.	11598.	13685.	27.4	665.	3.	35.	9.	18:30
20	399.	471.	0.	0.	399.	471.	11051.	13040.	27.7	631.	3.	34.	8.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	320.	378.	0.	0.	320.	378.	10294.	12147.	32.1	569.	2.	32.	8.	19:00
22	228.	269.	0.	0.	228.	269.	9521.	11235.	41.8	517.	2.	30.	8.	19:15
23	128.	151.	0.	0.	128.	151.	7029.	8294.	54.8	383.	1.	22.	6.	19:30
TOTAL	8260.	9747.	0.	0.	8260.	9747.	252545.	298003.	30.6	14343.	59.	759.	198.	

Horizon Year (2045) No Build
Northbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2148.	24.	2148.	2148.	24.	2148.	4400.	0.	0.	0.	.49	62.	17.3	B	13.6	4.8
2	2	1970.	0.	0.	2124.	0.	0.	2124.	4100.	0.	0.	0.	.52	62.	17.1	B	13.6	4.8
3	2	1830.	172.	16.	2296.	172.	16.	2296.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
4	2	2010.	0.	0.	2280.	0.	0.	2280.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
5	3	2445.	328.	88.	2608.	328.	88.	2608.	5600.	0.	0.	0.	.47	62.	14.0	B	13.6	4.8
6	2	1890.	0.	0.	2520.	0.	0.	2520.	4100.	0.	0.	0.	.61	62.	20.3	C	13.6	4.8
7	3	5320.	292.	128.	2812.	292.	128.	2812.	5600.	0.	0.	0.	.50	62.	15.1	B	13.6	4.8
8	2	880.	0.	0.	2684.	0.	0.	2684.	3900.	0.	0.	0.	.69	62.	21.6	C	14.9	4.8
9	2	1125.	84.	0.	2768.	84.	0.	2768.	3900.	0.	0.	0.	.71	62.	22.3	C	19.9	4.8
10	2	6320.	244.	80.	3012.	244.	80.	3012.	4100.	0.	0.	0.	.73	62.	24.3	C	19.9	4.8
11	2	2050.	0.	0.	2932.	0.	0.	2932.	4100.	0.	0.	0.	.72	62.	23.6	C	19.9	4.8
12	2	2560.	208.	0.	3140.	208.	0.	3140.	4400.	0.	0.	0.	.71	62.	25.4	C	17.2	4.7
13	2	1400.	0.	160.	3140.	0.	160.	3140.	4400.	0.	0.	0.	.71	62.	25.4	C	32.3	4.7
14	2	1320.	0.	0.	2980.	0.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	14.9	4.8
15	3	540.	368.	536.	3348.	368.	536.	3348.	5292.	308.	0.	0.	.63	62.	18.0	B	12.6	4.8
16	2	1230.	0.	0.	2812.	0.	0.	2812.	4400.	0.	0.	0.	.64	62.	22.7	C	19.9	4.8
17	2	890.	396.	0.	3208.	396.	0.	3208.	4400.	0.	0.	0.	.73	62.	25.9	C	20.0	4.7
18	2	4840.	72.	416.	3280.	72.	416.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	17.3	4.6
19	2	530.	0.	0.	2864.	0.	0.	2864.	3800.	0.	0.	0.	.75	62.	23.1	C	19.9	4.8
20	2	1040.	504.	0.	3368.	504.	0.	3368.	4393.	7.	0.	0.	.77	62.	27.4	D	20.2	4.5
21	3	2810.	284.	272.	3652.	284.	272.	3652.	5576.	24.	0.	0.	.65	62.	19.6	C	24.1	4.8
22	2	1850.	0.	0.	3380.	0.	0.	3380.	4400.	0.	0.	0.	.77	62.	27.5	D	17.4	4.5
23	3	2390.	204.	216.	3584.	204.	216.	3584.	5588.	12.	0.	0.	.64	62.	19.3	C	24.1	4.8
24	3	960.	0.	1976.	3368.	0.	1500.	3368.	5600.	0.	0.	0.	.60	62.	18.1	C	17.2	4.8
25	2	1400.	0.	1392.	1392.	0.	1392.	1392.	3600.	0.	0.	0.	.39	62.	11.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.77		LOWEST LOS = D	AVG = 62.	20.4		16.6	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	132. VEH-HRS	150. PASS-HRS	132. VEH-HRS	150. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	15. VEH-HRS	17. PASS-HRS	15. VEH-HRS	17. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	147. VEH-HRS	166. PASS-HRS	147. VEH-HRS	166. PASS-HRS
TOTAL TRAV DISTANCE =	8189. VEH-MI.	9270. PASS-MI.	8189. VEH-MI.	9270. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		20. VPMPL	
TOTAL FUEL =	499. GALLONS		499. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		40. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	119.	14.87	5.63	0.09	0.53	0.09	0.71

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2736.	20.	2736.	2736.	20.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	13.6	4.8
2	2	1970.	0.	0.	2716.	0.	0.	2716.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
3	2	1830.	200.	28.	2916.	200.	28.	2916.	4100.	0.	0.	0.	.71	62.	23.5	C	13.6	4.8
4	2	2010.	0.	0.	2888.	0.	0.	2888.	4100.	0.	0.	0.	.70	62.	23.3	C	13.6	4.8
5	3	2445.	440.	112.	3328.	440.	112.	3328.	5600.	0.	0.	0.	.59	62.	17.9	B	13.6	4.8
6	2	1890.	0.	0.	3216.	0.	0.	3216.	4100.	0.	0.	0.	.78	61.	26.2	D	13.8	4.4
7	3	5320.	300.	176.	3516.	300.	176.	3516.	5600.	0.	0.	0.	.63	62.	18.9	C	13.6	4.8
8	2	880.	0.	0.	3340.	0.	0.	3340.	3900.	0.	0.	0.	.86	60.	28.0	D	15.7	3.5
9	2	1125.	112.	0.	3452.	112.	0.	3452.	3900.	0.	0.	0.	.89	58.	29.5	D	21.3	3.2
10	2	6320.	288.	100.	3740.	288.	100.	3740.	4100.	0.	0.	0.	.91	57.	32.7	D	21.7	2.9
11	2	2050.	0.	0.	3640.	0.	0.	3640.	4100.	0.	0.	0.	.89	58.	31.2	D	21.4	3.2
12	2	2560.	236.	0.	3876.	236.	0.	3876.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
13	2	1400.	0.	168.	3876.	0.	168.	3876.	4400.	0.	0.	0.	.88	59.	33.0	D	35.1	3.3
14	2	1320.	0.	0.	3708.	0.	0.	3708.	4400.	0.	0.	0.	.84	60.	30.9	D	15.6	3.6
15	3	540.	364.	728.	4072.	364.	728.	4072.	5300.	300.	0.	0.	.77	62.	21.9	C	12.6	4.8
16	2	1230.	0.	0.	3344.	0.	0.	3344.	4400.	0.	0.	0.	.76	62.	27.1	D	20.1	4.5
17	2	890.	428.	0.	3772.	428.	0.	3772.	4400.	0.	0.	0.	.86	60.	31.7	D	21.1	3.5
18	2	4840.	84.	540.	3856.	84.	540.	3856.	4400.	0.	0.	0.	.88	59.	32.8	D	18.3	3.3
19	2	530.	0.	0.	3316.	0.	0.	3316.	3800.	0.	0.	0.	.87	59.	28.1	D	21.2	3.4
20	2	1040.	488.	0.	3804.	488.	0.	3804.	4390.	10.	0.	0.	.87	59.	32.1	D	21.1	3.4
21	3	2810.	336.	364.	4140.	336.	364.	4140.	5568.	32.	0.	0.	.74	62.	22.3	C	24.1	4.8
22	2	1850.	0.	0.	3776.	0.	0.	3776.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	204.	316.	3980.	204.	316.	3980.	5568.	32.	0.	0.	.71	62.	21.4	C	24.1	4.8
24	3	960.	0.	1948.	3664.	0.	1500.	3664.	5594.	6.	0.	0.	.65	62.	19.7	C	17.2	4.8
25	2	1400.	0.	1716.	1716.	0.	1716.	1716.	3600.	0.	0.	0.	.48	62.	13.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES							MAX(V/C) = 0.91	LOWEST LOS = D		AVG = 60.		25.6		16.9	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	165. VEH-HRS	187. PASS-HRS	298. VEH-HRS	337. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	44. VEH-HRS	50. PASS-HRS	59. VEH-HRS	66. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	209. VEH-HRS	237. PASS-HRS	356. VEH-HRS	403. PASS-HRS
TOTAL TRAV DISTANCE =	9989. VEH-MI.	11308. PASS-MI.	18178. VEH-MI.	20577. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		61. MPH.	
AVERAGE DENSITY =	26. VPMPL		23. VPMPL	
TOTAL FUEL =	607. GALLONS		1106. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		83. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	231.	43.75	16.57	0.25	1.57	0.27	2.09

```
QUEUE COLLISION IN SECTION   9 T2 =0.076
QUEUE COLLISION IN SECTION   8 T2 =0.055
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3612.	28.	3612.	3612.	28.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	14.0	3.9
2	2	1970.	0.	0.	3584.	0.	0.	3584.	4100.	0.	0.	0.	.87	59.	30.4	D	14.3	3.4
3	2	1830.	272.	132.	3856.	272.	132.	3856.	4100.	0.	0.	0.	.94	56.	34.6	D	15.0	2.6
4	2	2010.	0.	0.	3724.	0.	0.	3724.	4100.	0.	0.	0.	.91	57.	32.4	D	14.6	3.0
5	3	2445.	484.	136.	4208.	484.	136.	4208.	5600.	0.	0.	0.	.75	62.	22.6	C	13.6	4.8
6	2	1890.	0.	0.	4072.	0.	0.	4072.	4100.	0.	0.	0.	.99	52.	39.1	E	15.6	2.3
7	3	5320.	328.	252.	4400.	328.	252.	3916.	5600.	0.	* 2762.	484.	.70	36.	36.2	F	12.9	5.0
8	2	880.	0.	0.	4148.	0.	0.	3664.	3900.	0.	** 880.	236.	.94	34.	54.5	F	15.1	3.0
9	2	1125.	156.	0.	4304.	156.	0.	3820.	3900.	0.	** 1125.	80.	.98	38.	49.7	F	22.0	2.7
10	2	6320.	280.	144.	4584.	280.	129.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	4440.	0.	0.	3971.	4100.	0.	0.	0.	.97	54.	36.8	E	22.5	2.4
12	2	2560.	300.	0.	4740.	300.	0.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	19.6	2.4
13	2	1400.	0.	236.	4740.	0.	213.	4271.	4400.	0.	0.	0.	.97	54.	39.7	E	38.9	2.4
14	2	1320.	0.	0.	4504.	0.	0.	4059.	4400.	0.	0.	0.	.92	57.	35.8	E	16.3	2.8
15	3	540.	428.	968.	4932.	428.	881.	4487.	5256.	344.	0.	0.	.85	62.	24.1	C	12.6	4.8
16	2	1230.	0.	0.	3964.	0.	0.	3606.	4400.	0.	0.	0.	.82	61.	29.8	D	20.6	4.0
17	2	890.	428.	0.	4392.	428.	0.	4034.	4400.	0.	0.	0.	.92	57.	35.4	E	21.7	2.9
18	2	4840.	68.	676.	4460.	68.	622.	4102.	4400.	0.	0.	0.	.93	56.	36.5	E	19.0	2.7
19	2	530.	0.	0.	3784.	0.	0.	3480.	3800.	0.	0.	0.	.92	57.	30.5	D	21.7	2.9
20	2	1040.	492.	0.	4276.	492.	0.	3972.	4385.	15.	0.	0.	.91	58.	34.5	D	21.6	3.0
21	3	2810.	392.	560.	4668.	392.	524.	4364.	5556.	44.	0.	0.	.79	62.	23.5	C	24.1	4.8
22	2	1850.	0.	0.	4108.	0.	0.	3840.	4400.	0.	0.	0.	.87	59.	32.6	D	18.2	3.4
23	3	2390.	180.	312.	4288.	180.	293.	4020.	5561.	39.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	2148.	3976.	0.	1500.	3727.	5592.	8.	0.	0.	.67	62.	20.0	C	17.2	4.8
25	2	1400.	0.	1828.	1828.	0.	1714.	1714.	3600.	0.	0.	0.	.48	62.	13.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 53.	32.9		17.1	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	216. VEH-HRS	245. PASS-HRS	514. VEH-HRS	582. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	74. VEH-HRS	84. PASS-HRS	132. VEH-HRS	150. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	290. VEH-HRS	328. PASS-HRS	646. VEH-HRS	732. PASS-HRS
TOTAL TRAV DISTANCE =	11559. VEH-MI.	13084. PASS-MI.	29736. VEH-MI.	33662. PASS-MI.
AVERAGE SYSTEM SPEED =	40. MPH.		58. MPH.	
AVERAGE DENSITY =	33. VPMPL		26. VPMPL	
TOTAL FUEL =	705. GALLONS		1811. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		127. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	359.	73.80	27.95	0.43	2.64	0.46	3.53

QUEUE COLLISION IN SECTION 6 T2 =0.245

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3728.	56.	3728.	3728.	56.	3728.	4400.	0.	0.	0.	.85	60.	31.2	D	14.2	3.6
2	2	1970.	0.	0.	3672.	0.	0.	3672.	4100.	0.	0.	0.	.90	58.	31.6	D	14.5	3.1
3	2	1830.	364.	284.	4036.	364.	284.	4036.	4100.	0.	0.	0.	.98	53.	38.2	E	15.5	2.4
4	2	2010.	0.	0.	3752.	0.	0.	3752.	4100.	0.	0.	0.	.92	57.	32.9	D	14.7	2.9
5	3	2445.	868.	184.	4620.	868.	184.	3789.	5533.	67.	* 2213.	831.	.68	39.	32.1	F	13.0	5.0
6	2	1890.	0.	0.	4436.	0.	0.	3605.	4100.	0.	** 1890.	495.	.88	47.	38.6	F	15.4	2.5
7	3	5320.	340.	332.	4776.	340.	309.	3945.	5600.	0.	** 5320.	495.	.70	17.	76.9	F	11.4	5.6
8	2	880.	0.	0.	4444.	0.	0.	3636.	3900.	0.	** 880.	264.	.93	31.	59.5	F	14.7	3.2
9	2	1125.	148.	0.	4592.	148.	0.	3784.	3900.	0.	** 1125.	116.	.97	35.	53.5	F	21.7	2.8
10	2	6320.	316.	208.	4908.	316.	174.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	4700.	0.	0.	3926.	4100.	0.	0.	0.	.96	55.	35.9	E	22.4	2.4
12	2	2560.	344.	0.	5044.	344.	0.	4270.	4400.	0.	0.	0.	.97	54.	39.7	E	19.5	2.4
13	2	1400.	0.	404.	5044.	0.	342.	4270.	4400.	0.	0.	0.	.97	54.	39.7	E	38.9	2.4
14	2	1320.	0.	0.	4640.	0.	0.	3928.	4400.	0.	0.	0.	.89	58.	33.8	D	16.0	3.2
15	3	540.	484.	1168.	5124.	484.	1006.	4412.	5228.	372.	0.	0.	.84	62.	23.7	C	12.6	4.8
16	2	1230.	0.	0.	3956.	0.	0.	3406.	4400.	0.	0.	0.	.77	61.	27.7	D	20.2	4.4
17	2	890.	424.	0.	4380.	424.	0.	3830.	4400.	0.	0.	0.	.87	59.	32.4	D	21.2	3.4
18	2	4840.	76.	760.	4456.	76.	665.	3906.	4400.	0.	0.	0.	.89	58.	33.5	D	18.4	3.2
19	2	530.	0.	0.	3696.	0.	0.	3241.	3800.	0.	0.	0.	.85	60.	27.2	D	21.0	3.5
20	2	1040.	536.	0.	4232.	536.	0.	3777.	4380.	20.	0.	0.	.86	59.	31.8	D	21.1	3.5
21	3	2810.	408.	732.	4640.	408.	660.	4185.	5539.	61.	0.	0.	.76	62.	22.5	C	24.1	4.8
22	2	1850.	0.	0.	3908.	0.	0.	3525.	4400.	0.	0.	0.	.80	61.	28.9	D	17.6	4.2
23	3	2390.	232.	192.	4140.	232.	175.	3757.	5563.	37.	0.	0.	.68	62.	20.2	C	24.1	4.8
24	3	960.	0.	2312.	3948.	0.	1500.	3582.	5594.	6.	0.	0.	.64	62.	19.3	C	17.2	4.8
25	2	1400.	0.	1636.	1636.	0.	1485.	1485.	3600.	0.	0.	0.	.41	62.	12.0	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 46.	36.6		16.7	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	250. VEH-HRS	284. PASS-HRS	764. VEH-HRS	865. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	109. VEH-HRS	123. PASS-HRS	241. VEH-HRS	273. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	359. VEH-HRS	406. PASS-HRS	1005. VEH-HRS	1138. PASS-HRS
TOTAL TRAV DISTANCE =	11417. VEH-MI.	12924. PASS-MI.	41153. VEH-MI.	46585. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		54. MPH.	
AVERAGE DENSITY =	37. VPMPL		29. VPMPL	
TOTAL FUEL =	724. GALLONS		2535. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		173. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	509.	108.52	41.10	0.63	3.88	0.68	5.19

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1784.	76.	1784.	1784.	76.	1784.	4400.	0.	0.	0.	.41	62.	14.4	B	13.6	4.8
2	2	1970.	0.	0.	1708.	0.	0.	1708.	4100.	0.	0.	0.	.42	62.	13.8	B	13.6	4.8
3	2	1830.	628.	388.	2336.	628.	388.	2336.	3958.	142.	0.	0.	.59	62.	18.8	C	13.6	4.8
4	2	2010.	0.	0.	1948.	0.	0.	1948.	4100.	0.	0.	0.	.48	62.	15.7	B	13.6	4.8
5	3	2445.	1716.	272.	3664.	1500.	256.	3750.	5463.	137.	* 410.	-302.	.69	21.	60.3	F	11.8	5.5
6	2	1890.	0.	0.	3392.	0.	0.	3494.	4100.	0.	** 1890.	-302.	.85	23.	76.0	F	12.5	4.1
7	3	5320.	420.	420.	3812.	420.	398.	3914.	5600.	0.	** 5320.	-302.	.70	14.	92.6	F	10.9	5.9
8	2	880.	0.	0.	3392.	0.	0.	3516.	3900.	0.	** 880.	-302.	.90	27.	64.4	F	14.1	3.5
9	2	1125.	148.	0.	3540.	148.	0.	3664.	3900.	0.	** 1125.	-302.	.94	31.	58.4	F	20.9	3.1
10	2	6320.	436.	256.	3976.	436.	264.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	3720.	0.	0.	3836.	4100.	0.	0.	0.	.94	56.	34.3	D	22.0	2.6
12	2	2560.	372.	0.	4092.	372.	0.	4208.	4400.	0.	0.	0.	.96	55.	38.5	E	19.4	2.4
13	2	1400.	0.	396.	4092.	0.	407.	4208.	4400.	0.	0.	0.	.96	55.	38.5	E	38.2	2.4
14	2	1320.	0.	0.	3696.	0.	0.	3801.	4400.	0.	0.	0.	.86	59.	32.1	D	15.7	3.4
15	3	540.	660.	1120.	4356.	660.	1147.	4461.	5108.	492.	0.	0.	.87	62.	24.0	C	12.6	4.8
16	2	1230.	0.	0.	3236.	0.	0.	3314.	4400.	0.	0.	0.	.75	62.	26.9	D	20.1	4.6
17	2	890.	496.	0.	3732.	496.	0.	3810.	4400.	0.	0.	0.	.87	59.	32.2	D	21.1	3.4
18	2	4840.	112.	724.	3844.	112.	739.	3922.	4400.	0.	0.	0.	.89	58.	33.7	D	18.4	3.2
19	2	530.	0.	0.	3120.	0.	0.	3184.	3800.	0.	0.	0.	.84	60.	26.5	D	20.9	3.7
20	2	1040.	648.	0.	3768.	648.	0.	3832.	4380.	20.	0.	0.	.87	59.	32.5	D	21.2	3.3
21	3	2810.	484.	708.	4252.	484.	718.	4316.	5533.	67.	0.	0.	.78	62.	23.2	C	24.1	4.8
22	2	1850.	0.	0.	3544.	0.	0.	3597.	4400.	0.	0.	0.	.82	61.	29.7	D	17.7	4.0
23	3	2390.	304.	168.	3848.	304.	170.	3901.	5542.	58.	0.	0.	.70	62.	21.0	C	24.1	4.8
24	3	960.	0.	1852.	3680.	0.	1500.	3731.	5589.	11.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	1828.	1828.	0.	1853.	1853.	3600.	0.	0.	0.	.51	62.	14.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 39.	35.2		16.7	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	245. VEH-HRS	277. PASS-HRS	1009. VEH-HRS	1142. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	7. VEH-HRS	8. PASS-HRS
OFF-RAMP DELAY =	139. VEH-HRS	157. PASS-HRS	380. VEH-HRS	430. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	390. VEH-HRS	442. PASS-HRS	1396. VEH-HRS	1580. PASS-HRS
TOTAL TRAV DISTANCE =	9579. VEH-MI.	10843. PASS-MI.	50732. VEH-MI.	57429. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		50. MPH.	
AVERAGE DENSITY =	35. VPMPL		30. VPMPL	
TOTAL FUEL =	629. GALLONS		3164. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		218. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	54.	6.75	2.56	0.04	0.24	0.04	0.32
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	54.	6.75	2.56	0.04	0.24	0.04	0.32
OFF-RAMP	11	OUTPUT POINT	603.	138.98	52.64	0.81	4.97	0.87	6.65

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1756.	100.	1756.	1756.	100.	1756.	4400.	0.	0.	0.	.40	62.	14.2	B	13.6	4.8
2	2	1970.	0.	0.	1656.	0.	0.	1656.	4100.	0.	0.	0.	.40	62.	13.4	B	13.6	4.8
3	2	1830.	728.	340.	2384.	728.	340.	2384.	3958.	142.	0.	0.	.60	62.	19.2	C	13.6	4.8
4	2	2010.	0.	0.	2044.	0.	0.	2044.	4100.	0.	0.	0.	.50	62.	16.5	B	13.6	4.8
5	3	2445.	1544.	364.	3588.	1500.	355.	3544.	5392.	208.	0.	0.	.66	50.	23.7	C	13.3	4.9
6	2	1890.	0.	0.	3224.	0.	0.	3281.	4100.	0.	* 1635.	-91.	.80	20.	83.8	F	11.8	4.7
7	3	5320.	628.	568.	3852.	628.	557.	3909.	5600.	0.	** 5320.	-91.	.70	14.	92.7	F	10.9	5.9
8	2	880.	0.	0.	3284.	0.	0.	3352.	3900.	0.	** 880.	-91.	.86	24.	71.1	F	13.5	4.0
9	2	1125.	208.	0.	3492.	208.	0.	3560.	3900.	0.	** 1125.	-91.	.91	28.	62.6	F	20.2	3.4
10	2	6320.	540.	336.	4032.	540.	339.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	3696.	0.	0.	3761.	4100.	0.	0.	0.	.92	57.	33.0	D	21.8	2.9
12	2	2560.	504.	0.	4200.	504.	0.	4265.	4400.	0.	0.	0.	.97	54.	39.6	E	19.5	2.4
13	2	1400.	0.	276.	4200.	0.	285.	4265.	4400.	0.	0.	0.	.97	54.	39.6	E	38.8	2.4
14	2	1320.	0.	0.	3924.	0.	0.	3981.	4400.	0.	0.	0.	.90	58.	34.5	D	16.1	3.0
15	3	540.	872.	1164.	4796.	872.	1180.	4853.	4940.	660.	0.	0.	.98	53.	30.6	D	14.3	2.4
16	2	1230.	0.	0.	3632.	0.	0.	3673.	4400.	0.	0.	0.	.83	60.	30.5	D	20.8	3.7
17	2	890.	584.	0.	4216.	584.	0.	4240.	4400.	0.	* 494.	17.	.96	47.	45.4	F	22.2	2.5
18	2	4840.	160.	748.	4376.	160.	754.	4400.	4400.	0.	0.	0.	1.00	52.	42.7	E	20.0	2.3
19	2	530.	0.	0.	3628.	0.	0.	3646.	3800.	0.	0.	0.	.96	55.	33.4	D	22.4	2.4
20	2	1040.	688.	0.	4316.	688.	0.	4334.	4372.	28.	0.	0.	.99	52.	41.5	E	22.9	2.3
21	3	2810.	752.	892.	5068.	752.	895.	5086.	5233.	367.	0.	0.	.97	54.	31.6	D	29.1	2.4
22	2	1850.	0.	0.	4176.	0.	0.	4192.	4400.	0.	0.	0.	.95	55.	38.1	E	19.3	2.4
23	3	2390.	300.	196.	4476.	300.	196.	4492.	5524.	76.	0.	0.	.81	62.	24.1	C	24.1	4.8
24	3	960.	0.	1676.	4280.	0.	1500.	4295.	5574.	26.	0.	0.	.77	62.	23.1	C	17.2	4.8
25	2	1400.	0.	2604.	2604.	0.	2606.	2606.	3600.	0.	0.	0.	.72	62.	21.0	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 40. 36.3 17.3 3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	250. VEH-HRS	283. PASS-HRS	1259. VEH-HRS	1425. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	15. VEH-HRS	17. PASS-HRS	22. VEH-HRS	24. PASS-HRS
OFF-RAMP DELAY =	157. VEH-HRS	177. PASS-HRS	537. VEH-HRS	607. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	422. VEH-HRS	477. PASS-HRS	1817. VEH-HRS	2057. PASS-HRS
TOTAL TRAV DISTANCE =	10037. VEH-MI.	11362. PASS-MI.	60770. VEH-MI.	68791. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		48. MPH.	
AVERAGE DENSITY =	36. VPMPL		31. VPMPL	
TOTAL FUEL =	645. GALLONS		3809. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		262. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	65.	14.88	5.63	0.09	0.53	0.09	0.71
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	65.	14.88	5.63	0.09	0.53	0.09	0.71
OFF-RAMP	11	OUTPUT POINT	650.	156.69	59.35	0.91	5.61	0.98	7.50

```
QUEUE COLLISION IN SECTION  20 T2 =0.044
QUEUE COLLISION IN SECTION  18 T2 =0.245
QUEUE CLEAR SECTION  17 T2 =0.232
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2808.	128.	2808.	2808.	128.	2808.	4400.	0.	0.	0.	.64	62.	22.6	C	13.6	4.8
2	2	1970.	0.	0.	2680.	0.	0.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
3	2	1830.	448.	144.	3128.	448.	144.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	13.7	4.5
4	2	2010.	0.	0.	2984.	0.	0.	2984.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
5	3	2445.	632.	276.	3616.	892.	301.	3611.	5475.	125.	* 1425.	265.	.66	31.	39.0	F	12.6	5.2
6	2	1890.	0.	0.	3340.	0.	0.	3309.	4100.	0.	** 1890.	265.	.81	20.	83.2	F	11.9	4.6
7	3	5320.	784.	676.	4124.	784.	709.	4093.	5600.	0.	** 5320.	265.	.73	16.	87.7	F	11.3	5.6
8	2	880.	0.	0.	3448.	0.	0.	3384.	3900.	0.	** 880.	265.	.87	24.	69.8	F	13.6	3.9
9	2	1125.	204.	0.	3652.	204.	0.	3588.	3900.	0.	** 1125.	265.	.92	29.	61.5	F	20.4	3.3
10	2	6320.	512.	400.	4164.	512.	391.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.0	2.3
11	2	2050.	0.	0.	3764.	0.	0.	3389.	4100.	0.	* 817.	320.	.83	54.	31.1	F	21.4	3.1
12	2	2560.	632.	0.	4396.	632.	0.	4021.	4400.	0.	** 2560.	320.	.91	41.	49.4	F	18.4	2.7
13	2	1400.	0.	216.	4396.	0.	217.	4021.	4400.	0.	** 1400.	320.	.91	35.	58.2	F	39.3	3.0
14	2	1320.	0.	0.	4180.	0.	0.	3804.	4400.	0.	** 1320.	320.	.86	26.	72.9	F	13.9	3.8
15	3	540.	1028.	1324.	5208.	1028.	1227.	4832.	4832.	768.	0.	0.	1.00	52.	31.2	E	14.5	2.3
16	2	1230.	0.	0.	3884.	0.	0.	3605.	4400.	0.	0.	0.	.82	61.	29.8	D	20.6	4.0
17	2	890.	604.	0.	4488.	604.	0.	3975.	4400.	0.	* 96.	234.	.90	47.	42.0	F	22.1	2.5
18	2	4840.	136.	700.	4624.	136.	663.	4130.	4400.	0.	** 4840.	234.	.94	41.	49.8	F	18.6	2.7
19	2	530.	0.	0.	3924.	0.	0.	3467.	3800.	0.	** 530.	234.	.91	31.	55.8	F	20.6	3.2
20	2	1040.	724.	0.	4648.	724.	0.	4191.	4363.	37.	** 1040.	172.	.96	35.	59.6	F	21.6	2.9
21	3	2810.	836.	1104.	5484.	836.	1010.	5027.	5027.	573.	0.	0.	1.00	52.	32.5	E	30.3	2.3
22	2	1850.	0.	0.	4380.	0.	0.	4018.	4400.	0.	0.	0.	.91	57.	35.1	E	18.7	2.9
23	3	2390.	368.	252.	4748.	368.	232.	4386.	5502.	98.	0.	0.	.80	62.	23.6	C	24.1	4.8
24	3	960.	0.	1872.	4496.	0.	1500.	4153.	5565.	35.	0.	0.	.75	62.	22.3	C	17.2	4.8
25	2	1400.	0.	2624.	2624.	0.	2425.	2425.	3600.	0.	0.	0.	.67	62.	19.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 38.	41.3		16.7	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	283. VEH-HRS	321. PASS-HRS	1542. VEH-HRS	1746. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	8. VEH-HRS	9. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	170. VEH-HRS	192. PASS-HRS	706. VEH-HRS	800. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	461. VEH-HRS	522. PASS-HRS	2278. VEH-HRS	2579. PASS-HRS
TOTAL TRAV DISTANCE =	10884. VEH-MI.	12321. PASS-MI.	71654. VEH-MI.	81112. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		46. MPH.	
AVERAGE DENSITY =	41. VPMPL		33. VPMPL	
TOTAL FUEL =	720. GALLONS		4529. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		312. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	0.	8.13	3.08	0.05	0.29	0.05	0.39
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	8.13	3.08	0.05	0.29	0.05	0.39
OFF-RAMP	11	OUTPUT POINT	707.	169.72	64.28	0.99	6.07	1.06	8.12

QUEUE COLLISION IN SECTION 10 T2 =0.216

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2528.	168.	2528.	2528.	168.	2528.	4400.	0.	0.	0.	.57	62.	20.4	C	13.6	4.8
2	2	1970.	0.	0.	2360.	0.	0.	2360.	4100.	0.	0.	0.	.58	62.	19.0	C	13.6	4.8
3	2	1830.	372.	144.	2732.	372.	144.	2732.	4100.	0.	0.	0.	.67	62.	22.0	C	13.6	4.8
4	2	2010.	0.	0.	2588.	0.	0.	2588.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
5	3	2445.	656.	268.	3244.	656.	268.	3244.	5579.	21.	0.	0.	.58	35.	30.8	D	12.8	5.1
6	2	1890.	0.	0.	2976.	0.	0.	2962.	4100.	0.	* 543.	14.	.72	24.	62.1	F	12.4	4.5
7	3	5320.	712.	688.	3688.	712.	688.	3674.	5600.	0.	** 5320.	14.	.66	15.	80.1	F	11.2	5.6
8	2	880.	0.	0.	3000.	0.	0.	2986.	3900.	0.	** 880.	14.	.77	24.	62.2	F	13.6	3.9
9	2	1125.	208.	0.	3208.	208.	0.	3194.	3900.	0.	** 1125.	14.	.82	29.	55.1	F	20.4	3.3
10	2	6320.	456.	368.	3664.	456.	412.	3650.	4100.	0.	** 6320.	450.	.89	36.	50.0	F	21.4	2.9
11	2	2050.	0.	0.	3296.	0.	0.	3238.	4100.	0.	** 2050.	450.	.79	20.	82.0	F	17.4	4.7
12	2	2560.	732.	0.	4028.	732.	0.	3970.	4400.	0.	** 2560.	430.	.90	27.	72.6	F	16.1	3.5
13	2	1400.	0.	280.	4028.	0.	306.	3969.	4400.	0.	** 1400.	430.	.90	27.	72.6	F	38.0	3.5
14	2	1320.	0.	0.	3748.	0.	0.	3664.	4400.	0.	** 1320.	430.	.83	22.	85.1	F	13.0	4.3
15	3	540.	1120.	1324.	4868.	1120.	1301.	4784.	4784.	816.	0.	0.	1.00	52.	30.9	E	14.5	2.3
16	2	1230.	0.	0.	3544.	0.	0.	3483.	4400.	0.	0.	0.	.79	61.	28.5	D	20.3	4.3
17	2	890.	480.	0.	4024.	480.	0.	3963.	4400.	0.	0.	0.	.90	57.	34.8	D	21.5	3.1
18	2	4840.	156.	656.	4180.	156.	647.	4139.	4400.	0.	* 4504.	-20.	.94	32.	64.9	F	16.9	3.1
19	2	530.	0.	0.	3524.	0.	0.	3492.	3800.	0.	** 530.	-20.	.92	29.	60.1	F	20.4	3.3
20	2	1040.	720.	0.	4244.	720.	0.	4212.	4366.	34.	** 1040.	-20.	.96	35.	60.9	F	21.5	2.9
21	3	2810.	848.	1104.	5092.	848.	1097.	5060.	5060.	540.	0.	0.	1.00	52.	32.7	E	30.3	2.3
22	2	1850.	0.	0.	3988.	0.	0.	3963.	4400.	0.	0.	0.	.90	58.	34.3	D	18.6	3.1
23	3	2390.	408.	308.	4396.	408.	306.	4371.	5504.	96.	0.	0.	.79	62.	23.5	C	24.1	4.8
24	3	960.	0.	1812.	4088.	0.	1500.	4065.	5569.	31.	0.	0.	.73	62.	21.9	C	17.2	4.8
25	2	1400.	0.	2276.	2276.	0.	2263.	2263.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 34.	44.0		16.3	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	305. VEH-HRS	345. PASS-HRS	1847. VEH-HRS	2091. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	186. VEH-HRS	211. PASS-HRS	893. VEH-HRS	1010. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	491. VEH-HRS	556. PASS-HRS	2769. VEH-HRS	3135. PASS-HRS
TOTAL TRAV DISTANCE =	10324. VEH-MI.	11687. PASS-MI.	81978. VEH-MI.	92799. PASS-MI.
AVERAGE SYSTEM SPEED =	21. MPH.		44. MPH.	
AVERAGE DENSITY =	44. VPMPL		34. VPMPL	
TOTAL FUEL =	704. GALLONS		5233. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		362. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	783.	186.28	70.55	1.08	6.67	1.16	8.91

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2756.	164.	2756.	2756.	164.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	13.6	4.8
2	2	1970.	0.	0.	2592.	0.	0.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
3	2	1830.	364.	172.	2956.	364.	172.	2956.	4100.	0.	0.	0.	.72	62.	23.8	C	13.6	4.8
4	2	2010.	0.	0.	2784.	0.	0.	2784.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
5	3	2445.	712.	392.	3496.	712.	392.	3496.	5475.	125.	0.	0.	.64	62.	18.8	C	13.6	4.8
6	2	1890.	0.	0.	3104.	0.	0.	2948.	4100.	0.	** 1890.	156.	.72	20.	72.1	F	12.0	5.3
7	3	5320.	620.	664.	3724.	620.	664.	3568.	5600.	0.	** 5320.	156.	.64	12.	102.0	F	10.1	6.5
8	2	880.	0.	0.	3060.	0.	0.	2904.	3900.	0.	** 880.	156.	.74	16.	89.4	F	12.1	5.4
9	2	1125.	216.	0.	3276.	216.	0.	3120.	3900.	0.	** 1125.	156.	.80	19.	80.6	F	17.5	4.7
10	2	6320.	408.	360.	3684.	408.	360.	3528.	4100.	0.	** 6320.	156.	.86	24.	74.6	F	18.9	4.0
11	2	2050.	0.	0.	3324.	0.	0.	3168.	4100.	0.	** 2050.	156.	.77	18.	89.3	F	16.7	5.1
12	2	2560.	724.	0.	4048.	724.	0.	3892.	4400.	0.	** 2560.	156.	.88	26.	75.8	F	15.7	3.7
13	2	1400.	0.	308.	4048.	0.	308.	3892.	4400.	0.	** 1400.	156.	.88	26.	75.8	F	36.5	3.7
14	2	1320.	0.	0.	3740.	0.	0.	3584.	4400.	0.	** 1320.	156.	.81	20.	88.3	F	12.8	4.5
15	3	540.	1164.	1308.	4904.	1164.	1266.	4748.	4748.	852.	0.	0.	1.00	52.	30.7	E	14.5	2.3
16	2	1230.	0.	0.	3596.	0.	0.	3275.	4400.	0.	* 1153.	207.	.74	35.	47.2	F	19.0	4.6
17	2	890.	496.	0.	4092.	496.	0.	3771.	4400.	0.	** 890.	207.	.86	27.	68.9	F	19.4	3.8
18	2	4840.	200.	596.	4292.	200.	580.	3971.	4400.	0.	** 4840.	207.	.90	27.	72.4	F	16.1	3.5
19	2	530.	0.	0.	3696.	0.	0.	3391.	3800.	0.	** 530.	207.	.89	26.	64.2	F	19.7	3.6
20	2	1040.	688.	0.	4384.	688.	0.	4079.	4367.	33.	** 1040.	207.	.93	31.	66.4	F	20.8	3.2
21	3	2810.	912.	1116.	5296.	912.	1052.	4991.	4991.	609.	0.	0.	1.00	52.	32.3	E	30.3	2.3
22	2	1850.	0.	0.	4180.	0.	0.	3939.	4400.	0.	0.	0.	.90	58.	33.9	D	18.5	3.1
23	3	2390.	444.	256.	4624.	444.	243.	4383.	5484.	116.	0.	0.	.80	62.	23.6	C	24.1	4.8
24	3	960.	0.	1880.	4368.	0.	1500.	4140.	5561.	39.	0.	0.	.74	62.	22.3	C	17.2	4.8
25	2	1400.	0.	2488.	2488.	0.	2358.	2358.	3600.	0.	0.	0.	.66	62.	19.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 30.	51.7		15.7	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	343. VEH-HRS	388. PASS-HRS	2190. VEH-HRS	2479. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	205. VEH-HRS	232. PASS-HRS	1097. VEH-HRS	1242. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	548. VEH-HRS	620. PASS-HRS	3317. VEH-HRS	3755. PASS-HRS
TOTAL TRAV DISTANCE =	10150. VEH-MI.	11490. PASS-MI.	92128. VEH-MI.	104288. PASS-MI.
AVERAGE SYSTEM SPEED =	19. MPH.		42. MPH.	
AVERAGE DENSITY =	52. VPMPL		36. VPMPL	
TOTAL FUEL =	725. GALLONS		5957. GALLONS	
TOTAL EMISSIONS =	54. KILOGRAMS		417. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	853.	204.52	77.46	1.19	7.32	1.28	9.79

QUEUE COLLISION IN SECTION 15 T2 =0.025

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2736.	152.	2736.	2736.	152.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	13.6	4.8
2	2	1970.	0.	0.	2584.	0.	0.	2584.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
3	2	1830.	400.	232.	2984.	400.	232.	2984.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
4	2	2010.	0.	0.	2752.	0.	0.	2752.	4100.	0.	0.	0.	.67	62.	22.2	C	13.6	4.8
5	3	2445.	976.	400.	3728.	976.	400.	3660.	5393.	207.	* 415.	68.	.68	47.	25.7	F	13.3	4.9
6	2	1890.	0.	0.	3328.	0.	0.	3260.	4100.	0.	** 1890.	68.	.80	19.	85.6	F	11.8	4.8
7	3	5320.	568.	656.	3896.	568.	656.	3828.	5600.	0.	** 5320.	68.	.68	13.	94.9	F	10.7	6.1
8	2	880.	0.	0.	3240.	0.	0.	3172.	3900.	0.	** 880.	68.	.81	20.	78.5	F	12.8	4.5
9	2	1125.	184.	0.	3424.	184.	0.	3066.	3900.	0.	** 1125.	358.	.79	24.	65.2	F	18.8	4.0
10	2	6320.	364.	376.	3788.	364.	376.	3430.	4100.	0.	** 6320.	358.	.84	26.	65.6	F	19.6	3.7
11	2	2050.	0.	0.	3412.	0.	0.	3054.	4100.	0.	** 2050.	358.	.74	18.	84.2	F	17.0	5.0
12	2	2560.	648.	0.	4060.	648.	0.	3702.	4400.	0.	** 2560.	358.	.84	24.	77.3	F	15.3	4.0
13	2	1400.	0.	284.	4060.	0.	284.	3702.	4400.	0.	** 1400.	358.	.84	23.	79.4	F	34.4	4.0
14	2	1320.	0.	0.	3776.	0.	0.	3418.	4400.	0.	** 1320.	358.	.78	19.	92.3	F	12.5	4.9
15	3	540.	1088.	1264.	4864.	1088.	1246.	4506.	4796.	804.	** 540.	290.	.94	32.	46.6	F	13.4	3.1
16	2	1230.	0.	0.	3600.	0.	0.	3260.	4400.	0.	** 1230.	290.	.74	16.	101.5	F	16.0	5.5
17	2	890.	572.	0.	4172.	572.	0.	3832.	4400.	0.	** 890.	290.	.87	24.	78.2	F	19.1	3.9
18	2	4840.	196.	548.	4368.	196.	542.	4028.	4400.	0.	** 4840.	290.	.92	29.	70.2	F	16.4	3.4
19	2	530.	0.	0.	3820.	0.	0.	3486.	3800.	0.	** 530.	290.	.92	29.	60.3	F	20.3	3.4
20	2	1040.	688.	0.	4508.	688.	0.	4174.	4368.	32.	** 1040.	194.	.96	33.	62.5	F	21.3	3.0
21	3	2810.	872.	1032.	5380.	872.	968.	5046.	5046.	554.	0.	0.	1.00	52.	32.6	E	30.3	2.3
22	2	1850.	0.	0.	4348.	0.	0.	4078.	4400.	0.	0.	0.	.93	56.	36.1	E	18.9	2.8
23	3	2390.	536.	232.	4884.	536.	219.	4614.	5462.	138.	0.	0.	.84	62.	24.8	C	24.1	4.8
24	3	960.	0.	1860.	4652.	0.	1500.	4395.	5550.	50.	0.	0.	.79	62.	23.6	C	17.2	4.8
25	2	1400.	0.	2792.	2792.	0.	2638.	2638.	3600.	0.	0.	0.	.73	62.	21.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 30.		51.7	15.8	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	347. VEH-HRS	393. PASS-HRS	2537. VEH-HRS	2872. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	221. VEH-HRS	251. PASS-HRS	1319. VEH-HRS	1493. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	569. VEH-HRS	644. PASS-HRS	3885. VEH-HRS	4398. PASS-HRS
TOTAL TRAV DISTANCE =	10367. VEH-MI.	11736. PASS-MI.	102495. VEH-MI.	116024. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		40. MPH.	
AVERAGE DENSITY =	52. VPMPL		38. VPMPL	
TOTAL FUEL =	742. GALLONS		6699. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		472. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	918.	221.37	83.84	1.29	7.92	1.38	10.59

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2464.	132.	2464.	2464.	132.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
2	2	1970.	0.	0.	2332.	0.	0.	2332.	4100.	0.	0.	0.	.57	62.	18.8	C	13.6	4.8
3	2	1830.	368.	264.	2700.	368.	264.	2700.	4100.	0.	0.	0.	.66	62.	21.8	C	13.6	4.8
4	2	2010.	0.	0.	2436.	0.	0.	2436.	4100.	0.	0.	0.	.59	62.	19.6	C	13.6	4.8
5	3	2445.	1144.	364.	3580.	1144.	364.	3477.	5402.	198.	* 994.	103.	.64	28.	40.9	F	12.4	5.2
6	2	1890.	0.	0.	3216.	0.	0.	3113.	4100.	0.	** 1890.	103.	.76	17.	91.6	F	11.5	5.3
7	3	5320.	540.	660.	3756.	540.	660.	3653.	5600.	0.	** 5320.	103.	.65	12.	99.7	F	10.3	6.4
8	2	880.	0.	0.	3096.	0.	0.	2993.	3900.	0.	** 880.	103.	.77	17.	85.8	F	12.3	5.2
9	2	1125.	148.	0.	3244.	148.	0.	3141.	3900.	0.	** 1125.	103.	.81	20.	79.8	F	17.6	4.7
10	2	6320.	396.	428.	3640.	396.	428.	3537.	4100.	0.	** 6320.	103.	.86	24.	74.2	F	18.9	4.0
11	2	2050.	0.	0.	3212.	0.	0.	3109.	4100.	0.	** 2050.	103.	.76	17.	91.7	F	16.4	5.3
12	2	2560.	612.	0.	3824.	612.	0.	3721.	4400.	0.	** 2560.	103.	.85	22.	82.7	F	14.9	4.2
13	2	1400.	0.	324.	3824.	0.	324.	3721.	4400.	0.	** 1400.	103.	.85	22.	82.7	F	33.6	4.2
14	2	1320.	0.	0.	3500.	0.	0.	3397.	4400.	0.	** 1320.	103.	.77	18.	96.0	F	12.3	5.1
15	3	540.	1008.	1360.	4508.	1008.	1360.	4405.	4896.	704.	** 540.	103.	.90	27.	54.2	F	12.7	3.5
16	2	1230.	0.	0.	3148.	0.	0.	3045.	4400.	0.	** 1230.	103.	.69	14.	110.3	F	14.8	6.0
17	2	890.	624.	0.	3772.	624.	0.	3669.	4400.	0.	** 890.	103.	.83	22.	84.9	F	18.2	4.3
18	2	4840.	160.	520.	3932.	160.	520.	3829.	4400.	0.	** 4840.	103.	.87	24.	78.3	F	15.4	3.9
19	2	530.	0.	0.	3412.	0.	0.	3309.	3800.	0.	** 530.	103.	.87	24.	67.6	F	19.1	3.9
20	2	1040.	764.	0.	4176.	764.	0.	4073.	4364.	36.	** 1040.	103.	.93	31.	66.4	F	20.8	3.2
21	3	2810.	912.	1128.	5088.	912.	1105.	4985.	4985.	615.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3960.	0.	0.	3880.	4400.	0.	0.	0.	.88	59.	33.1	D	18.3	3.3
23	3	2390.	420.	180.	4380.	420.	177.	4300.	5488.	112.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1916.	4200.	0.	1500.	4123.	5566.	34.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2284.	2284.	0.	2242.	2242.	3600.	0.	0.	0.	.62	62.	18.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 27.	54.9		15.4	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	364. VEH-HRS	412. PASS-HRS	2901. VEH-HRS	3284. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	241. VEH-HRS	273. PASS-HRS	1560. VEH-HRS	1766. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	606. VEH-HRS	686. PASS-HRS	4491. VEH-HRS	5084. PASS-HRS
TOTAL TRAV DISTANCE =	9792. VEH-MI.	11084. PASS-MI.	112287. VEH-MI.	127108. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		39. MPH.	
AVERAGE DENSITY =	55. VPMPL		39. VPMPL	
TOTAL FUEL =	728. GALLONS		7427. GALLONS	
TOTAL EMISSIONS =	56. KILOGRAMS		528. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1013.	241.31	91.40	1.40	8.63	1.51	11.55

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2688.	168.	2688.	2688.	168.	2688.	4400.	0.	0.	0.	.61	62.	21.7	C	13.6	4.8
2	2	1970.	0.	0.	2520.	0.	0.	2520.	4100.	0.	0.	0.	.61	62.	20.3	C	13.6	4.8
3	2	1830.	356.	204.	2876.	356.	204.	2876.	4100.	0.	0.	0.	.70	62.	23.2	C	13.6	4.8
4	2	2010.	0.	0.	2672.	0.	0.	2672.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
5	3	2445.	912.	304.	3584.	912.	304.	3584.	5463.	137.	0.	0.	.66	44.	27.4	D	13.2	4.9
6	2	1890.	0.	0.	3280.	0.	0.	3550.	4100.	0.	* 323.	-270.	.87	27.	66.6	F	12.9	4.0
7	3	5320.	528.	692.	3808.	528.	692.	4078.	5600.	0.	** 5320.	-270.	.73	15.	88.1	F	11.3	5.6
8	2	880.	0.	0.	3116.	0.	0.	3386.	3900.	0.	** 880.	-270.	.87	24.	69.8	F	13.6	3.9
9	2	1125.	172.	0.	3288.	172.	0.	3558.	3900.	0.	** 1125.	-270.	.91	28.	62.7	F	20.2	3.4
10	2	6320.	392.	408.	3680.	392.	408.	3950.	4100.	0.	** 6320.	-270.	.96	34.	57.4	F	21.5	2.9
11	2	2050.	0.	0.	3272.	0.	0.	3542.	4100.	0.	** 2050.	-270.	.86	24.	74.1	F	18.9	4.0
12	2	2560.	568.	0.	3840.	568.	0.	4110.	4400.	0.	** 2560.	-270.	.93	31.	66.9	F	16.8	3.2
13	2	1400.	0.	384.	3840.	0.	384.	4110.	4400.	0.	** 1400.	-270.	.93	31.	66.9	F	40.3	3.2
14	2	1320.	0.	0.	3456.	0.	0.	3726.	4400.	0.	** 1320.	-270.	.85	23.	82.5	F	13.3	4.2
15	3	540.	916.	1268.	4372.	916.	1268.	4642.	4948.	652.	** 540.	-270.	.94	31.	49.6	F	13.3	3.1
16	2	1230.	0.	0.	3104.	0.	0.	3374.	4400.	0.	** 1230.	-270.	.77	17.	96.9	F	16.6	5.2
17	2	890.	552.	0.	3656.	552.	0.	3926.	4400.	0.	** 890.	-270.	.89	26.	74.4	F	19.7	3.6
18	2	4840.	176.	632.	3832.	176.	632.	4102.	4400.	0.	** 4840.	-270.	.93	31.	67.2	F	16.8	3.2
19	2	530.	0.	0.	3200.	0.	0.	3470.	3800.	0.	** 530.	-270.	.91	28.	61.0	F	20.2	3.4
20	2	1040.	748.	0.	3948.	748.	0.	4218.	4367.	33.	** 1040.	-270.	.97	35.	60.7	F	21.6	2.9
21	3	2810.	852.	1136.	4800.	852.	1200.	5070.	5070.	530.	0.	0.	1.00	52.	32.8	E	30.3	2.3
22	2	1850.	0.	0.	3664.	0.	0.	3870.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	308.	196.	3972.	308.	206.	4178.	5534.	66.	0.	0.	.75	62.	22.5	C	24.1	4.8
24	3	960.	0.	1716.	3776.	0.	1500.	3972.	5581.	19.	0.	0.	.71	62.	21.4	C	17.2	4.8
25	2	1400.	0.	2060.	2060.	0.	2167.	2167.	3600.	0.	0.	0.	.60	62.	17.5	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 33.		47.6	16.3	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	316. VEH-HRS	358. PASS-HRS	3217. VEH-HRS	3642. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	263. VEH-HRS	297. PASS-HRS	1823. VEH-HRS	2063. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	579. VEH-HRS	655. PASS-HRS	5070. VEH-HRS	5739. PASS-HRS
TOTAL TRAV DISTANCE =	10525. VEH-MI.	11914. PASS-MI.	122812. VEH-MI.	139023. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		38. MPH.	
AVERAGE DENSITY =	48. VPMPL		40. VPMPL	
TOTAL FUEL =	746. GALLONS		8173. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		582. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1089.	262.75	99.52	1.53	9.40	1.64	12.57

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2988.	136.	2988.	2988.	136.	2988.	4400.	0.	0.	0.	.68	62.	24.1	C	13.6	4.8
2	2	1970.	0.	0.	2852.	0.	0.	2852.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
3	2	1830.	304.	84.	3156.	304.	84.	3156.	4100.	0.	0.	0.	.77	61.	25.7	C	13.7	4.5
4	2	2010.	0.	0.	3072.	0.	0.	3072.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
5	3	2445.	680.	304.	3752.	680.	304.	3752.	5538.	62.	0.	0.	.68	62.	20.2	C	13.6	4.8
6	2	1890.	0.	0.	3448.	0.	0.	3448.	4100.	0.	0.	0.	.84	57.	30.2	D	14.1	3.6
7	3	5320.	612.	732.	4060.	612.	732.	4120.	5600.	0.	* 5071.	-60.	.74	16.	86.1	F	11.3	5.5
8	2	880.	0.	0.	3328.	0.	0.	3388.	3900.	0.	** 880.	-60.	.87	24.	69.7	F	13.6	3.9
9	2	1125.	184.	0.	3512.	184.	0.	3572.	3900.	0.	** 1125.	-60.	.92	29.	62.2	F	20.3	3.4
10	2	6320.	412.	340.	3924.	412.	340.	3984.	4100.	0.	** 6320.	-60.	.97	36.	56.0	F	21.7	2.8
11	2	2050.	0.	0.	3584.	0.	0.	3644.	4100.	0.	** 2050.	-60.	.89	26.	69.9	F	19.6	3.7
12	2	2560.	640.	0.	4224.	640.	0.	4284.	4400.	0.	** 2560.	-60.	.97	36.	59.7	F	17.4	2.8
13	2	1400.	0.	412.	4224.	0.	412.	4284.	4400.	0.	** 1400.	-60.	.97	36.	59.7	F	38.9	2.8
14	2	1320.	0.	0.	3812.	0.	0.	3872.	4400.	0.	** 1320.	-60.	.88	25.	76.6	F	13.8	3.7
15	3	540.	796.	1180.	4608.	796.	1180.	4668.	5008.	592.	** 540.	-60.	.93	31.	51.0	F	13.2	3.2
16	2	1230.	0.	0.	3428.	0.	0.	3488.	4400.	0.	** 1230.	-60.	.79	19.	92.3	F	17.2	4.8
17	2	890.	484.	0.	3912.	484.	0.	3972.	4400.	0.	** 890.	-60.	.90	27.	72.5	F	19.9	3.5
18	2	4840.	180.	608.	4092.	180.	608.	4152.	4400.	0.	** 4840.	-60.	.94	32.	65.1	F	16.9	3.1
19	2	530.	0.	0.	3484.	0.	0.	3544.	3800.	0.	** 530.	-60.	.93	31.	58.0	F	20.7	3.2
20	2	1040.	644.	0.	4128.	644.	0.	4188.	4367.	33.	** 1040.	-60.	.96	34.	61.9	F	21.4	2.9
21	3	2810.	856.	1188.	4984.	856.	1202.	5044.	5044.	556.	0.	0.	1.00	52.	32.6	E	30.3	2.3
22	2	1850.	0.	0.	3796.	0.	0.	3842.	4400.	0.	0.	0.	.87	59.	32.6	D	18.3	3.4
23	3	2390.	272.	140.	4068.	272.	142.	4114.	5534.	66.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	1856.	3928.	0.	1500.	3972.	5582.	18.	0.	0.	.71	62.	21.4	C	17.2	4.8
25	2	1400.	0.	2072.	2072.	0.	2095.	2095.	3600.	0.	0.	0.	.58	62.	16.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 36.	45.6		16.4	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	303. VEH-HRS	343. PASS-HRS	3520. VEH-HRS	3985. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	284. VEH-HRS	322. PASS-HRS	2107. VEH-HRS	2385. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	587. VEH-HRS	664. PASS-HRS	5657. VEH-HRS	6403. PASS-HRS
TOTAL TRAV DISTANCE =	10889. VEH-MI.	12326. PASS-MI.	133700. VEH-MI.	151349. PASS-MI.
AVERAGE SYSTEM SPEED =	19. MPH.		38. MPH.	
AVERAGE DENSITY =	46. VPMPL		40. VPMPL	
TOTAL FUEL =	773. GALLONS		8946. GALLONS	
TOTAL EMISSIONS =	56. KILOGRAMS		639. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1183.	284.05	107.59	1.65	10.16	1.77	13.59

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2864.	152.	2864.	2864.	152.	2864.	4400.	0.	0.	0.	.65	62.	23.1	C	13.6	4.8
2	2	1970.	0.	0.	2712.	0.	0.	2712.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
3	2	1830.	296.	92.	3008.	296.	92.	3008.	4100.	0.	0.	0.	.73	62.	24.3	C	13.6	4.8
4	2	2010.	0.	0.	2916.	0.	0.	2916.	4100.	0.	0.	0.	.71	62.	23.5	C	13.6	4.8
5	3	2445.	672.	256.	3588.	672.	256.	3588.	5569.	31.	0.	0.	.64	62.	19.3	C	13.6	4.8
6	2	1890.	0.	0.	3332.	0.	0.	3218.	4100.	0.	* 790.	114.	.78	47.	34.2	F	13.6	4.2
7	3	5320.	568.	752.	3900.	568.	752.	3786.	5600.	0.	** 5320.	114.	.68	13.	95.4	F	10.6	6.1
8	2	880.	0.	0.	3148.	0.	0.	3034.	3900.	0.	** 880.	114.	.78	18.	84.1	F	12.4	5.0
9	2	1125.	208.	0.	3356.	208.	0.	3242.	3900.	0.	** 1125.	114.	.83	21.	75.6	F	18.2	4.4
10	2	6320.	504.	272.	3860.	504.	272.	3746.	4100.	0.	** 6320.	114.	.91	28.	65.7	F	20.2	3.4
11	2	2050.	0.	0.	3588.	0.	0.	3474.	4100.	0.	** 2050.	114.	.85	23.	76.8	F	18.5	4.2
12	2	2560.	612.	0.	4200.	612.	0.	4086.	4400.	0.	** 2560.	114.	.93	30.	67.8	F	16.7	3.2
13	2	1400.	0.	356.	4200.	0.	356.	4086.	4400.	0.	** 1400.	114.	.93	30.	67.8	F	40.4	3.2
14	2	1320.	0.	0.	3844.	0.	0.	3730.	4400.	0.	** 1320.	114.	.85	23.	82.4	F	13.3	4.2
15	3	540.	816.	1272.	4660.	816.	1272.	4546.	5008.	592.	** 540.	114.	.91	28.	54.3	F	12.8	3.5
16	2	1230.	0.	0.	3388.	0.	0.	3274.	4400.	0.	** 1230.	114.	.74	16.	101.0	F	16.1	5.4
17	2	890.	496.	0.	3884.	496.	0.	3770.	4400.	0.	** 890.	114.	.86	23.	80.7	F	18.8	4.0
18	2	4840.	184.	520.	4068.	184.	520.	3954.	4400.	0.	** 4840.	114.	.90	27.	73.2	F	16.0	3.6
19	2	530.	0.	0.	3548.	0.	0.	3434.	3800.	0.	** 530.	114.	.90	27.	62.5	F	19.9	3.5
20	2	1040.	656.	0.	4204.	656.	0.	4090.	4366.	34.	** 1040.	114.	.94	31.	65.9	F	20.8	3.2
21	3	2810.	892.	1216.	5096.	892.	1189.	4982.	4982.	618.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3880.	0.	0.	3793.	4400.	0.	0.	0.	.86	59.	32.0	D	18.2	3.5
23	3	2390.	312.	184.	4192.	312.	180.	4105.	5525.	75.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	1756.	4008.	0.	1500.	3925.	5575.	25.	0.	0.	.70	62.	21.1	C	17.2	4.8
25	2	1400.	0.	2252.	2252.	0.	2205.	2205.	3600.	0.	0.	0.	.61	62.	17.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 32.	49.4	15.9	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	328. VEH-HRS	372. PASS-HRS	3848. VEH-HRS	4356. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	303. VEH-HRS	343. PASS-HRS	2409. VEH-HRS	2727. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	631. VEH-HRS	714. PASS-HRS	6287. VEH-HRS	7117. PASS-HRS
TOTAL TRAV DISTANCE =	10407. VEH-MI.	11780. PASS-MI.	144107. VEH-MI.	163129. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		37. MPH.	
AVERAGE DENSITY =	49. VPMPL		41. VPMPL	
TOTAL FUEL =	769. GALLONS		9714. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		697. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1238.	302.69	114.65	1.76	10.83	1.89	14.48

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2628.	156.	2628.	2628.	156.	2628.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2472.	0.	0.	2472.	4100.	0.	0.	0.	.60	62.	19.9	C	13.6	4.8
3	2	1830.	348.	96.	2820.	348.	96.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
4	2	2010.	0.	0.	2724.	0.	0.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	13.6	4.8
5	3	2445.	684.	400.	3408.	684.	400.	3408.	5488.	112.	0.	0.	.62	62.	18.3	C	13.6	4.8
6	2	1890.	0.	0.	3008.	0.	0.	3083.	4100.	0.	* 70.	-75.	.75	38.	40.6	F	13.0	4.9
7	3	5320.	560.	584.	3568.	560.	584.	3643.	5600.	0.	** 5320.	-75.	.65	12.	100.0	F	10.3	6.4
8	2	880.	0.	0.	2984.	0.	0.	3059.	3900.	0.	** 880.	-75.	.78	18.	83.1	F	12.5	4.9
9	2	1125.	224.	0.	3208.	224.	0.	3283.	3900.	0.	** 1125.	-75.	.84	22.	74.0	F	18.4	4.2
10	2	6320.	564.	248.	3772.	564.	248.	3847.	4100.	0.	** 6320.	-75.	.94	31.	61.6	F	20.9	3.1
11	2	2050.	0.	0.	3524.	0.	0.	3599.	4100.	0.	** 2050.	-75.	.88	25.	71.7	F	19.3	3.8
12	2	2560.	540.	0.	4064.	540.	0.	4139.	4400.	0.	** 2560.	-75.	.94	32.	65.7	F	16.9	3.1
13	2	1400.	0.	420.	4064.	0.	420.	4139.	4400.	0.	** 1400.	-75.	.94	32.	65.7	F	40.1	3.1
14	2	1320.	0.	0.	3644.	0.	0.	3719.	4400.	0.	** 1320.	-75.	.85	22.	82.8	F	13.2	4.2
15	3	540.	848.	1336.	4492.	848.	1336.	4567.	5004.	596.	** 540.	-75.	.91	28.	53.6	F	12.9	3.4
16	2	1230.	0.	0.	3156.	0.	0.	3231.	4400.	0.	** 1230.	-75.	.73	16.	102.8	F	15.9	5.6
17	2	890.	544.	0.	3700.	544.	0.	3775.	4400.	0.	** 890.	-75.	.86	23.	80.5	F	18.8	4.0
18	2	4840.	236.	608.	3936.	236.	608.	4011.	4400.	0.	** 4840.	-75.	.91	28.	70.9	F	16.3	3.4
19	2	530.	0.	0.	3328.	0.	0.	3403.	3800.	0.	** 530.	-75.	.90	27.	63.7	F	19.7	3.6
20	2	1040.	688.	0.	4016.	688.	0.	4091.	4366.	34.	** 1040.	-75.	.94	31.	65.8	F	20.8	3.1
21	3	2810.	896.	1284.	4912.	896.	1304.	4987.	4987.	613.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3628.	0.	0.	3683.	4400.	0.	0.	0.	.84	60.	30.6	D	17.9	3.7
23	3	2390.	272.	172.	3900.	272.	174.	3955.	5540.	60.	0.	0.	.71	62.	21.3	C	24.1	4.8
24	3	960.	0.	1704.	3728.	0.	1500.	3781.	5585.	15.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	2024.	2024.	0.	2053.	2053.	3600.	0.	0.	0.	.57	62.	16.6	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 31.	48.4		16.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	323. VEH-HRS	365. PASS-HRS	4171. VEH-HRS	4722. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	317. VEH-HRS	358. PASS-HRS	2726. VEH-HRS	3086. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	639. VEH-HRS	724. PASS-HRS	6927. VEH-HRS	7841. PASS-HRS
TOTAL TRAV DISTANCE =	10145. VEH-MI.	11484. PASS-MI.	154252. VEH-MI.	174613. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		37. MPH.	
AVERAGE DENSITY =	48. VPMPL		41. VPMPL	
TOTAL FUEL =	754. GALLONS		10468. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		755. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1295.	316.68	119.94	1.84	11.33	1.98	15.15

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2220.	100.	2220.	2220.	100.	2220.	4400.	0.	0.	0.	.50	62.	17.9	B	13.6	4.8
2	2	1970.	0.	0.	2120.	0.	0.	2120.	4100.	0.	0.	0.	.52	62.	17.1	B	13.6	4.8
3	2	1830.	300.	104.	2420.	300.	104.	2420.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
4	2	2010.	0.	0.	2316.	0.	0.	2316.	4100.	0.	0.	0.	.56	62.	18.7	C	13.6	4.8
5	3	2445.	576.	448.	2892.	576.	448.	2892.	5528.	72.	0.	0.	.52	62.	15.5	B	13.6	4.8
6	2	1890.	0.	0.	2444.	0.	0.	2444.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
7	3	5320.	508.	532.	2952.	508.	532.	3643.	5600.	0.	* 1741.	-691.	.65	16.	76.8	F	11.0	5.9
8	2	880.	0.	0.	2420.	0.	0.	3111.	3900.	0.	** 880.	-691.	.80	19.	81.0	F	12.6	4.8
9	2	1125.	192.	0.	2612.	192.	0.	3303.	3900.	0.	** 1125.	-691.	.85	23.	73.1	F	18.5	4.2
10	2	6320.	492.	248.	3104.	492.	248.	3795.	4100.	0.	** 6320.	-691.	.93	30.	63.7	F	20.6	3.3
11	2	2050.	0.	0.	2856.	0.	0.	3547.	4100.	0.	** 2050.	-691.	.87	24.	73.8	F	19.0	3.9
12	2	2560.	544.	0.	3400.	544.	0.	4091.	4400.	0.	** 2560.	-691.	.93	30.	67.6	F	16.8	3.2
13	2	1400.	0.	392.	3400.	0.	392.	4091.	4400.	0.	** 1400.	-691.	.93	30.	67.6	F	40.4	3.2
14	2	1320.	0.	0.	3008.	0.	0.	3699.	4400.	0.	** 1320.	-691.	.84	22.	83.6	F	13.2	4.2
15	3	540.	888.	1228.	3896.	888.	1228.	4587.	4992.	608.	** 540.	-691.	.92	29.	52.6	F	13.0	3.3
16	2	1230.	0.	0.	2668.	0.	0.	3359.	4400.	0.	** 1230.	-691.	.76	17.	97.5	F	16.5	5.2
17	2	890.	636.	0.	3304.	636.	0.	3995.	4400.	0.	** 890.	-691.	.91	28.	71.5	F	20.1	3.5
18	2	4840.	272.	636.	3576.	272.	636.	4267.	4400.	0.	** 4840.	-691.	.97	35.	60.4	F	17.3	2.8
19	2	530.	0.	0.	2940.	0.	0.	3631.	3800.	0.	** 530.	-691.	.96	33.	54.4	F	21.3	3.0
20	2	1040.	604.	0.	3544.	604.	0.	4235.	4378.	22.	** 1040.	-691.	.97	35.	60.5	F	21.6	2.8
21	3	2810.	864.	1184.	4408.	864.	1370.	5099.	5099.	501.	0.	0.	1.00	52.	33.0	E	30.3	2.3
22	2	1850.	0.	0.	3224.	0.	0.	3730.	4400.	0.	0.	0.	.85	60.	31.2	D	18.0	3.6
23	3	2390.	308.	176.	3532.	308.	201.	4038.	5547.	53.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1552.	3356.	0.	1500.	3837.	5590.	10.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1804.	1804.	0.	2062.	2062.	3600.	0.	0.	0.	.57	62.	16.6	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 34.	44.0		16.5	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	287. VEH-HRS	325. PASS-HRS	4458. VEH-HRS	5047. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	332. VEH-HRS	376. PASS-HRS	3058. VEH-HRS	3462. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	619. VEH-HRS	701. PASS-HRS	7546. VEH-HRS	8542. PASS-HRS
TOTAL TRAV DISTANCE =	9713. VEH-MI.	10995. PASS-MI.	163965. VEH-MI.	185609. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		37. MPH.	
AVERAGE DENSITY =	44. VPMPL		42. VPMPL	
TOTAL FUEL =	714. GALLONS		11182. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		810. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1364.	332.39	125.89	1.93	11.89	2.08	15.90

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2144.	72.	2144.	2144.	72.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	13.6	4.8
2	2	1970.	0.	0.	2072.	0.	0.	2072.	4100.	0.	0.	0.	.51	62.	16.7	B	13.6	4.8
3	2	1830.	324.	120.	2396.	324.	120.	2396.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
4	2	2010.	0.	0.	2276.	0.	0.	2276.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
5	3	2445.	452.	332.	2728.	452.	332.	2728.	5600.	0.	0.	0.	.49	62.	14.7	B	13.6	4.8
6	2	1890.	0.	0.	2396.	0.	0.	2396.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
7	3	5320.	536.	484.	2932.	536.	484.	2932.	5600.	0.	0.	0.	.52	38.	25.9	C	12.9	5.0
8	2	880.	0.	0.	2448.	0.	0.	2448.	3900.	0.	0.	0.	.63	19.	64.7	F	12.5	5.2
9	2	1125.	188.	0.	2636.	188.	0.	3129.	3900.	0.	* 617.	-493.	.80	20.	79.3	F	17.6	4.7
10	2	6320.	544.	300.	3180.	544.	300.	3673.	4100.	0.	** 6320.	-493.	.90	27.	68.7	F	19.7	3.6
11	2	2050.	0.	0.	2880.	0.	0.	3373.	4100.	0.	** 2050.	-493.	.82	21.	81.0	F	18.0	4.4
12	2	2560.	524.	0.	3404.	524.	0.	3897.	4400.	0.	** 2560.	-493.	.89	26.	75.6	F	15.7	3.7
13	2	1400.	0.	372.	3404.	0.	372.	3897.	4400.	0.	** 1400.	-493.	.89	26.	75.6	F	36.6	3.7
14	2	1320.	0.	0.	3032.	0.	0.	3525.	4400.	0.	** 1320.	-493.	.80	19.	90.7	F	12.6	4.7
15	3	540.	868.	1100.	3900.	868.	1100.	4393.	4976.	624.	** 540.	-493.	.88	26.	57.3	F	12.5	3.7
16	2	1230.	0.	0.	2800.	0.	0.	3293.	4400.	0.	** 1230.	-493.	.75	16.	100.2	F	16.2	5.4
17	2	890.	648.	0.	3448.	648.	0.	3941.	4400.	0.	** 890.	-493.	.90	27.	73.8	F	19.7	3.6
18	2	4840.	232.	580.	3680.	232.	580.	4173.	4400.	0.	** 4840.	-493.	.95	32.	64.3	F	17.0	3.0
19	2	530.	0.	0.	3100.	0.	0.	3593.	3800.	0.	** 530.	-493.	.95	32.	56.0	F	21.0	3.1
20	2	1040.	712.	0.	3812.	712.	0.	4305.	4368.	32.	** 1040.	-493.	.99	38.	57.2	F	21.9	2.7
21	3	2810.	796.	1160.	4608.	796.	1284.	5101.	5101.	499.	0.	0.	1.00	52.	33.0	E	30.3	2.3
22	2	1850.	0.	0.	3448.	0.	0.	3817.	4400.	0.	0.	0.	.87	59.	32.3	D	18.2	3.4
23	3	2390.	272.	120.	3720.	272.	132.	4089.	5548.	52.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1816.	3600.	0.	1500.	3957.	5591.	9.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	1784.	1784.	0.	1961.	1961.	3600.	0.	0.	0.	.54	62.	15.8	B	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 36. 41.1 16.7 4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	262. VEH-HRS	297. PASS-HRS	4720. VEH-HRS	5343. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	356. VEH-HRS	404. PASS-HRS	3415. VEH-HRS	3866. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	619. VEH-HRS	700. PASS-HRS	8165. VEH-HRS	9243. PASS-HRS
TOTAL TRAV DISTANCE =	9387. VEH-MI.	10626. PASS-MI.	173352. VEH-MI.	196235. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		37. MPH.	
AVERAGE DENSITY =	41. VPMPL		42. VPMPL	
TOTAL FUEL =	698. GALLONS		11880. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		865. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1488.	356.46	135.01	2.07	12.75	2.23	17.05

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1920.	80.	1920.	1920.	80.	1920.	4400.	0.	0.	0.	.44	62.	15.5	B	13.6	4.8
2	2	1970.	0.	0.	1840.	0.	0.	1840.	4100.	0.	0.	0.	.45	62.	14.8	B	13.6	4.8
3	2	1830.	336.	48.	2176.	336.	48.	2176.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
4	2	2010.	0.	0.	2128.	0.	0.	2128.	4100.	0.	0.	0.	.52	62.	17.2	B	13.6	4.8
5	3	2445.	632.	308.	2760.	632.	308.	2760.	5576.	24.	0.	0.	.49	62.	14.8	B	13.6	4.8
6	2	1890.	0.	0.	2452.	0.	0.	2452.	4100.	0.	0.	0.	.60	62.	19.8	C	13.6	4.8
7	3	5320.	500.	604.	2952.	500.	604.	2952.	5600.	0.	0.	0.	.53	62.	15.9	B	13.6	4.8
8	2	880.	0.	0.	2348.	0.	0.	2348.	3900.	0.	0.	0.	.60	62.	18.9	C	14.9	4.8
9	2	1125.	192.	0.	2540.	192.	0.	2540.	3900.	0.	0.	0.	.65	58.	22.0	C	19.8	4.8
10	2	6320.	580.	280.	3120.	580.	280.	3120.	4100.	0.	0.	0.	.76	37.	42.0	E	20.0	4.0
11	2	2050.	0.	0.	2840.	0.	0.	3401.	4100.	0.	* 990.	-561.	.83	22.	78.0	F	18.2	4.4
12	2	2560.	544.	0.	3384.	544.	0.	3945.	4400.	0.	** 2560.	-561.	.90	27.	73.6	F	16.0	3.6
13	2	1400.	0.	384.	3384.	0.	384.	3945.	4400.	0.	** 1400.	-561.	.90	27.	73.6	F	37.5	3.6
14	2	1320.	0.	0.	3000.	0.	0.	3561.	4400.	0.	** 1320.	-561.	.81	20.	89.3	F	12.7	4.6
15	3	540.	780.	972.	3780.	780.	972.	4341.	5020.	580.	** 540.	-561.	.86	24.	60.3	F	12.2	3.9
16	2	1230.	0.	0.	2808.	0.	0.	3369.	4400.	0.	** 1230.	-561.	.77	17.	97.1	F	16.6	5.2
17	2	890.	648.	0.	3456.	648.	0.	4017.	4400.	0.	** 890.	-561.	.91	28.	70.7	F	20.2	3.4
18	2	4840.	232.	612.	3688.	232.	612.	4249.	4400.	0.	** 4840.	-561.	.97	35.	61.2	F	17.3	2.9
19	2	530.	0.	0.	3076.	0.	0.	3637.	3800.	0.	** 530.	-561.	.96	34.	54.2	F	21.3	3.0
20	2	1040.	684.	0.	3760.	684.	0.	4321.	4371.	29.	** 1040.	-561.	.99	38.	56.7	F	22.0	2.7
21	3	2810.	808.	1092.	4568.	808.	1226.	5129.	5129.	471.	0.	0.	1.00	52.	33.2	E	30.3	2.3
22	2	1850.	0.	0.	3476.	0.	0.	3902.	4400.	0.	0.	0.	.89	58.	33.4	D	18.4	3.2
23	3	2390.	288.	120.	3764.	288.	134.	4190.	5542.	58.	0.	0.	.76	62.	22.5	C	24.1	4.8
24	3	960.	0.	1772.	3644.	0.	1500.	4057.	5588.	12.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	1872.	1872.	0.	2084.	2084.	3600.	0.	0.	0.	.58	62.	16.8	B	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 41. 34.9 17.0 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	224. VEH-HRS	253. PASS-HRS	4944. VEH-HRS	5597. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	387. VEH-HRS	438. PASS-HRS	3802. VEH-HRS	4303. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	611. VEH-HRS	691. PASS-HRS	8776. VEH-HRS	9934. PASS-HRS
TOTAL TRAV DISTANCE =	9129. VEH-MI.	10334. PASS-MI.	182482. VEH-MI.	206569. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		37. MPH.	
AVERAGE DENSITY =	35. VPMPL		41. VPMPL	
TOTAL FUEL =	684. GALLONS		12563. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		921. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1606.	386.73	146.47	2.25	13.84	2.42	18.50

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2052.	100.	2052.	2052.	100.	2052.	4400.	0.	0.	0.	.47	62.	16.5	B	13.6	4.8
2	2	1970.	0.	0.	1952.	0.	0.	1952.	4100.	0.	0.	0.	.48	62.	15.7	B	13.6	4.8
3	2	1830.	404.	64.	2356.	404.	64.	2356.	4100.	0.	0.	0.	.57	62.	19.0	C	13.6	4.8
4	2	2010.	0.	0.	2292.	0.	0.	2292.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
5	3	2445.	528.	284.	2820.	528.	284.	2820.	5600.	0.	0.	0.	.50	62.	15.2	B	13.6	4.8
6	2	1890.	0.	0.	2536.	0.	0.	2536.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
7	3	5320.	560.	668.	3096.	560.	668.	3096.	5600.	0.	0.	0.	.55	62.	16.6	B	13.6	4.8
8	2	880.	0.	0.	2428.	0.	0.	2428.	3900.	0.	0.	0.	.62	62.	19.6	C	14.9	4.8
9	2	1125.	200.	0.	2628.	200.	0.	2628.	3900.	0.	0.	0.	.67	62.	21.2	C	19.9	4.8
10	2	6320.	496.	320.	3124.	496.	320.	3124.	4100.	0.	0.	0.	.76	62.	25.4	C	20.1	4.5
11	2	2050.	0.	0.	2804.	0.	0.	2804.	4100.	0.	0.	0.	.68	58.	24.3	C	19.9	4.8
12	2	2560.	692.	0.	3496.	692.	0.	3496.	4400.	0.	0.	0.	.79	47.	37.0	E	17.3	3.9
13	2	1400.	0.	384.	3496.	0.	384.	3496.	4400.	0.	0.	0.	.79	41.	42.6	E	36.3	3.7
14	2	1320.	0.	0.	3112.	0.	0.	3112.	4400.	0.	0.	0.	.71	29.	54.0	F	13.8	4.4
15	3	540.	748.	1180.	3860.	748.	1180.	3860.	5080.	520.	0.	0.	.76	29.	44.1	E	12.4	4.0
16	2	1230.	0.	0.	2680.	0.	0.	3289.	4400.	0.	* 135.	-609.	.75	17.	94.5	F	16.4	5.4
17	2	890.	648.	0.	3328.	648.	0.	3937.	4400.	0.	** 890.	-609.	.89	27.	73.9	F	19.7	3.6
18	2	4840.	252.	636.	3580.	252.	636.	4189.	4400.	0.	** 4840.	-609.	.95	33.	63.6	F	17.1	3.0
19	2	530.	0.	0.	2944.	0.	0.	3553.	3800.	0.	** 530.	-609.	.93	31.	57.6	F	20.8	3.2
20	2	1040.	656.	0.	3600.	656.	0.	4209.	4377.	23.	** 1040.	-609.	.96	34.	61.6	F	21.4	2.9
21	3	2810.	876.	1168.	4476.	876.	1327.	5085.	5085.	515.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	3308.	0.	0.	3758.	4400.	0.	0.	0.	.85	60.	31.5	D	18.1	3.5
23	3	2390.	260.	160.	3568.	260.	180.	4018.	5556.	44.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	1548.	3408.	0.	1500.	3837.	5590.	10.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1860.	1860.	0.	2094.	2094.	3600.	0.	0.	0.	.58	62.	16.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 48.	29.0		17.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	188. VEH-HRS	213. PASS-HRS	5133. VEH-HRS	5810. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	409. VEH-HRS	463. PASS-HRS	4211. VEH-HRS	4766. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	597. VEH-HRS	676. PASS-HRS	9373. VEH-HRS	10610. PASS-HRS
TOTAL TRAV DISTANCE =	9046. VEH-MI.	10240. PASS-MI.	191528. VEH-MI.	216809. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		37. MPH.	
AVERAGE DENSITY =	29. VPMPL		41. VPMPL	
TOTAL FUEL =	688. GALLONS		13251. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		978. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1667.	409.10	154.95	2.38	14.64	2.55	19.57

```
QUEUE SPLIT SECTION 19
QUEUE SPLIT SECTION 18
QUEUE CLEAR SECTION  20 FT=   370
QUEUE CLEAR SECTION  19 FT=   212
QUEUE CLEAR SECTION  18 FT=  1959
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1584.	80.	1584.	1584.	80.	1584.	4400.	0.	0.	0.	.36	62.	12.8	B	13.6	4.8
2	2	1970.	0.	0.	1504.	0.	0.	1504.	4100.	0.	0.	0.	.37	62.	12.1	B	13.6	4.8
3	2	1830.	376.	48.	1880.	376.	48.	1880.	4100.	0.	0.	0.	.46	62.	15.2	B	13.6	4.8
4	2	2010.	0.	0.	1832.	0.	0.	1832.	4100.	0.	0.	0.	.45	62.	14.8	B	13.6	4.8
5	3	2445.	536.	280.	2368.	536.	280.	2368.	5600.	0.	0.	0.	.42	62.	12.7	B	13.6	4.8
6	2	1890.	0.	0.	2088.	0.	0.	2088.	4100.	0.	0.	0.	.51	62.	16.8	B	13.6	4.8
7	3	5320.	596.	548.	2684.	596.	548.	2684.	5600.	0.	0.	0.	.48	62.	14.4	B	13.6	4.8
8	2	880.	0.	0.	2136.	0.	0.	2136.	3900.	0.	0.	0.	.55	62.	17.2	B	14.9	4.8
9	2	1125.	224.	0.	2360.	224.	0.	2360.	3900.	0.	0.	0.	.61	62.	19.0	C	19.9	4.8
10	2	6320.	604.	312.	2964.	604.	312.	2964.	4100.	0.	0.	0.	.72	62.	23.9	C	19.9	4.8
11	2	2050.	0.	0.	2652.	0.	0.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	19.9	4.8
12	2	2560.	880.	0.	3532.	880.	0.	3532.	4400.	0.	0.	0.	.80	61.	29.0	D	17.6	4.2
13	2	1400.	0.	368.	3532.	0.	368.	3532.	4400.	0.	0.	0.	.80	61.	29.0	D	33.2	4.2
14	2	1320.	0.	0.	3164.	0.	0.	3164.	4400.	0.	0.	0.	.72	62.	25.6	C	14.9	4.7
15	3	540.	752.	1160.	3916.	752.	1160.	3916.	5072.	528.	0.	0.	.77	62.	21.1	C	12.6	4.8
16	2	1230.	0.	0.	2756.	0.	0.	2756.	4400.	0.	0.	0.	.63	61.	22.5	C	19.9	4.8
17	2	890.	632.	0.	3388.	632.	0.	3388.	4400.	0.	0.	0.	.77	44.	38.3	E	19.7	4.4
18	2	4840.	272.	604.	3660.	272.	604.	3944.	4400.	0.	0.	-284.	.90	30.	66.0	F	16.3	3.6
19	2	530.	0.	0.	3056.	0.	0.	3357.	3800.	0.	0.	-17.	.88	31.	54.2	F	20.0	3.6
20	2	1040.	528.	0.	3584.	528.	0.	3925.	4381.	19.	0.	-40.	.90	32.	60.4	F	20.2	3.5
21	3	2810.	820.	996.	4404.	820.	1073.	4745.	5180.	420.	0.	0.	.92	57.	27.7	D	27.0	2.9
22	2	1850.	0.	0.	3408.	0.	0.	3672.	4400.	0.	0.	0.	.83	60.	30.5	D	17.9	3.7
23	3	2390.	288.	148.	3696.	288.	159.	3960.	5542.	58.	0.	0.	.71	62.	21.3	C	24.1	4.8
24	3	960.	0.	1384.	3548.	0.	1500.	3801.	5583.	17.	0.	0.	.68	62.	20.4	C	17.2	4.8
25	2	1400.	0.	2164.	2164.	0.	2319.	2319.	3600.	0.	0.	0.	.64	62.	18.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES									MAX(V/C) = 0.92	LOWEST LOS = F	AVG = 53.	23.7		17.1	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	153. VEH-HRS	173. PASS-HRS	5285. VEH-HRS	5983. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	416. VEH-HRS	471. PASS-HRS	4627. VEH-HRS	5238. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	569. VEH-HRS	644. PASS-HRS	9942. VEH-HRS	11254. PASS-HRS
TOTAL TRAV DISTANCE =	8102. VEH-MI.	9172. PASS-MI.	199630. VEH-MI.	225981. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		38. MPH.	
AVERAGE DENSITY =	24. VPMPL		40. VPMPL	
TOTAL FUEL =	632. GALLONS		13883. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		1033. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1662.	416.16	157.62	2.42	14.89	2.60	19.91

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2356.	60.	2356.	2356.	60.	2356.	4400.	0.	0.	0.	.54	62.	19.0	C	13.6	4.8
2	2	1970.	0.	0.	2296.	0.	0.	2296.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
3	2	1830.	396.	76.	2692.	396.	76.	2692.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
4	2	2010.	0.	0.	2616.	0.	0.	2616.	4100.	0.	0.	0.	.64	62.	21.1	C	13.6	4.8
5	3	2445.	528.	356.	3144.	528.	356.	3144.	5600.	0.	0.	0.	.56	62.	16.9	B	13.6	4.8
6	2	1890.	0.	0.	2788.	0.	0.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
7	3	5320.	568.	548.	3356.	568.	548.	3356.	5600.	0.	0.	0.	.60	62.	18.0	C	13.6	4.8
8	2	880.	0.	0.	2808.	0.	0.	2808.	3900.	0.	0.	0.	.72	62.	22.6	C	14.9	4.8
9	2	1125.	224.	0.	3032.	224.	0.	3032.	3900.	0.	0.	0.	.78	62.	24.5	C	19.9	4.8
10	2	6320.	556.	264.	3588.	556.	264.	3588.	4100.	0.	0.	0.	.88	59.	30.5	D	21.2	3.3
11	2	2050.	0.	0.	3324.	0.	0.	3324.	4100.	0.	0.	0.	.81	61.	27.3	D	20.5	4.1
12	2	2560.	772.	0.	4096.	772.	0.	4096.	4400.	0.	0.	0.	.93	56.	36.4	E	19.0	2.7
13	2	1400.	0.	408.	4096.	0.	408.	4096.	4400.	0.	0.	0.	.93	56.	36.4	E	37.0	2.7
14	2	1320.	0.	0.	3688.	0.	0.	3688.	4400.	0.	0.	0.	.84	60.	30.7	D	15.5	3.7
15	3	540.	828.	1172.	4516.	828.	1172.	4516.	4988.	612.	0.	0.	.91	62.	24.3	C	12.6	4.8
16	2	1230.	0.	0.	3344.	0.	0.	3344.	4400.	0.	0.	0.	.76	62.	27.1	D	20.1	4.5
17	2	890.	708.	0.	4052.	708.	0.	4052.	4400.	0.	0.	0.	.92	57.	35.7	E	21.8	2.8
18	2	4840.	256.	680.	4308.	256.	680.	4308.	4400.	0.	0.	0.	.98	53.	40.5	E	19.7	2.4
19	2	530.	0.	0.	3628.	0.	0.	3628.	3800.	0.	0.	0.	.95	55.	33.1	D	22.4	2.4
20	2	1040.	556.	0.	4184.	556.	0.	4184.	4373.	27.	0.	0.	.96	55.	38.2	E	22.4	2.4
21	3	2810.	860.	1056.	5044.	860.	1056.	5044.	5078.	522.	0.	0.	.99	52.	32.3	D	30.0	2.3
22	2	1850.	0.	0.	3988.	0.	0.	3988.	4400.	0.	0.	0.	.91	58.	34.7	D	18.6	3.0
23	3	2390.	268.	124.	4256.	268.	124.	4256.	5536.	64.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1584.	4132.	0.	1500.	4132.	5577.	23.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2548.	2548.	0.	2548.	2548.	3600.	0.	0.	0.	.71	62.	20.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.99		LOWEST LOS = E	AVG = 59.	25.8		17.5	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	168. VEH-HRS	190. PASS-HRS	5453. VEH-HRS	6173. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	418. VEH-HRS	473. PASS-HRS	5045. VEH-HRS	5711. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	586. VEH-HRS	664. PASS-HRS	10528. VEH-HRS	11918. PASS-HRS
TOTAL TRAV DISTANCE =	9892. VEH-MI.	11197. PASS-MI.	209522. VEH-MI.	237179. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		38. MPH.	
AVERAGE DENSITY =	26. VPMPL		39. VPMPL	
TOTAL FUEL =	725. GALLONS		14607. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		1091. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1683.	418.25	158.41	2.43	14.97	2.61	20.01

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2164.	44.	2164.	2164.	44.	2164.	4400.	0.	0.	0.	.49	62.	17.5	B	13.6	4.8
2	2	1970.	0.	0.	2120.	0.	0.	2120.	4100.	0.	0.	0.	.52	62.	17.1	B	13.6	4.8
3	2	1830.	472.	52.	2592.	472.	52.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
4	2	2010.	0.	0.	2540.	0.	0.	2540.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
5	3	2445.	604.	328.	3144.	604.	328.	3144.	5574.	26.	0.	0.	.56	62.	16.9	B	13.6	4.8
6	2	1890.	0.	0.	2816.	0.	0.	2816.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
7	3	5320.	532.	476.	3348.	532.	476.	3348.	5600.	0.	0.	0.	.60	62.	18.0	B	13.6	4.8
8	2	880.	0.	0.	2872.	0.	0.	2872.	3900.	0.	0.	0.	.74	62.	23.2	C	14.9	4.8
9	2	1125.	208.	0.	3080.	208.	0.	3080.	3900.	0.	0.	0.	.79	62.	24.8	C	19.9	4.8
10	2	6320.	516.	280.	3596.	516.	280.	3596.	4100.	0.	0.	0.	.88	59.	30.6	D	21.2	3.3
11	2	2050.	0.	0.	3316.	0.	0.	3316.	4100.	0.	0.	0.	.81	61.	27.3	D	20.5	4.1
12	2	2560.	604.	0.	3920.	604.	0.	3920.	4400.	0.	0.	0.	.89	58.	33.7	D	18.4	3.2
13	2	1400.	0.	392.	3920.	0.	392.	3920.	4400.	0.	0.	0.	.89	58.	33.7	D	35.4	3.2
14	2	1320.	0.	0.	3528.	0.	0.	3528.	4400.	0.	0.	0.	.80	61.	28.9	D	15.2	4.2
15	3	540.	860.	1124.	4388.	860.	1124.	4388.	4960.	640.	0.	0.	.88	62.	23.6	C	12.6	4.8
16	2	1230.	0.	0.	3264.	0.	0.	3264.	4400.	0.	0.	0.	.74	62.	26.4	D	20.1	4.6
17	2	890.	692.	0.	3956.	692.	0.	3956.	4400.	0.	0.	0.	.90	58.	34.2	D	21.5	3.1
18	2	4840.	280.	536.	4236.	280.	536.	4170.	4400.	0.	* 395.	66.	.95	54.	38.6	F	19.4	2.4
19	2	530.	0.	0.	3700.	0.	0.	3634.	3800.	0.	** 530.	66.	.96	44.	40.9	F	22.1	2.6
20	2	1040.	556.	0.	4256.	556.	0.	4190.	4373.	27.	** 1040.	66.	.96	37.	56.0	F	21.7	2.8
21	3	2810.	876.	1068.	5132.	876.	1054.	5066.	5066.	534.	0.	0.	1.00	52.	32.8	E	30.3	2.3
22	2	1850.	0.	0.	4064.	0.	0.	4011.	4400.	0.	0.	0.	.91	57.	35.0	E	18.7	2.9
23	3	2390.	292.	124.	4356.	292.	123.	4303.	5532.	68.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1416.	4232.	0.	1500.	4181.	5575.	25.	0.	0.	.75	62.	22.5	C	17.2	4.8
25	2	1400.	0.	2816.	2816.	0.	2782.	2782.	3600.	0.	0.	0.	.77	62.	22.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	25.5		17.5	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	166. VEH-HRS	188. PASS-HRS	5620. VEH-HRS	6361. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	418. VEH-HRS	473. PASS-HRS	5463. VEH-HRS	6184. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	584. VEH-HRS	661. PASS-HRS	11112. VEH-HRS	12579. PASS-HRS
TOTAL TRAV DISTANCE =	9708. VEH-MI.	10990. PASS-MI.	219230. VEH-MI.	248168. PASS-MI.
AVERAGE SYSTEM SPEED =	17. MPH.		39. MPH.	
AVERAGE DENSITY =	26. VPMPL		38. VPMPL	
TOTAL FUEL =	714. GALLONS		15321. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		1149. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1658.	417.71	158.21	2.43	14.95	2.61	19.99

QUEUE CLEAR SECTION 20 T2 =0.224

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2120.	52.	2120.	2120.	52.	2120.	4400.	0.	0.	0.	.48	62.	17.1	B	13.6	4.8
2	2	1970.	0.	0.	2068.	0.	0.	2068.	4100.	0.	0.	0.	.50	62.	16.7	B	13.6	4.8
3	2	1830.	588.	112.	2656.	588.	112.	2656.	4087.	13.	0.	0.	.65	62.	21.4	C	13.6	4.8
4	2	2010.	0.	0.	2544.	0.	0.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
5	3	2445.	612.	376.	3156.	612.	376.	3156.	5539.	61.	0.	0.	.57	62.	17.0	B	13.6	4.8
6	2	1890.	0.	0.	2780.	0.	0.	2780.	4100.	0.	0.	0.	.68	62.	22.4	C	13.6	4.8
7	3	5320.	580.	516.	3360.	580.	516.	3360.	5600.	0.	0.	0.	.60	62.	18.1	C	13.6	4.8
8	2	880.	0.	0.	2844.	0.	0.	2844.	3900.	0.	0.	0.	.73	62.	22.9	C	14.9	4.8
9	2	1125.	196.	0.	3040.	196.	0.	3040.	3900.	0.	0.	0.	.78	62.	24.5	C	19.9	4.8
10	2	6320.	584.	316.	3624.	584.	316.	3624.	4100.	0.	0.	0.	.88	59.	31.0	D	21.3	3.3
11	2	2050.	0.	0.	3308.	0.	0.	3308.	4100.	0.	0.	0.	.81	61.	27.2	D	20.5	4.1
12	2	2560.	592.	0.	3900.	592.	0.	3900.	4400.	0.	0.	0.	.89	58.	33.4	D	18.4	3.2
13	2	1400.	0.	444.	3900.	0.	444.	3900.	4400.	0.	0.	0.	.89	58.	33.4	D	35.3	3.2
14	2	1320.	0.	0.	3456.	0.	0.	3456.	4400.	0.	0.	0.	.79	61.	28.2	D	15.1	4.4
15	3	540.	836.	1172.	4292.	836.	1172.	4292.	4992.	608.	0.	0.	.86	62.	23.1	C	12.6	4.8
16	2	1230.	0.	0.	3120.	0.	0.	3120.	4400.	0.	0.	0.	.71	62.	25.2	C	20.0	4.8
17	2	890.	692.	0.	3812.	692.	0.	3812.	4400.	0.	0.	0.	.87	59.	32.2	D	21.1	3.4
18	2	4840.	268.	612.	4080.	268.	612.	4080.	4400.	0.	0.	0.	.93	56.	36.3	E	18.9	2.8
19	2	530.	0.	0.	3468.	0.	0.	3468.	3800.	0.	0.	0.	.91	46.	38.0	E	21.4	3.0
20	2	1040.	576.	0.	4044.	576.	0.	4137.	4372.	28.	0.	-93.	.95	38.	54.8	F	21.3	3.0
21	3	2810.	884.	1204.	4928.	884.	1227.	5021.	5040.	560.	0.	0.	.99	52.	32.3	D	30.1	2.3
22	2	1850.	0.	0.	3724.	0.	0.	3794.	4400.	0.	0.	0.	.86	59.	32.0	D	18.2	3.5
23	3	2390.	244.	176.	3968.	244.	179.	4038.	5544.	56.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1492.	3792.	0.	1500.	3859.	5583.	17.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2300.	2300.	0.	2341.	2341.	3600.	0.	0.	0.	.65	62.	18.9	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 0.99 LOWEST LOS = F AVG = 59. 24.9 17.4 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	162. VEH-HRS	183. PASS-HRS	5782. VEH-HRS	6545. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	30. VEH-HRS	34. PASS-HRS
OFF-RAMP DELAY =	415. VEH-HRS	470. PASS-HRS	5878. VEH-HRS	6654. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	577. VEH-HRS	653. PASS-HRS	11689. VEH-HRS	13232. PASS-HRS
TOTAL TRAV DISTANCE =	9519. VEH-MI.	10775. PASS-MI.	228749. VEH-MI.	258944. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		40. MPH.	
AVERAGE DENSITY =	25. VPMPL		38. VPMPL	
TOTAL FUEL =	705. GALLONS		16026. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		1207. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1663.	415.13	157.23	2.42	14.85	2.59	19.86

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	132.	150.	15.	17.	147.	166.	8189.	9270.	55.7	499.	2.	27.	11.	6:00
2	165.	187.	44.	50.	209.	237.	9989.	11308.	47.8	607.	2.	29.	13.	6:15
3	216.	245.	74.	84.	290.	328.	11559.	13084.	39.9	705.	2.	28.	13.	6:30
4	250.	284.	109.	123.	359.	406.	11417.	12924.	31.8	724.	3.	30.	13.	6:45
5	245.	277.	146.	165.	390.	442.	9579.	10843.	24.5	629.	3.	31.	11.	7:00
6	250.	283.	172.	194.	422.	477.	10037.	11362.	23.8	645.	3.	30.	12.	7:15
7	283.	321.	178.	201.	461.	522.	10884.	12321.	23.6	720.	3.	34.	12.	7:30
8	305.	345.	186.	211.	491.	556.	10324.	11687.	21.0	704.	4.	35.	12.	7:45
9	343.	388.	205.	232.	548.	620.	10150.	11490.	18.5	725.	4.	38.	12.	8:00
10	347.	393.	221.	251.	569.	644.	10367.	11736.	18.2	742.	4.	39.	12.	8:15
11	364.	412.	241.	273.	606.	686.	9792.	11084.	16.2	728.	4.	40.	12.	8:30
12	316.	358.	263.	297.	579.	655.	10525.	11914.	18.2	746.	4.	39.	12.	8:45
13	303.	343.	284.	322.	587.	664.	10889.	12326.	18.6	773.	4.	39.	13.	9:00
14	328.	372.	303.	343.	631.	714.	10407.	11780.	16.5	769.	5.	41.	13.	9:15
15	323.	365.	317.	358.	639.	724.	10145.	11484.	15.9	754.	5.	41.	12.	9:30
16	287.	325.	332.	376.	619.	701.	9713.	10995.	15.7	714.	4.	39.	12.	9:45
17	262.	297.	356.	404.	619.	700.	9387.	10626.	15.2	698.	4.	39.	12.	10:00
18	224.	253.	387.	438.	611.	691.	9129.	10334.	15.0	684.	4.	39.	12.	10:15
19	188.	213.	409.	463.	597.	676.	9046.	10240.	15.1	688.	4.	40.	13.	10:30
20	153.	173.	416.	471.	569.	644.	8102.	9172.	14.2	632.	4.	39.	12.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	168.	190.	418.	473.	586.	664.	9892.	11197.	16.9	725.	4.	40.	14.	11:00
22	166.	188.	418.	473.	584.	661.	9708.	10990.	16.6	714.	4.	40.	14.	11:15
23	162.	183.	415.	470.	577.	653.	9519.	10775.	16.5	705.	4.	40.	14.	11:30
TOTAL	5782.	6545.	5908.	6687.	11689.	13232.	228749.	258944.	39.6	16026.	85.	837.	285.	

Horizon Year (2045) No Build
Northbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2240.	72.	2240.	2240.	72.	2240.	4100.	0.	0.	0.	.55	62.	18.1	C	13.6	4.8
2	2	1970.	0.	0.	2168.	0.	0.	2168.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
3	2	1830.	240.	112.	2408.	240.	112.	2408.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
4	2	2010.	0.	0.	2296.	0.	0.	2296.	4400.	0.	0.	0.	.52	62.	18.5	C	13.6	4.8
5	3	2445.	752.	368.	3048.	752.	368.	3048.	5503.	97.	0.	0.	.55	62.	16.4	B	13.6	4.8
6	2	1890.	0.	0.	2680.	0.	0.	2680.	4400.	0.	0.	0.	.61	62.	21.6	C	13.6	4.8
7	3	5320.	448.	588.	3128.	448.	588.	3128.	5600.	0.	0.	0.	.56	62.	16.8	B	13.6	4.8
8	2	880.	0.	0.	2540.	0.	0.	2540.	4400.	0.	0.	0.	.58	62.	20.5	C	14.9	4.8
9	2	1125.	192.	0.	2732.	192.	0.	2732.	4400.	0.	0.	0.	.62	62.	22.0	C	19.9	4.8
10	2	6320.	528.	364.	3260.	528.	364.	3260.	4250.	0.	0.	0.	.77	62.	26.5	D	20.2	4.5
11	2	2050.	0.	0.	2896.	0.	0.	2896.	4100.	0.	0.	0.	.71	62.	23.4	C	19.9	4.8
12	2	2560.	1104.	0.	4000.	1104.	0.	4000.	4400.	0.	0.	0.	.91	57.	34.8	D	18.7	3.0
13	2	1400.	0.	376.	4000.	0.	376.	4000.	4400.	0.	0.	0.	.91	57.	34.8	D	36.1	3.0
14	2	1320.	0.	0.	3624.	0.	0.	3624.	4400.	0.	0.	0.	.82	60.	30.0	D	15.4	3.9
15	3	540.	676.	1244.	4300.	676.	1244.	4300.	5120.	480.	0.	0.	.84	62.	23.1	C	12.6	4.8
16	2	1230.	0.	0.	3056.	0.	0.	3056.	4400.	0.	0.	0.	.69	62.	24.6	C	19.9	4.8
17	2	890.	612.	0.	3668.	612.	0.	3668.	4400.	0.	0.	0.	.83	60.	30.4	D	20.8	3.8
18	2	4840.	252.	696.	3920.	252.	696.	3920.	4400.	0.	0.	0.	.89	58.	33.7	D	18.4	3.2
19	2	530.	0.	0.	3224.	0.	0.	3224.	3800.	0.	0.	0.	.85	60.	27.0	D	21.0	3.6
20	2	1040.	364.	0.	3588.	364.	0.	3588.	4387.	13.	0.	0.	.82	61.	29.6	D	20.6	4.0
21	3	2810.	496.	704.	4084.	496.	704.	4084.	5558.	42.	0.	0.	.73	62.	22.0	C	24.1	4.8
22	2	1850.	0.	0.	3380.	0.	0.	3380.	4400.	0.	0.	0.	.77	62.	27.5	D	17.4	4.5
23	3	2390.	304.	96.	3684.	304.	96.	3684.	5536.	64.	0.	0.	.67	62.	19.8	C	24.1	4.8
24	3	960.	0.	1460.	3588.	0.	1460.	3588.	5581.	19.	0.	0.	.64	62.	19.3	C	17.2	4.8
25	2	1400.	0.	2128.	2128.	0.	2128.	2128.	3600.	0.	0.	0.	.59	62.	17.2	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.91		LOWEST LOS = D	AVG = 61.	23.7		17.4	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 1 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	132. VEH-HRS	164. PASS-HRS	132. VEH-HRS	164. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	132. VEH-HRS	164. PASS-HRS	132. VEH-HRS	164. PASS-HRS
TOTAL TRAV DISTANCE =	8014. VEH-MI.	9969. PASS-MI.	8014. VEH-MI.	9969. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		24. VPMPL	
TOTAL FUEL =	459. GALLONS		459. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		35. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2368.	60.	2368.	2368.	60.	2368.	4100.	0.	0.	0.	.58	62.	19.1	C	13.6	4.8
2	2	1970.	0.	0.	2308.	0.	0.	2308.	4100.	0.	0.	0.	.56	62.	18.6	C	13.6	4.8
3	2	1830.	392.	108.	2700.	392.	108.	2700.	4100.	0.	0.	0.	.66	62.	21.8	C	13.6	4.8
4	2	2010.	0.	0.	2592.	0.	0.	2592.	4400.	0.	0.	0.	.59	62.	20.9	C	13.6	4.8
5	3	2445.	444.	384.	3036.	444.	384.	3036.	5600.	0.	0.	0.	.54	62.	16.3	B	13.6	4.8
6	2	1890.	0.	0.	2652.	0.	0.	2652.	4400.	0.	0.	0.	.60	62.	21.4	C	13.6	4.8
7	3	5320.	524.	580.	3176.	524.	580.	3176.	5600.	0.	0.	0.	.57	62.	17.1	B	13.6	4.8
8	2	880.	0.	0.	2596.	0.	0.	2596.	4400.	0.	0.	0.	.59	62.	20.9	C	14.9	4.8
9	2	1125.	160.	0.	2756.	160.	0.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	19.9	4.8
10	2	6320.	572.	320.	3328.	572.	320.	3328.	4250.	0.	0.	0.	.78	61.	27.1	D	20.3	4.4
11	2	2050.	0.	0.	3008.	0.	0.	3008.	4100.	0.	0.	0.	.73	62.	24.3	C	19.9	4.8
12	2	2560.	1012.	0.	4020.	1012.	0.	4020.	4400.	0.	0.	0.	.91	57.	35.2	E	18.7	2.9
13	2	1400.	0.	468.	4020.	0.	468.	4020.	4400.	0.	0.	0.	.91	57.	35.2	E	36.2	2.9
14	2	1320.	0.	0.	3552.	0.	0.	3552.	4400.	0.	0.	0.	.81	61.	29.2	D	15.3	4.1
15	3	540.	844.	1208.	4396.	844.	1208.	4396.	4988.	612.	0.	0.	.88	62.	23.6	C	12.6	4.8
16	2	1230.	0.	0.	3188.	0.	0.	3188.	4400.	0.	0.	0.	.72	62.	25.8	C	20.0	4.7
17	2	890.	668.	0.	3856.	668.	0.	3856.	4400.	0.	0.	0.	.88	59.	32.8	D	21.2	3.3
18	2	4840.	288.	648.	4144.	288.	648.	4144.	4400.	0.	0.	0.	.94	56.	37.2	E	19.1	2.5
19	2	530.	0.	0.	3496.	0.	0.	3496.	3800.	0.	0.	0.	.92	57.	30.7	D	21.8	2.8
20	2	1040.	352.	0.	3848.	352.	0.	3848.	4385.	15.	0.	0.	.88	59.	32.7	D	21.3	3.3
21	3	2810.	536.	788.	4384.	536.	788.	4384.	5512.	88.	0.	0.	.80	62.	23.6	C	24.1	4.8
22	2	1850.	0.	0.	3596.	0.	0.	3596.	4400.	0.	0.	0.	.82	61.	29.7	D	17.7	4.0
23	3	2390.	316.	232.	3912.	316.	232.	3912.	5532.	68.	0.	0.	.71	62.	21.0	C	24.1	4.8
24	3	960.	0.	1480.	3680.	0.	1480.	3680.	5579.	21.	0.	0.	.66	62.	19.8	C	17.2	4.8
25	2	1400.	0.	2200.	2200.	0.	2200.	2200.	3600.	0.	0.	0.	.61	62.	17.7	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.94		LOWEST LOS = E	AVG = 60.	24.8		17.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	138. VEH-HRS	172. PASS-HRS	269. VEH-HRS	335. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	138. VEH-HRS	172. PASS-HRS	269. VEH-HRS	335. PASS-HRS
TOTAL TRAV DISTANCE =	8326. VEH-MI.	10358. PASS-MI.	16340. VEH-MI.	20327. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		24. VPMPL	
TOTAL FUEL =	474. GALLONS		933. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		69. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2592.	104.	2592.	2592.	104.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
2	2	1970.	0.	0.	2488.	0.	0.	2488.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
3	2	1830.	356.	132.	2844.	356.	132.	2844.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
4	2	2010.	0.	0.	2712.	0.	0.	2712.	4400.	0.	0.	0.	.62	62.	21.9	C	13.6	4.8
5	3	2445.	396.	364.	3108.	396.	364.	3108.	5600.	0.	0.	0.	.56	62.	16.7	B	13.6	4.8
6	2	1890.	0.	0.	2744.	0.	0.	2744.	4400.	0.	0.	0.	.62	62.	22.1	C	13.6	4.8
7	3	5320.	548.	452.	3292.	548.	452.	3292.	5600.	0.	0.	0.	.59	62.	17.7	B	13.6	4.8
8	2	880.	0.	0.	2840.	0.	0.	2840.	4400.	0.	0.	0.	.65	62.	22.9	C	14.9	4.8
9	2	1125.	180.	0.	3020.	180.	0.	3020.	4400.	0.	0.	0.	.69	62.	24.4	C	19.9	4.8
10	2	6320.	556.	300.	3576.	556.	300.	3576.	4250.	0.	0.	0.	.84	60.	29.8	D	20.9	3.6
11	2	2050.	0.	0.	3276.	0.	0.	3276.	4100.	0.	0.	0.	.80	61.	26.8	D	20.4	4.2
12	2	2560.	772.	0.	4048.	772.	0.	4048.	4400.	0.	0.	0.	.92	57.	35.6	E	18.8	2.8
13	2	1400.	0.	480.	4048.	0.	480.	4048.	4400.	0.	0.	0.	.92	57.	35.6	E	36.5	2.8
14	2	1320.	0.	0.	3568.	0.	0.	3568.	4400.	0.	0.	0.	.81	61.	29.4	D	15.3	4.1
15	3	540.	788.	1324.	4356.	788.	1324.	4356.	5052.	548.	0.	0.	.86	62.	23.4	C	12.6	4.8
16	2	1230.	0.	0.	3032.	0.	0.	3032.	4400.	0.	0.	0.	.69	62.	24.5	C	19.9	4.8
17	2	890.	628.	0.	3660.	628.	0.	3660.	4400.	0.	0.	0.	.83	60.	30.4	D	20.8	3.8
18	2	4840.	224.	716.	3884.	224.	716.	3884.	4400.	0.	0.	0.	.88	59.	33.2	D	18.3	3.3
19	2	530.	0.	0.	3168.	0.	0.	3168.	3800.	0.	0.	0.	.83	60.	26.3	D	20.8	3.8
20	2	1040.	384.	0.	3552.	384.	0.	3552.	4387.	13.	0.	0.	.81	61.	29.2	D	20.5	4.1
21	3	2810.	664.	708.	4216.	664.	708.	4216.	5503.	97.	0.	0.	.77	62.	22.7	C	24.1	4.8
22	2	1850.	0.	0.	3508.	0.	0.	3508.	4400.	0.	0.	0.	.80	61.	28.7	D	17.6	4.2
23	3	2390.	348.	104.	3856.	348.	104.	3856.	5523.	77.	0.	0.	.70	62.	20.7	C	24.1	4.8
24	3	960.	0.	1592.	3752.	0.	1500.	3752.	5577.	23.	0.	0.	.67	62.	20.2	C	17.2	4.8
25	2	1400.	0.	2160.	2160.	0.	2160.	2160.	3600.	0.	0.	0.	.60	62.	17.4	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.92		LOWEST LOS = E	AVG = 61.	25.1		17.5	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	173. PASS-HRS	409. VEH-HRS	508. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	3. VEH-HRS	4. PASS-HRS	3. VEH-HRS	4. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	177. PASS-HRS	411. VEH-HRS	512. PASS-HRS
TOTAL TRAV DISTANCE =	8443. VEH-MI.	10503. PASS-MI.	24783. VEH-MI.	30830. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		25. VPMPL	
TOTAL FUEL =	485. GALLONS		1418. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		105. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	23.	2.88	1.09	0.02	0.10	0.02	0.14

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2392.	108.	2392.	2392.	108.	2392.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
2	2	1970.	0.	0.	2284.	0.	0.	2284.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
3	2	1830.	276.	152.	2560.	276.	152.	2560.	4100.	0.	0.	0.	.62	62.	20.6	C	13.6	4.8
4	2	2010.	0.	0.	2408.	0.	0.	2408.	4400.	0.	0.	0.	.55	62.	19.4	C	13.6	4.8
5	3	2445.	524.	420.	2932.	524.	420.	2932.	5583.	17.	0.	0.	.53	62.	15.8	B	13.6	4.8
6	2	1890.	0.	0.	2512.	0.	0.	2512.	4400.	0.	0.	0.	.57	62.	20.3	C	13.6	4.8
7	3	5320.	536.	448.	3048.	536.	448.	3048.	5600.	0.	0.	0.	.54	62.	16.4	B	13.6	4.8
8	2	880.	0.	0.	2600.	0.	0.	2600.	4400.	0.	0.	0.	.59	62.	21.0	C	14.9	4.8
9	2	1125.	172.	0.	2772.	172.	0.	2772.	4400.	0.	0.	0.	.63	62.	22.4	C	19.9	4.8
10	2	6320.	480.	348.	3252.	480.	348.	3252.	4250.	0.	0.	0.	.77	62.	26.4	D	20.2	4.5
11	2	2050.	0.	0.	2904.	0.	0.	2904.	4100.	0.	0.	0.	.71	62.	23.4	C	19.9	4.8
12	2	2560.	740.	0.	3644.	740.	0.	3644.	4400.	0.	0.	0.	.83	60.	30.2	D	17.8	3.8
13	2	1400.	0.	452.	3644.	0.	452.	3644.	4400.	0.	0.	0.	.83	60.	30.2	D	33.7	3.8
14	2	1320.	0.	0.	3192.	0.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	14.9	4.7
15	3	540.	964.	1436.	4156.	964.	1436.	4156.	4968.	632.	0.	0.	.84	62.	22.3	C	12.6	4.8
16	2	1230.	0.	0.	2720.	0.	0.	2720.	4400.	0.	0.	0.	.62	62.	21.9	C	19.9	4.8
17	2	890.	564.	0.	3284.	564.	0.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	20.1	4.6
18	2	4840.	228.	800.	3512.	228.	800.	3512.	4400.	0.	0.	0.	.80	61.	28.8	D	17.6	4.2
19	2	530.	0.	0.	2712.	0.	0.	2712.	3800.	0.	0.	0.	.71	62.	21.9	C	19.9	4.8
20	2	1040.	452.	0.	3164.	452.	0.	3164.	4390.	10.	0.	0.	.72	62.	25.6	C	20.0	4.7
21	3	2810.	576.	800.	3740.	576.	800.	3740.	5506.	94.	0.	0.	.68	62.	20.1	C	24.1	4.8
22	2	1850.	0.	0.	2940.	0.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	17.2	4.8
23	3	2390.	588.	228.	3528.	588.	228.	3528.	5524.	76.	0.	0.	.64	62.	19.0	C	24.1	4.8
24	3	960.	0.	1616.	3300.	0.	1500.	3300.	5588.	12.	0.	0.	.59	62.	17.7	B	17.2	4.8
25	2	1400.	0.	1684.	1684.	0.	1684.	1684.	3600.	0.	0.	0.	.47	62.	13.6	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.84		LOWEST LOS = D	AVG = 62.	22.2		17.1	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	124. VEH-HRS	154. PASS-HRS	532. VEH-HRS	662. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	9. VEH-HRS	12. PASS-HRS	12. VEH-HRS	15. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	133. VEH-HRS	165. PASS-HRS	544. VEH-HRS	677. PASS-HRS
TOTAL TRAV DISTANCE =	7623. VEH-MI.	9483. PASS-MI.	32405. VEH-MI.	40312. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	448. GALLONS		1866. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		141. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	52.	9.38	3.55	0.05	0.34	0.06	0.45

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2496.	104.	2496.	2496.	104.	2496.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
2	2	1970.	0.	0.	2392.	0.	0.	2392.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
3	2	1830.	252.	200.	2644.	252.	200.	2644.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
4	2	2010.	0.	0.	2444.	0.	0.	2444.	4400.	0.	0.	0.	.56	62.	19.7	C	13.6	4.8
5	3	2445.	728.	316.	3172.	728.	316.	3172.	5527.	73.	0.	0.	.57	62.	17.1	B	13.6	4.8
6	2	1890.	0.	0.	2856.	0.	0.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	13.6	4.8
7	3	5320.	576.	624.	3432.	576.	624.	3432.	5600.	0.	0.	0.	.61	62.	18.5	C	13.6	4.8
8	2	880.	0.	0.	2808.	0.	0.	2808.	4400.	0.	0.	0.	.64	62.	22.6	C	14.9	4.8
9	2	1125.	216.	0.	3024.	216.	0.	3024.	4400.	0.	0.	0.	.69	62.	24.4	C	19.9	4.8
10	2	6320.	456.	360.	3480.	456.	360.	3480.	4250.	0.	0.	0.	.82	61.	28.7	D	20.6	4.0
11	2	2050.	0.	0.	3120.	0.	0.	3120.	4100.	0.	0.	0.	.76	62.	25.3	C	20.1	4.5
12	2	2560.	632.	0.	3752.	632.	0.	3752.	4400.	0.	0.	0.	.85	60.	31.4	D	18.1	3.5
13	2	1400.	0.	452.	3752.	0.	452.	3752.	4400.	0.	0.	0.	.85	60.	31.4	D	34.3	3.5
14	2	1320.	0.	0.	3300.	0.	0.	3300.	4400.	0.	0.	0.	.75	62.	26.7	D	15.0	4.6
15	3	540.	1048.	1168.	4348.	1048.	1168.	4348.	4832.	768.	0.	0.	.90	62.	23.4	C	12.6	4.8
16	2	1230.	0.	0.	3180.	0.	0.	3180.	4400.	0.	0.	0.	.72	62.	25.7	C	20.0	4.7
17	2	890.	520.	0.	3700.	520.	0.	3700.	4400.	0.	0.	0.	.84	60.	30.8	D	20.9	3.6
18	2	4840.	180.	692.	3880.	180.	692.	3880.	4400.	0.	0.	0.	.88	59.	33.1	D	18.3	3.3
19	2	530.	0.	0.	3188.	0.	0.	3188.	3800.	0.	0.	0.	.84	60.	26.5	D	20.9	3.7
20	2	1040.	364.	0.	3552.	364.	0.	3552.	4388.	12.	0.	0.	.81	61.	29.2	D	20.5	4.1
21	3	2810.	660.	688.	4212.	660.	688.	4212.	5505.	95.	0.	0.	.77	62.	22.6	C	24.1	4.8
22	2	1850.	0.	0.	3524.	0.	0.	3524.	4400.	0.	0.	0.	.80	61.	28.9	D	17.6	4.2
23	3	2390.	372.	168.	3896.	372.	168.	3896.	5520.	80.	0.	0.	.71	62.	20.9	C	24.1	4.8
24	3	960.	0.	1476.	3728.	0.	1500.	3728.	5576.	24.	0.	0.	.67	62.	20.0	C	17.2	4.8
25	2	1400.	0.	2252.	2252.	0.	2252.	2252.	3600.	0.	0.	0.	.63	62.	18.2	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.90		LOWEST LOS = D	AVG = 61.	24.5		17.4	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	170. PASS-HRS	669. VEH-HRS	832. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	12. VEH-HRS	15. PASS-HRS	25. VEH-HRS	30. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	185. PASS-HRS	693. VEH-HRS	862. PASS-HRS
TOTAL TRAV DISTANCE =	8331. VEH-MI.	10364. PASS-MI.	40736. VEH-MI.	50676. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		24. VPMPL	
TOTAL FUEL =	485. GALLONS		2351. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		177. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	46.	12.25	4.64	0.07	0.44	0.08	0.59

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2356.	108.	2356.	2356.	108.	2356.	4100.	0.	0.	0.	.57	62.	19.0	C	13.6	4.8
2	2	1970.	0.	0.	2248.	0.	0.	2248.	4100.	0.	0.	0.	.55	62.	18.1	C	13.6	4.8
3	2	1830.	260.	160.	2508.	260.	160.	2508.	4100.	0.	0.	0.	.61	62.	20.2	C	13.6	4.8
4	2	2010.	0.	0.	2348.	0.	0.	2348.	4400.	0.	0.	0.	.53	62.	18.9	C	13.6	4.8
5	3	2445.	608.	292.	2956.	608.	292.	2956.	5588.	12.	0.	0.	.53	62.	15.9	B	13.6	4.8
6	2	1890.	0.	0.	2664.	0.	0.	2664.	4400.	0.	0.	0.	.61	62.	21.5	C	13.6	4.8
7	3	5320.	420.	500.	3084.	420.	500.	3084.	5600.	0.	0.	0.	.55	62.	16.6	B	13.6	4.8
8	2	880.	0.	0.	2584.	0.	0.	2584.	4400.	0.	0.	0.	.59	62.	20.8	C	14.9	4.8
9	2	1125.	172.	0.	2756.	172.	0.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	19.9	4.8
10	2	6320.	392.	284.	3148.	392.	284.	3148.	4250.	0.	0.	0.	.74	62.	25.5	C	20.0	4.7
11	2	2050.	0.	0.	2864.	0.	0.	2864.	4100.	0.	0.	0.	.70	62.	23.1	C	19.9	4.8
12	2	2560.	808.	0.	3672.	808.	0.	3672.	4400.	0.	0.	0.	.83	60.	30.5	D	17.9	3.7
13	2	1400.	0.	416.	3672.	0.	416.	3672.	4400.	0.	0.	0.	.83	60.	30.5	D	33.9	3.7
14	2	1320.	0.	0.	3256.	0.	0.	3256.	4400.	0.	0.	0.	.74	62.	26.4	D	15.0	4.7
15	3	540.	892.	1260.	4148.	892.	1260.	4148.	4980.	620.	0.	0.	.83	62.	22.3	C	12.6	4.8
16	2	1230.	0.	0.	2888.	0.	0.	2888.	4400.	0.	0.	0.	.66	62.	23.3	C	19.9	4.8
17	2	890.	632.	0.	3520.	632.	0.	3520.	4400.	0.	0.	0.	.80	61.	28.9	D	20.4	4.2
18	2	4840.	204.	592.	3724.	204.	592.	3724.	4400.	0.	0.	0.	.85	60.	31.1	D	18.0	3.6
19	2	530.	0.	0.	3132.	0.	0.	3132.	3800.	0.	0.	0.	.82	60.	25.9	C	20.7	3.9
20	2	1040.	380.	0.	3512.	380.	0.	3512.	4388.	12.	0.	0.	.80	61.	28.8	D	20.4	4.2
21	3	2810.	652.	704.	4164.	652.	704.	4164.	5504.	96.	0.	0.	.76	62.	22.4	C	24.1	4.8
22	2	1850.	0.	0.	3460.	0.	0.	3460.	4400.	0.	0.	0.	.79	61.	28.2	D	17.5	4.3
23	3	2390.	324.	140.	3784.	324.	140.	3784.	5532.	68.	0.	0.	.68	62.	20.3	C	24.1	4.8
24	3	960.	0.	1572.	3644.	0.	1500.	3644.	5581.	19.	0.	0.	.65	62.	19.6	C	17.2	4.8
25	2	1400.	0.	2072.	2072.	0.	2072.	2072.	3600.	0.	0.	0.	.58	62.	16.7	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.85		LOWEST LOS = D	AVG = 61.	23.0		17.3	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	159. PASS-HRS	796. VEH-HRS	991. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	14. VEH-HRS	17. PASS-HRS	38. VEH-HRS	48. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	176. PASS-HRS	835. VEH-HRS	1038. PASS-HRS
TOTAL TRAV DISTANCE =	7869. VEH-MI.	9790. PASS-MI.	48606. VEH-MI.	60466. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		24. VPMPL	
TOTAL FUEL =	461. GALLONS		2811. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		213. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	64.	13.75	5.21	0.08	0.49	0.09	0.66

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2400.	156.	2400.	2400.	156.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
2	2	1970.	0.	0.	2244.	0.	0.	2244.	4100.	0.	0.	0.	.55	62.	18.1	C	13.6	4.8
3	2	1830.	248.	136.	2492.	248.	136.	2492.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
4	2	2010.	0.	0.	2356.	0.	0.	2356.	4400.	0.	0.	0.	.54	62.	19.0	C	13.6	4.8
5	3	2445.	708.	344.	3064.	708.	344.	3064.	5521.	79.	0.	0.	.55	62.	16.5	B	13.6	4.8
6	2	1890.	0.	0.	2720.	0.	0.	2720.	4400.	0.	0.	0.	.62	62.	21.9	C	13.6	4.8
7	3	5320.	476.	448.	3196.	476.	448.	3196.	5600.	0.	0.	0.	.57	62.	17.2	B	13.6	4.8
8	2	880.	0.	0.	2748.	0.	0.	2748.	4400.	0.	0.	0.	.62	62.	22.2	C	14.9	4.8
9	2	1125.	156.	0.	2904.	156.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	19.9	4.8
10	2	6320.	508.	272.	3412.	508.	272.	3412.	4250.	0.	0.	0.	.80	61.	28.0	D	20.4	4.2
11	2	2050.	0.	0.	3140.	0.	0.	3140.	4100.	0.	0.	0.	.77	62.	25.5	C	20.2	4.5
12	2	2560.	756.	0.	3896.	756.	0.	3896.	4400.	0.	0.	0.	.89	58.	33.3	D	18.4	3.2
13	2	1400.	0.	436.	3896.	0.	436.	3896.	4400.	0.	0.	0.	.89	58.	33.3	D	35.2	3.2
14	2	1320.	0.	0.	3460.	0.	0.	3460.	4400.	0.	0.	0.	.79	61.	28.2	D	15.2	4.3
15	3	540.	752.	1160.	4212.	752.	1160.	4212.	5056.	544.	0.	0.	.83	62.	22.6	C	12.6	4.8
16	2	1230.	0.	0.	3052.	0.	0.	3052.	4400.	0.	0.	0.	.69	62.	24.6	C	19.9	4.8
17	2	890.	612.	0.	3664.	612.	0.	3664.	4400.	0.	0.	0.	.83	60.	30.4	D	20.8	3.8
18	2	4840.	224.	476.	3888.	224.	476.	3888.	4400.	0.	0.	0.	.88	59.	33.2	D	18.4	3.3
19	2	530.	0.	0.	3412.	0.	0.	3412.	3800.	0.	0.	0.	.90	58.	29.5	D	21.5	3.1
20	2	1040.	380.	0.	3792.	380.	0.	3792.	4386.	14.	0.	0.	.86	59.	32.0	D	21.1	3.4
21	3	2810.	672.	756.	4464.	672.	756.	4464.	5444.	156.	0.	0.	.82	62.	24.0	C	24.1	4.8
22	2	1850.	0.	0.	3708.	0.	0.	3708.	4400.	0.	0.	0.	.84	60.	30.9	D	18.0	3.6
23	3	2390.	332.	144.	4040.	332.	144.	4040.	5522.	78.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1540.	3896.	0.	1500.	3896.	5574.	26.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	2356.	2356.	0.	2356.	2356.	3600.	0.	0.	0.	.65	62.	19.0	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.90		LOWEST LOS = D	AVG = 61.	24.5		17.5	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	169. PASS-HRS	933. VEH-HRS	1160. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	17. VEH-HRS	21. PASS-HRS	56. VEH-HRS	69. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	153. VEH-HRS	191. PASS-HRS	988. VEH-HRS	1229. PASS-HRS
TOTAL TRAV DISTANCE =	8293. VEH-MI.	10317. PASS-MI.	56899. VEH-MI.	70782. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		24. VPMPL	
TOTAL FUEL =	480. GALLONS		3292. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		250. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	74.	17.25	6.53	0.10	0.62	0.11	0.83

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2388.	108.	2388.	2388.	108.	2388.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
2	2	1970.	0.	0.	2280.	0.	0.	2280.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
3	2	1830.	304.	156.	2584.	304.	156.	2584.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
4	2	2010.	0.	0.	2428.	0.	0.	2428.	4400.	0.	0.	0.	.55	62.	19.6	C	13.6	4.8
5	3	2445.	596.	340.	3024.	596.	340.	3024.	5573.	27.	0.	0.	.54	62.	16.3	B	13.6	4.8
6	2	1890.	0.	0.	2684.	0.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	13.6	4.8
7	3	5320.	480.	528.	3164.	480.	528.	3164.	5600.	0.	0.	0.	.56	62.	17.0	B	13.6	4.8
8	2	880.	0.	0.	2636.	0.	0.	2636.	4400.	0.	0.	0.	.60	62.	21.3	C	14.9	4.8
9	2	1125.	156.	0.	2792.	156.	0.	2792.	4400.	0.	0.	0.	.63	62.	22.5	C	19.9	4.8
10	2	6320.	440.	320.	3232.	440.	320.	3232.	4250.	0.	0.	0.	.76	62.	26.2	D	20.1	4.5
11	2	2050.	0.	0.	2912.	0.	0.	2912.	4100.	0.	0.	0.	.71	62.	23.5	C	19.9	4.8
12	2	2560.	676.	0.	3588.	676.	0.	3588.	4400.	0.	0.	0.	.82	61.	29.6	D	17.7	4.0
13	2	1400.	0.	480.	3588.	0.	480.	3588.	4400.	0.	0.	0.	.82	61.	29.6	D	33.5	4.0
14	2	1320.	0.	0.	3108.	0.	0.	3108.	4400.	0.	0.	0.	.71	62.	25.1	C	14.9	4.8
15	3	540.	780.	1324.	3888.	780.	1324.	3888.	5084.	516.	0.	0.	.76	62.	20.9	C	12.6	4.8
16	2	1230.	0.	0.	2564.	0.	0.	2564.	4400.	0.	0.	0.	.58	62.	20.7	C	19.9	4.8
17	2	890.	464.	0.	3028.	464.	0.	3028.	4400.	0.	0.	0.	.69	62.	24.4	C	19.9	4.8
18	2	4840.	180.	628.	3208.	180.	628.	3208.	4400.	0.	0.	0.	.73	62.	25.9	C	17.2	4.7
19	2	530.	0.	0.	2580.	0.	0.	2580.	3800.	0.	0.	0.	.68	62.	20.8	C	19.9	4.8
20	2	1040.	380.	0.	2960.	380.	0.	2960.	4393.	7.	0.	0.	.67	62.	23.9	C	19.9	4.8
21	3	2810.	776.	640.	3736.	776.	640.	3736.	5491.	109.	0.	0.	.68	62.	20.1	C	24.1	4.8
22	2	1850.	0.	0.	3096.	0.	0.	3096.	4400.	0.	0.	0.	.70	62.	25.0	C	17.2	4.8
23	3	2390.	304.	228.	3400.	304.	228.	3400.	5565.	35.	0.	0.	.61	62.	18.3	C	24.1	4.8
24	3	960.	0.	1548.	3172.	0.	1500.	3172.	5596.	4.	0.	0.	.57	62.	17.1	B	17.2	4.8
25	2	1400.	0.	1624.	1624.	0.	1624.	1624.	3600.	0.	0.	0.	.45	62.	13.1	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.82 LOWEST LOS = D AVG = 62. 21.9 17.0 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	152. PASS-HRS	1055. VEH-HRS	1312. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	20. VEH-HRS	25. PASS-HRS	76. VEH-HRS	94. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	177. PASS-HRS	1130. VEH-HRS	1406. PASS-HRS
TOTAL TRAV DISTANCE =	7542. VEH-MI.	9382. PASS-MI.	64440. VEH-MI.	80164. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	450. GALLONS		3742. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		286. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	86.	20.00	7.58	0.12	0.72	0.12	0.96

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2632.	136.	2632.	2632.	136.	2632.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2496.	0.	0.	2496.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
3	2	1830.	288.	140.	2784.	288.	140.	2784.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
4	2	2010.	0.	0.	2644.	0.	0.	2644.	4400.	0.	0.	0.	.60	62.	21.3	C	13.6	4.8
5	3	2445.	444.	496.	3088.	444.	496.	3088.	5563.	37.	0.	0.	.56	62.	16.6	B	13.6	4.8
6	2	1890.	0.	0.	2592.	0.	0.	2592.	4400.	0.	0.	0.	.59	62.	20.9	C	13.6	4.8
7	3	5320.	392.	420.	2984.	392.	420.	2984.	5600.	0.	0.	0.	.53	62.	16.0	B	13.6	4.8
8	2	880.	0.	0.	2564.	0.	0.	2564.	4400.	0.	0.	0.	.58	62.	20.7	C	14.9	4.8
9	2	1125.	144.	0.	2708.	144.	0.	2708.	4400.	0.	0.	0.	.62	62.	21.8	C	19.9	4.8
10	2	6320.	364.	364.	3072.	364.	364.	3072.	4250.	0.	0.	0.	.72	62.	24.8	C	19.9	4.8
11	2	2050.	0.	0.	2708.	0.	0.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	19.9	4.8
12	2	2560.	812.	0.	3520.	812.	0.	3520.	4400.	0.	0.	0.	.80	61.	28.9	D	17.6	4.2
13	2	1400.	0.	432.	3520.	0.	432.	3520.	4400.	0.	0.	0.	.80	61.	28.9	D	33.2	4.2
14	2	1320.	0.	0.	3088.	0.	0.	3088.	4400.	0.	0.	0.	.70	62.	24.9	C	14.9	4.8
15	3	540.	568.	1104.	3656.	568.	1104.	3656.	5204.	396.	0.	0.	.70	62.	19.7	C	12.6	4.8
16	2	1230.	0.	0.	2552.	0.	0.	2552.	4400.	0.	0.	0.	.58	62.	20.6	C	19.9	4.8
17	2	890.	560.	0.	3112.	560.	0.	3112.	4400.	0.	0.	0.	.71	62.	25.1	C	20.0	4.8
18	2	4840.	164.	476.	3276.	164.	476.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	17.3	4.6
19	2	530.	0.	0.	2800.	0.	0.	2800.	3800.	0.	0.	0.	.74	62.	22.6	C	19.9	4.8
20	2	1040.	432.	0.	3232.	432.	0.	3232.	4388.	12.	0.	0.	.74	62.	26.1	D	20.0	4.7
21	3	2810.	596.	732.	3828.	596.	732.	3828.	5530.	70.	0.	0.	.69	62.	20.6	C	24.1	4.8
22	2	1850.	0.	0.	3096.	0.	0.	3096.	4400.	0.	0.	0.	.70	62.	25.0	C	17.2	4.8
23	3	2390.	336.	168.	3432.	336.	168.	3432.	5549.	51.	0.	0.	.62	62.	18.5	C	24.1	4.8
24	3	960.	0.	1460.	3264.	0.	1500.	3264.	5590.	10.	0.	0.	.58	62.	17.5	B	17.2	4.8
25	2	1400.	0.	1804.	1804.	0.	1804.	1804.	3600.	0.	0.	0.	.50	62.	14.5	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 62.	22.0		17.0	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	152. PASS-HRS	1177. VEH-HRS	1464. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	20. VEH-HRS	25. PASS-HRS	96. VEH-HRS	119. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	143. VEH-HRS	177. PASS-HRS	1273. VEH-HRS	1583. PASS-HRS
TOTAL TRAV DISTANCE =	7567. VEH-MI.	9413. PASS-MI.	72007. VEH-MI.	89577. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		24. VPMPL	
TOTAL FUEL =	453. GALLONS		4195. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		322. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	76.	20.25	7.67	0.12	0.72	0.13	0.97

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2460.	100.	2460.	2460.	100.	2460.	4100.	0.	0.	0.	.60	62.	19.8	C	13.6	4.8
2	2	1970.	0.	0.	2360.	0.	0.	2360.	4100.	0.	0.	0.	.58	62.	19.0	C	13.6	4.8
3	2	1830.	264.	156.	2624.	264.	156.	2624.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
4	2	2010.	0.	0.	2468.	0.	0.	2468.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
5	3	2445.	648.	488.	3116.	648.	488.	3116.	5464.	136.	0.	0.	.57	62.	16.8	B	13.6	4.8
6	2	1890.	0.	0.	2628.	0.	0.	2628.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
7	3	5320.	384.	480.	3012.	384.	480.	3012.	5600.	0.	0.	0.	.54	62.	16.2	B	13.6	4.8
8	2	880.	0.	0.	2532.	0.	0.	2532.	4400.	0.	0.	0.	.58	62.	20.4	C	14.9	4.8
9	2	1125.	156.	0.	2688.	156.	0.	2688.	4400.	0.	0.	0.	.61	62.	21.7	C	19.9	4.8
10	2	6320.	432.	412.	3120.	432.	412.	3120.	4250.	0.	0.	0.	.73	62.	25.2	C	20.0	4.7
11	2	2050.	0.	0.	2708.	0.	0.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	19.9	4.8
12	2	2560.	628.	0.	3336.	628.	0.	3336.	4400.	0.	0.	0.	.76	62.	27.1	D	17.3	4.6
13	2	1400.	0.	472.	3336.	0.	472.	3336.	4400.	0.	0.	0.	.76	62.	27.1	D	32.6	4.6
14	2	1320.	0.	0.	2864.	0.	0.	2864.	4400.	0.	0.	0.	.65	62.	23.1	C	14.9	4.8
15	3	540.	604.	1284.	3468.	604.	1284.	3468.	5220.	380.	0.	0.	.66	62.	18.6	C	12.6	4.8
16	2	1230.	0.	0.	2184.	0.	0.	2184.	4400.	0.	0.	0.	.50	62.	17.6	B	19.9	4.8
17	2	890.	512.	0.	2696.	512.	0.	2696.	4400.	0.	0.	0.	.61	62.	21.7	C	19.9	4.8
18	2	4840.	220.	532.	2916.	220.	532.	2916.	4400.	0.	0.	0.	.66	62.	23.5	C	17.2	4.8
19	2	530.	0.	0.	2384.	0.	0.	2384.	3800.	0.	0.	0.	.63	62.	19.2	C	19.9	4.8
20	2	1040.	372.	0.	2756.	372.	0.	2756.	4396.	4.	0.	0.	.63	62.	22.2	C	19.9	4.8
21	3	2810.	648.	700.	3404.	648.	700.	3404.	5572.	28.	0.	0.	.61	62.	18.3	C	24.1	4.8
22	2	1850.	0.	0.	2704.	0.	0.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	17.2	4.8
23	3	2390.	248.	152.	2952.	248.	152.	2952.	5600.	0.	0.	0.	.53	62.	15.9	B	24.1	4.8
24	3	960.	0.	1516.	2800.	0.	1500.	2800.	5600.	0.	0.	0.	.50	62.	15.1	B	17.2	4.8
25	2	1400.	0.	1284.	1284.	0.	1284.	1284.	3600.	0.	0.	0.	.36	62.	10.4	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.76		LOWEST LOS = D	AVG = 62.	20.6		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	143. PASS-HRS	1292. VEH-HRS	1607. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	19. VEH-HRS	24. PASS-HRS	115. VEH-HRS	143. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	167. PASS-HRS	1407. VEH-HRS	1750. PASS-HRS
TOTAL TRAV DISTANCE =	7112. VEH-MI.	8848. PASS-MI.	79120. VEH-MI.	98425. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		23. VPMPL	
TOTAL FUEL =	429. GALLONS		4624. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		357. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	80.	19.50	7.39	0.11	0.70	0.12	0.93

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2676.	112.	2676.	2676.	112.	2676.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
2	2	1970.	0.	0.	2564.	0.	0.	2564.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
3	2	1830.	268.	140.	2832.	268.	140.	2832.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
4	2	2010.	0.	0.	2692.	0.	0.	2692.	4400.	0.	0.	0.	.61	62.	21.7	C	13.6	4.8
5	3	2445.	612.	460.	3304.	612.	460.	3304.	5487.	113.	0.	0.	.60	62.	17.8	B	13.6	4.8
6	2	1890.	0.	0.	2844.	0.	0.	2844.	4400.	0.	0.	0.	.65	62.	22.9	C	13.6	4.8
7	3	5320.	324.	464.	3168.	324.	464.	3168.	5600.	0.	0.	0.	.57	62.	17.0	B	13.6	4.8
8	2	880.	0.	0.	2704.	0.	0.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	14.9	4.8
9	2	1125.	128.	0.	2832.	128.	0.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	19.9	4.8
10	2	6320.	408.	380.	3240.	408.	380.	3240.	4250.	0.	0.	0.	.76	62.	26.3	D	20.1	4.5
11	2	2050.	0.	0.	2860.	0.	0.	2860.	4100.	0.	0.	0.	.70	62.	23.1	C	19.9	4.8
12	2	2560.	668.	0.	3528.	668.	0.	3528.	4400.	0.	0.	0.	.80	61.	28.9	D	17.6	4.2
13	2	1400.	0.	424.	3528.	0.	424.	3528.	4400.	0.	0.	0.	.80	61.	28.9	D	33.2	4.2
14	2	1320.	0.	0.	3104.	0.	0.	3104.	4400.	0.	0.	0.	.71	62.	25.1	C	14.9	4.8
15	3	540.	520.	1152.	3624.	520.	1152.	3624.	5244.	356.	0.	0.	.69	62.	19.5	C	12.6	4.8
16	2	1230.	0.	0.	2472.	0.	0.	2472.	4400.	0.	0.	0.	.56	62.	19.9	C	19.9	4.8
17	2	890.	544.	0.	3016.	544.	0.	3016.	4400.	0.	0.	0.	.69	62.	24.3	C	19.9	4.8
18	2	4840.	220.	536.	3236.	220.	536.	3236.	4400.	0.	0.	0.	.74	62.	26.2	D	17.3	4.7
19	2	530.	0.	0.	2700.	0.	0.	2700.	3800.	0.	0.	0.	.71	62.	21.8	C	19.9	4.8
20	2	1040.	444.	0.	3144.	444.	0.	3144.	4390.	10.	0.	0.	.72	62.	25.4	C	20.0	4.7
21	3	2810.	620.	824.	3764.	620.	824.	3764.	5478.	122.	0.	0.	.69	62.	20.2	C	24.1	4.8
22	2	1850.	0.	0.	2940.	0.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	17.2	4.8
23	3	2390.	304.	172.	3244.	304.	172.	3244.	5579.	21.	0.	0.	.58	62.	17.4	B	24.1	4.8
24	3	960.	0.	1576.	3072.	0.	1500.	3072.	5600.	0.	0.	0.	.55	62.	16.5	B	17.2	4.8
25	2	1400.	0.	1496.	1496.	0.	1496.	1496.	3600.	0.	0.	0.	.42	62.	12.1	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 62.	22.3		16.9	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	124. VEH-HRS	154. PASS-HRS	1416. VEH-HRS	1761. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	22. VEH-HRS	28. PASS-HRS	138. VEH-HRS	171. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	146. VEH-HRS	182. PASS-HRS	1553. VEH-HRS	1932. PASS-HRS
TOTAL TRAV DISTANCE =	7665. VEH-MI.	9535. PASS-MI.	86784. VEH-MI.	107960. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		23. VPMPL	
TOTAL FUEL =	461. GALLONS		5085. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		394. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	99.	22.37	8.47	0.13	0.80	0.14	1.07

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2488.	104.	2488.	2488.	104.	2488.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
2	2	1970.	0.	0.	2384.	0.	0.	2384.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
3	2	1830.	272.	192.	2656.	272.	192.	2656.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
4	2	2010.	0.	0.	2464.	0.	0.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
5	3	2445.	560.	492.	3024.	560.	492.	3024.	5500.	100.	0.	0.	.55	62.	16.3	B	13.6	4.8
6	2	1890.	0.	0.	2532.	0.	0.	2532.	4400.	0.	0.	0.	.58	62.	20.4	C	13.6	4.8
7	3	5320.	400.	520.	2932.	400.	520.	2932.	5600.	0.	0.	0.	.52	62.	15.8	B	13.6	4.8
8	2	880.	0.	0.	2412.	0.	0.	2412.	4400.	0.	0.	0.	.55	62.	19.5	C	14.9	4.8
9	2	1125.	140.	0.	2552.	140.	0.	2552.	4400.	0.	0.	0.	.58	62.	20.6	C	19.9	4.8
10	2	6320.	468.	340.	3020.	468.	340.	3020.	4250.	0.	0.	0.	.71	62.	24.4	C	19.9	4.8
11	2	2050.	0.	0.	2680.	0.	0.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	19.9	4.8
12	2	2560.	748.	0.	3428.	748.	0.	3428.	4400.	0.	0.	0.	.78	61.	27.9	D	17.4	4.4
13	2	1400.	0.	520.	3428.	0.	520.	3428.	4400.	0.	0.	0.	.78	61.	27.9	D	32.8	4.4
14	2	1320.	0.	0.	2908.	0.	0.	2908.	4400.	0.	0.	0.	.66	62.	23.5	C	14.9	4.8
15	3	540.	544.	1176.	3452.	544.	1176.	3452.	5240.	360.	0.	0.	.66	62.	18.6	C	12.6	4.8
16	2	1230.	0.	0.	2276.	0.	0.	2276.	4400.	0.	0.	0.	.52	62.	18.4	C	19.9	4.8
17	2	890.	536.	0.	2812.	536.	0.	2812.	4400.	0.	0.	0.	.64	62.	22.7	C	19.9	4.8
18	2	4840.	116.	444.	2928.	116.	444.	2928.	4400.	0.	0.	0.	.67	62.	23.6	C	17.2	4.8
19	2	530.	0.	0.	2484.	0.	0.	2484.	3800.	0.	0.	0.	.65	62.	20.0	C	19.9	4.8
20	2	1040.	416.	0.	2900.	416.	0.	2900.	4394.	6.	0.	0.	.66	62.	23.4	C	19.9	4.8
21	3	2810.	728.	808.	3628.	728.	808.	3628.	5450.	150.	0.	0.	.67	62.	19.5	C	24.1	4.8
22	2	1850.	0.	0.	2820.	0.	0.	2820.	4400.	0.	0.	0.	.64	62.	22.7	C	17.2	4.8
23	3	2390.	340.	164.	3160.	340.	164.	3160.	5600.	0.	0.	0.	.56	62.	17.0	B	24.1	4.8
24	3	960.	0.	1748.	2996.	0.	1500.	2996.	5600.	0.	0.	0.	.53	62.	16.1	B	17.2	4.8
25	2	1400.	0.	1248.	1248.	0.	1248.	1248.	3600.	0.	0.	0.	.35	62.	10.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.78		LOWEST LOS = D	AVG = 62.	20.7		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	144. PASS-HRS	1531. VEH-HRS	1905. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	32. VEH-HRS	40. PASS-HRS	170. VEH-HRS	212. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	148. VEH-HRS	184. PASS-HRS	1701. VEH-HRS	2116. PASS-HRS
TOTAL TRAV DISTANCE =	7149. VEH-MI.	8894. PASS-MI.	93934. VEH-MI.	116853. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		23. VPMPL	
TOTAL FUEL =	435. GALLONS		5520. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		430. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	161.	32.50	12.31	0.19	1.16	0.20	1.55

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2644.	164.	2644.	2644.	164.	2644.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
2	2	1970.	0.	0.	2480.	0.	0.	2480.	4100.	0.	0.	0.	.60	62.	20.0	C	13.6	4.8
3	2	1830.	320.	156.	2800.	320.	156.	2800.	4100.	0.	0.	0.	.68	62.	22.6	C	13.6	4.8
4	2	2010.	0.	0.	2644.	0.	0.	2644.	4400.	0.	0.	0.	.60	62.	21.3	C	13.6	4.8
5	3	2445.	456.	536.	3100.	456.	536.	3100.	5544.	56.	0.	0.	.56	62.	16.7	B	13.6	4.8
6	2	1890.	0.	0.	2564.	0.	0.	2564.	4400.	0.	0.	0.	.58	62.	20.7	C	13.6	4.8
7	3	5320.	540.	496.	3104.	540.	496.	3104.	5600.	0.	0.	0.	.55	62.	16.7	B	13.6	4.8
8	2	880.	0.	0.	2608.	0.	0.	2608.	4400.	0.	0.	0.	.59	62.	21.0	C	14.9	4.8
9	2	1125.	224.	0.	2832.	224.	0.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	19.9	4.8
10	2	6320.	520.	468.	3352.	520.	468.	3352.	4250.	0.	0.	0.	.79	61.	27.4	D	20.3	4.3
11	2	2050.	0.	0.	2884.	0.	0.	2884.	4100.	0.	0.	0.	.70	62.	23.3	C	19.9	4.8
12	2	2560.	732.	0.	3616.	732.	0.	3616.	4400.	0.	0.	0.	.82	61.	29.9	D	17.8	3.9
13	2	1400.	0.	452.	3616.	0.	452.	3616.	4400.	0.	0.	0.	.82	61.	29.9	D	33.6	3.9
14	2	1320.	0.	0.	3164.	0.	0.	3164.	4400.	0.	0.	0.	.72	62.	25.6	C	14.9	4.7
15	3	540.	752.	1228.	3916.	752.	1228.	3916.	5084.	516.	0.	0.	.77	62.	21.1	C	12.6	4.8
16	2	1230.	0.	0.	2688.	0.	0.	2688.	4400.	0.	0.	0.	.61	62.	21.7	C	19.9	4.8
17	2	890.	648.	0.	3336.	648.	0.	3336.	4400.	0.	0.	0.	.76	62.	27.1	D	20.1	4.6
18	2	4840.	168.	464.	3504.	168.	464.	3504.	4400.	0.	0.	0.	.80	61.	28.7	D	17.5	4.2
19	2	530.	0.	0.	3040.	0.	0.	3040.	3800.	0.	0.	0.	.80	62.	24.5	C	19.9	4.8
20	2	1040.	500.	0.	3540.	500.	0.	3540.	4382.	18.	0.	0.	.81	61.	29.1	D	20.5	4.1
21	3	2810.	792.	856.	4332.	792.	856.	4332.	5284.	316.	0.	0.	.82	62.	23.3	C	24.1	4.8
22	2	1850.	0.	0.	3476.	0.	0.	3476.	4400.	0.	0.	0.	.79	61.	28.4	D	17.5	4.3
23	3	2390.	396.	132.	3872.	396.	132.	3872.	5512.	88.	0.	0.	.70	62.	20.8	C	24.1	4.8
24	3	960.	0.	1724.	3740.	0.	1500.	3740.	5577.	23.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	2016.	2016.	0.	2016.	2016.	3600.	0.	0.	0.	.56	62.	16.3	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.82		LOWEST LOS = D	AVG = 62.	23.3		17.2	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	162. PASS-HRS	1661. VEH-HRS	2067. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	47. VEH-HRS	59. PASS-HRS	217. VEH-HRS	270. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	177. VEH-HRS	221. PASS-HRS	1879. VEH-HRS	2337. PASS-HRS
TOTAL TRAV DISTANCE =	8013. VEH-MI.	9968. PASS-MI.	101947. VEH-MI.	126822. PASS-MI.
AVERAGE SYSTEM SPEED =	45. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		23. VPMPL	
TOTAL FUEL =	484. GALLONS		6004. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		468. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	217.	47.25	17.90	0.27	1.69	0.30	2.26

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2808.	148.	2808.	2808.	148.	2808.	4100.	0.	0.	0.	.68	62.	22.6	C	13.6	4.8
2	2	1970.	0.	0.	2660.	0.	0.	2660.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
3	2	1830.	356.	240.	3016.	356.	240.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	13.6	4.8
4	2	2010.	0.	0.	2776.	0.	0.	2776.	4400.	0.	0.	0.	.63	62.	22.4	C	13.6	4.8
5	3	2445.	540.	616.	3316.	540.	616.	3316.	5424.	176.	0.	0.	.61	62.	17.8	B	13.6	4.8
6	2	1890.	0.	0.	2700.	0.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	13.6	4.8
7	3	5320.	496.	728.	3196.	496.	728.	3196.	5600.	0.	0.	0.	.57	62.	17.2	B	13.6	4.8
8	2	880.	0.	0.	2468.	0.	0.	2468.	4400.	0.	0.	0.	.56	62.	19.9	C	14.9	4.8
9	2	1125.	124.	0.	2592.	124.	0.	2592.	4400.	0.	0.	0.	.59	62.	20.9	C	19.9	4.8
10	2	6320.	420.	484.	3012.	420.	484.	3012.	4250.	0.	0.	0.	.71	62.	24.3	C	19.9	4.8
11	2	2050.	0.	0.	2528.	0.	0.	2528.	4100.	0.	0.	0.	.62	62.	20.4	C	19.9	4.8
12	2	2560.	676.	0.	3204.	676.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	17.2	4.7
13	2	1400.	0.	628.	3204.	0.	628.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	32.4	4.7
14	2	1320.	0.	0.	2576.	0.	0.	2576.	4400.	0.	0.	0.	.59	62.	20.8	C	14.9	4.8
15	3	540.	780.	1256.	3356.	780.	1256.	3356.	5112.	488.	0.	0.	.66	62.	18.0	C	12.6	4.8
16	2	1230.	0.	0.	2100.	0.	0.	2100.	4400.	0.	0.	0.	.48	62.	16.9	B	19.9	4.8
17	2	890.	576.	0.	2676.	576.	0.	2676.	4400.	0.	0.	0.	.61	62.	21.6	C	19.9	4.8
18	2	4840.	156.	440.	2832.	156.	440.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	17.2	4.8
19	2	530.	0.	0.	2392.	0.	0.	2392.	3800.	0.	0.	0.	.63	62.	19.3	C	19.9	4.8
20	2	1040.	424.	0.	2816.	424.	0.	2816.	4396.	4.	0.	0.	.64	62.	22.7	C	19.9	4.8
21	3	2810.	700.	884.	3516.	700.	884.	3516.	5434.	166.	0.	0.	.65	62.	18.9	C	24.1	4.8
22	2	1850.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	17.2	4.8
23	3	2390.	356.	180.	2988.	356.	180.	2988.	5600.	0.	0.	0.	.53	62.	16.1	B	24.1	4.8
24	3	960.	0.	1712.	2808.	0.	1500.	2808.	5600.	0.	0.	0.	.50	62.	15.1	B	17.2	4.8
25	2	1400.	0.	1096.	1096.	0.	1096.	1096.	3600.	0.	0.	0.	.30	62.	8.8	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.74		LOWEST LOS = C	AVG = 62.	20.8		16.7	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	116. VEH-HRS	145. PASS-HRS	1778. VEH-HRS	2211. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	61. VEH-HRS	76. PASS-HRS	278. VEH-HRS	346. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	177. VEH-HRS	220. PASS-HRS	2056. VEH-HRS	2557. PASS-HRS
TOTAL TRAV DISTANCE =	7211. VEH-MI.	8970. PASS-MI.	109158. VEH-MI.	135792. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		23. VPMPL	
TOTAL FUEL =	454. GALLONS		6458. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		506. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	270.	60.87	23.06	0.35	2.18	0.38	2.91

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2380.	132.	2380.	2380.	132.	2380.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
2	2	1970.	0.	0.	2248.	0.	0.	2248.	4100.	0.	0.	0.	.55	62.	18.1	C	13.6	4.8
3	2	1830.	324.	220.	2572.	324.	220.	2572.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
4	2	2010.	0.	0.	2352.	0.	0.	2352.	4400.	0.	0.	0.	.53	62.	19.0	C	13.6	4.8
5	3	2445.	740.	416.	3092.	740.	416.	3092.	5474.	126.	0.	0.	.56	62.	16.6	B	13.6	4.8
6	2	1890.	0.	0.	2676.	0.	0.	2676.	4400.	0.	0.	0.	.61	62.	21.6	C	13.6	4.8
7	3	5320.	476.	668.	3152.	476.	668.	3152.	5600.	0.	0.	0.	.56	62.	16.9	B	13.6	4.8
8	2	880.	0.	0.	2484.	0.	0.	2484.	4400.	0.	0.	0.	.56	62.	20.0	C	14.9	4.8
9	2	1125.	144.	0.	2628.	144.	0.	2628.	4400.	0.	0.	0.	.60	62.	21.2	C	19.9	4.8
10	2	6320.	404.	364.	3032.	404.	364.	3032.	4250.	0.	0.	0.	.71	62.	24.5	C	19.9	4.8
11	2	2050.	0.	0.	2668.	0.	0.	2668.	4100.	0.	0.	0.	.65	62.	21.5	C	19.9	4.8
12	2	2560.	652.	0.	3320.	652.	0.	3320.	4400.	0.	0.	0.	.75	62.	26.9	D	17.3	4.6
13	2	1400.	0.	380.	3320.	0.	380.	3320.	4400.	0.	0.	0.	.75	62.	26.9	D	32.6	4.6
14	2	1320.	0.	0.	2940.	0.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	14.9	4.8
15	3	540.	712.	1212.	3652.	712.	1212.	3652.	5124.	476.	0.	0.	.71	62.	19.6	C	12.6	4.8
16	2	1230.	0.	0.	2440.	0.	0.	2440.	4400.	0.	0.	0.	.55	62.	19.7	C	19.9	4.8
17	2	890.	436.	0.	2876.	436.	0.	2876.	4400.	0.	0.	0.	.65	62.	23.2	C	19.9	4.8
18	2	4840.	164.	368.	3040.	164.	368.	3040.	4400.	0.	0.	0.	.69	62.	24.5	C	17.2	4.8
19	2	530.	0.	0.	2672.	0.	0.	2672.	3800.	0.	0.	0.	.70	62.	21.5	C	19.9	4.8
20	2	1040.	504.	0.	3176.	504.	0.	3176.	4390.	10.	0.	0.	.72	62.	25.7	C	20.0	4.7
21	3	2810.	544.	1100.	3720.	544.	1100.	3720.	5406.	194.	0.	0.	.69	62.	20.0	C	24.1	4.8
22	2	1850.	0.	0.	2620.	0.	0.	2620.	4400.	0.	0.	0.	.60	62.	21.1	C	17.2	4.8
23	3	2390.	356.	164.	2976.	356.	164.	2976.	5600.	0.	0.	0.	.53	62.	16.0	B	24.1	4.8
24	3	960.	0.	1544.	2812.	0.	1500.	2812.	5600.	0.	0.	0.	.50	62.	15.1	B	17.2	4.8
25	2	1400.	0.	1268.	1268.	0.	1268.	1268.	3600.	0.	0.	0.	.35	62.	10.2	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.75 LOWEST LOS = D AVG = 62. 20.8 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	116. VEH-HRS	144. PASS-HRS	1894. VEH-HRS	2356. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	69. VEH-HRS	86. PASS-HRS	347. VEH-HRS	432. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	185. VEH-HRS	230. PASS-HRS	2241. VEH-HRS	2788. PASS-HRS
TOTAL TRAV DISTANCE =	7197. VEH-MI.	8953. PASS-MI.	116354. VEH-MI.	144745. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		23. VPMPL	
TOTAL FUEL =	452. GALLONS		6910. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		543. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	281.	68.87	26.09	0.40	2.46	0.43	3.30

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2140.	136.	2140.	2140.	136.	2140.	4100.	0.	0.	0.	.52	62.	17.3	B	13.6	4.8
2	2	1970.	0.	0.	2004.	0.	0.	2004.	4100.	0.	0.	0.	.49	62.	16.2	B	13.6	4.8
3	2	1830.	268.	160.	2272.	268.	160.	2272.	4100.	0.	0.	0.	.55	62.	18.3	C	13.6	4.8
4	2	2010.	0.	0.	2112.	0.	0.	2112.	4400.	0.	0.	0.	.48	62.	17.0	B	13.6	4.8
5	3	2445.	680.	456.	2792.	680.	456.	2792.	5497.	103.	0.	0.	.51	62.	15.0	B	13.6	4.8
6	2	1890.	0.	0.	2336.	0.	0.	2336.	4400.	0.	0.	0.	.53	62.	18.8	C	13.6	4.8
7	3	5320.	376.	664.	2712.	376.	664.	2712.	5600.	0.	0.	0.	.48	62.	14.6	B	13.6	4.8
8	2	880.	0.	0.	2048.	0.	0.	2048.	4400.	0.	0.	0.	.47	62.	16.5	B	14.9	4.8
9	2	1125.	108.	0.	2156.	108.	0.	2156.	4400.	0.	0.	0.	.49	62.	17.4	B	19.9	4.8
10	2	6320.	404.	460.	2560.	404.	460.	2560.	4250.	0.	0.	0.	.60	62.	20.6	C	19.9	4.8
11	2	2050.	0.	0.	2100.	0.	0.	2100.	4100.	0.	0.	0.	.51	62.	16.9	B	19.9	4.8
12	2	2560.	676.	0.	2776.	676.	0.	2776.	4400.	0.	0.	0.	.63	62.	22.4	C	17.2	4.8
13	2	1400.	0.	396.	2776.	0.	396.	2776.	4400.	0.	0.	0.	.63	62.	22.4	C	32.3	4.8
14	2	1320.	0.	0.	2380.	0.	0.	2380.	4400.	0.	0.	0.	.54	62.	19.2	C	14.9	4.8
15	3	540.	708.	1236.	3088.	708.	1236.	3088.	5176.	424.	0.	0.	.60	62.	16.6	B	12.6	4.8
16	2	1230.	0.	0.	1852.	0.	0.	1852.	4400.	0.	0.	0.	.42	62.	14.9	B	19.9	4.8
17	2	890.	600.	0.	2452.	600.	0.	2452.	4400.	0.	0.	0.	.56	62.	19.8	C	19.9	4.8
18	2	4840.	120.	520.	2572.	120.	520.	2572.	4400.	0.	0.	0.	.58	62.	20.7	C	17.2	4.8
19	2	530.	0.	0.	2052.	0.	0.	2052.	3800.	0.	0.	0.	.54	62.	16.5	B	19.9	4.8
20	2	1040.	412.	0.	2464.	412.	0.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	19.9	4.8
21	3	2810.	572.	760.	3036.	572.	760.	3036.	5585.	15.	0.	0.	.54	62.	16.3	B	24.1	4.8
22	2	1850.	0.	0.	2276.	0.	0.	2276.	4400.	0.	0.	0.	.52	62.	18.4	C	17.2	4.8
23	3	2390.	324.	136.	2600.	324.	136.	2600.	5600.	0.	0.	0.	.46	62.	14.0	B	24.1	4.8
24	3	960.	0.	1344.	2464.	0.	1500.	2464.	5600.	0.	0.	0.	.44	62.	13.2	B	17.2	4.8
25	2	1400.	0.	1120.	1120.	0.	1120.	1120.	3600.	0.	0.	0.	.31	62.	9.0	A	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.63	LOWEST LOS = C		AVG = 62.	17.6	16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	99. VEH-HRS	123. PASS-HRS	1992. VEH-HRS	2479. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	65. VEH-HRS	81. PASS-HRS	412. VEH-HRS	513. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	164. VEH-HRS	204. PASS-HRS	2405. VEH-HRS	2992. PASS-HRS
TOTAL TRAV DISTANCE =	6120. VEH-MI.	7614. PASS-MI.	122475. VEH-MI.	152358. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		22. VPMPL	
TOTAL FUEL =	389. GALLONS		7299. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		576. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	242.	65.37	24.76	0.38	2.34	0.41	3.13

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1728.	140.	1728.	1728.	140.	1728.	4100.	0.	0.	0.	.42	62.	13.9	B	13.6	4.8
2	2	1970.	0.	0.	1588.	0.	0.	1588.	4100.	0.	0.	0.	.39	62.	12.8	B	13.6	4.8
3	2	1830.	248.	184.	1836.	248.	184.	1836.	4100.	0.	0.	0.	.45	62.	14.8	B	13.6	4.8
4	2	2010.	0.	0.	1652.	0.	0.	1652.	4400.	0.	0.	0.	.38	62.	13.3	B	13.6	4.8
5	3	2445.	528.	384.	2180.	528.	384.	2180.	5600.	0.	0.	0.	.39	62.	11.7	B	13.6	4.8
6	2	1890.	0.	0.	1796.	0.	0.	1796.	4400.	0.	0.	0.	.41	62.	14.5	B	13.6	4.8
7	3	5320.	372.	428.	2168.	372.	428.	2168.	5600.	0.	0.	0.	.39	62.	11.7	B	13.6	4.8
8	2	880.	0.	0.	1740.	0.	0.	1740.	4400.	0.	0.	0.	.40	62.	14.0	B	14.9	4.8
9	2	1125.	104.	0.	1844.	104.	0.	1844.	4400.	0.	0.	0.	.42	62.	14.9	B	19.9	4.8
10	2	6320.	348.	256.	2192.	348.	256.	2192.	4250.	0.	0.	0.	.52	62.	17.7	B	19.9	4.8
11	2	2050.	0.	0.	1936.	0.	0.	1936.	4100.	0.	0.	0.	.47	62.	15.6	B	19.9	4.8
12	2	2560.	568.	0.	2504.	568.	0.	2504.	4400.	0.	0.	0.	.57	62.	20.2	C	17.2	4.8
13	2	1400.	0.	364.	2504.	0.	364.	2504.	4400.	0.	0.	0.	.57	62.	20.2	C	32.3	4.8
14	2	1320.	0.	0.	2140.	0.	0.	2140.	4400.	0.	0.	0.	.49	62.	17.3	B	14.9	4.8
15	3	540.	648.	1000.	2788.	648.	1000.	2788.	5184.	416.	0.	0.	.54	62.	15.0	B	12.6	4.8
16	2	1230.	0.	0.	1788.	0.	0.	1788.	4400.	0.	0.	0.	.41	62.	14.4	B	19.9	4.8
17	2	890.	576.	0.	2364.	576.	0.	2364.	4400.	0.	0.	0.	.54	62.	19.1	C	19.9	4.8
18	2	4840.	116.	412.	2480.	116.	412.	2480.	4400.	0.	0.	0.	.56	62.	20.0	C	17.2	4.8
19	2	530.	0.	0.	2068.	0.	0.	2068.	3800.	0.	0.	0.	.54	62.	16.7	B	19.9	4.8
20	2	1040.	392.	0.	2460.	392.	0.	2460.	4400.	0.	0.	0.	.56	62.	19.8	C	19.9	4.8
21	3	2810.	436.	708.	2896.	436.	708.	2896.	5586.	14.	0.	0.	.52	62.	15.6	B	24.1	4.8
22	2	1850.	0.	0.	2188.	0.	0.	2188.	4400.	0.	0.	0.	.50	62.	17.6	B	17.2	4.8
23	3	2390.	272.	108.	2460.	272.	108.	2460.	5600.	0.	0.	0.	.44	62.	13.2	B	24.1	4.8
24	3	960.	0.	1404.	2352.	0.	1500.	2352.	5600.	0.	0.	0.	.42	62.	12.6	B	17.2	4.8
25	2	1400.	0.	948.	948.	0.	948.	948.	3600.	0.	0.	0.	.26	62.	7.6	A	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.57	LOWEST LOS = C		AVG = 62.	15.5	17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	86. VEH-HRS	108. PASS-HRS	2079. VEH-HRS	2586. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	57. VEH-HRS	72. PASS-HRS	470. VEH-HRS	585. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	144. VEH-HRS	179. PASS-HRS	2549. VEH-HRS	3171. PASS-HRS
TOTAL TRAV DISTANCE =	5361. VEH-MI.	6669. PASS-MI.	127836. VEH-MI.	159028. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		61. MPH.	
AVERAGE DENSITY =	15. VPMPL		22. VPMPL	
TOTAL FUEL =	337. GALLONS		7636. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		604. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	218.	57.50	21.78	0.33	2.06	0.36	2.75

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1820.	96.	1820.	1820.	96.	1820.	4100.	0.	0.	0.	.44	62.	14.7	B	13.6	4.8
2	2	1970.	0.	0.	1724.	0.	0.	1724.	4100.	0.	0.	0.	.42	62.	13.9	B	13.6	4.8
3	2	1830.	244.	124.	1968.	244.	124.	1968.	4100.	0.	0.	0.	.48	62.	15.9	B	13.6	4.8
4	2	2010.	0.	0.	1844.	0.	0.	1844.	4400.	0.	0.	0.	.42	62.	14.9	B	13.6	4.8
5	3	2445.	440.	396.	2284.	440.	396.	2284.	5600.	0.	0.	0.	.41	62.	12.3	B	13.6	4.8
6	2	1890.	0.	0.	1888.	0.	0.	1888.	4400.	0.	0.	0.	.43	62.	15.2	B	13.6	4.8
7	3	5320.	296.	552.	2184.	296.	552.	2184.	5600.	0.	0.	0.	.39	62.	11.7	B	13.6	4.8
8	2	880.	0.	0.	1632.	0.	0.	1632.	4400.	0.	0.	0.	.37	62.	13.2	B	14.9	4.8
9	2	1125.	128.	0.	1760.	128.	0.	1760.	4400.	0.	0.	0.	.40	62.	14.2	B	19.9	4.8
10	2	6320.	368.	348.	2128.	368.	348.	2128.	4250.	0.	0.	0.	.50	62.	17.2	B	19.9	4.8
11	2	2050.	0.	0.	1780.	0.	0.	1780.	4100.	0.	0.	0.	.43	62.	14.4	B	19.9	4.8
12	2	2560.	500.	0.	2280.	500.	0.	2280.	4400.	0.	0.	0.	.52	62.	18.4	C	17.2	4.8
13	2	1400.	0.	276.	2280.	0.	276.	2280.	4400.	0.	0.	0.	.52	62.	18.4	C	32.3	4.8
14	2	1320.	0.	0.	2004.	0.	0.	2004.	4400.	0.	0.	0.	.46	62.	16.2	B	14.9	4.8
15	3	540.	652.	984.	2656.	652.	984.	2656.	5188.	412.	0.	0.	.51	62.	14.3	B	12.6	4.8
16	2	1230.	0.	0.	1672.	0.	0.	1672.	4400.	0.	0.	0.	.38	62.	13.5	B	19.9	4.8
17	2	890.	540.	0.	2212.	540.	0.	2212.	4400.	0.	0.	0.	.50	62.	17.8	B	19.9	4.8
18	2	4840.	176.	392.	2388.	176.	392.	2388.	4400.	0.	0.	0.	.54	62.	19.3	C	17.2	4.8
19	2	530.	0.	0.	1996.	0.	0.	1996.	3800.	0.	0.	0.	.53	62.	16.1	B	19.9	4.8
20	2	1040.	404.	0.	2400.	404.	0.	2400.	4400.	0.	0.	0.	.55	62.	19.4	C	19.9	4.8
21	3	2810.	452.	704.	2852.	452.	704.	2852.	5589.	11.	0.	0.	.51	62.	15.3	B	24.1	4.8
22	2	1850.	0.	0.	2148.	0.	0.	2148.	4400.	0.	0.	0.	.49	62.	17.3	B	17.2	4.8
23	3	2390.	232.	104.	2380.	232.	104.	2380.	5600.	0.	0.	0.	.42	62.	12.8	B	24.1	4.8
24	3	960.	0.	1240.	2276.	0.	1500.	2276.	5600.	0.	0.	0.	.41	62.	12.2	B	17.2	4.8
25	2	1400.	0.	1036.	1036.	0.	1036.	1036.	3600.	0.	0.	0.	.29	62.	8.4	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.55		LOWEST LOS = C	AVG = 62.	15.3		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	85. VEH-HRS	106. PASS-HRS	2164. VEH-HRS	2692. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	46. VEH-HRS	58. PASS-HRS	516. VEH-HRS	642. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	132. VEH-HRS	164. PASS-HRS	2681. VEH-HRS	3335. PASS-HRS
TOTAL TRAV DISTANCE =	5290. VEH-MI.	6581. PASS-MI.	133126. VEH-MI.	165609. PASS-MI.
AVERAGE SYSTEM SPEED =	40. MPH.		62. MPH.	
AVERAGE DENSITY =	15. VPMPL		22. VPMPL	
TOTAL FUEL =	331. GALLONS		7966. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		632. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	153.	46.37	17.56	0.27	1.66	0.29	2.22

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1628.	104.	1628.	1628.	104.	1628.	4100.	0.	0.	0.	.40	62.	13.1	B	13.6	4.8
2	2	1970.	0.	0.	1524.	0.	0.	1524.	4100.	0.	0.	0.	.37	62.	12.3	B	13.6	4.8
3	2	1830.	276.	124.	1800.	276.	124.	1800.	4100.	0.	0.	0.	.44	62.	14.5	B	13.6	4.8
4	2	2010.	0.	0.	1676.	0.	0.	1676.	4400.	0.	0.	0.	.38	62.	13.5	B	13.6	4.8
5	3	2445.	492.	384.	2168.	492.	384.	2168.	5600.	0.	0.	0.	.39	62.	11.7	B	13.6	4.8
6	2	1890.	0.	0.	1784.	0.	0.	1784.	4400.	0.	0.	0.	.41	62.	14.4	B	13.6	4.8
7	3	5320.	336.	436.	2120.	336.	436.	2120.	5600.	0.	0.	0.	.38	62.	11.4	B	13.6	4.8
8	2	880.	0.	0.	1684.	0.	0.	1684.	4400.	0.	0.	0.	.38	62.	13.6	B	14.9	4.8
9	2	1125.	184.	0.	1868.	184.	0.	1868.	4400.	0.	0.	0.	.42	62.	15.1	B	19.9	4.8
10	2	6320.	276.	276.	2144.	276.	276.	2144.	4250.	0.	0.	0.	.50	62.	17.3	B	19.9	4.8
11	2	2050.	0.	0.	1868.	0.	0.	1868.	4100.	0.	0.	0.	.46	62.	15.1	B	19.9	4.8
12	2	2560.	452.	0.	2320.	452.	0.	2320.	4400.	0.	0.	0.	.53	62.	18.7	C	17.2	4.8
13	2	1400.	0.	320.	2320.	0.	320.	2320.	4400.	0.	0.	0.	.53	62.	18.7	C	32.3	4.8
14	2	1320.	0.	0.	2000.	0.	0.	2000.	4400.	0.	0.	0.	.45	62.	16.1	B	14.9	4.8
15	3	540.	556.	972.	2556.	556.	972.	2556.	5256.	344.	0.	0.	.49	62.	13.7	B	12.6	4.8
16	2	1230.	0.	0.	1584.	0.	0.	1584.	4400.	0.	0.	0.	.36	62.	12.8	B	19.9	4.8
17	2	890.	528.	0.	2112.	528.	0.	2112.	4400.	0.	0.	0.	.48	62.	17.0	B	19.9	4.8
18	2	4840.	184.	364.	2296.	184.	364.	2296.	4400.	0.	0.	0.	.52	62.	18.5	C	17.2	4.8
19	2	530.	0.	0.	1932.	0.	0.	1932.	3800.	0.	0.	0.	.51	62.	15.6	B	19.9	4.8
20	2	1040.	296.	0.	2228.	296.	0.	2228.	4400.	0.	0.	0.	.51	62.	18.0	B	19.9	4.8
21	3	2810.	364.	548.	2592.	364.	548.	2592.	5593.	7.	0.	0.	.46	62.	13.9	B	24.1	4.8
22	2	1850.	0.	0.	2044.	0.	0.	2044.	4400.	0.	0.	0.	.46	62.	16.5	B	17.2	4.8
23	3	2390.	244.	124.	2288.	244.	124.	2288.	5600.	0.	0.	0.	.41	62.	12.3	B	24.1	4.8
24	3	960.	0.	1016.	2164.	0.	1500.	2164.	5600.	0.	0.	0.	.39	62.	11.6	B	17.2	4.8
25	2	1400.	0.	1148.	1148.	0.	1148.	1148.	3600.	0.	0.	0.	.32	62.	9.3	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.53 LOWEST LOS = C AVG = 62. 14.7 17.0 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	82. VEH-HRS	102. PASS-HRS	2247. VEH-HRS	2795. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	23. VEH-HRS	29. PASS-HRS	539. VEH-HRS	671. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	105. VEH-HRS	131. PASS-HRS	2786. VEH-HRS	3466. PASS-HRS
TOTAL TRAV DISTANCE =	5105. VEH-MI.	6351. PASS-MI.	138231. VEH-MI.	171960. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		62. MPH.	
AVERAGE DENSITY =	15. VPMPL		21. VPMPL	
TOTAL FUEL =	310. GALLONS		8276. GALLONS	
TOTAL EMISSIONS =	26. KILOGRAMS		657. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	32.	23.12	8.76	0.13	0.83	0.14	1.11

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1536.	72.	1536.	1536.	72.	1536.	4100.	0.	0.	0.	.37	62.	12.4	B	13.6	4.8
2	2	1970.	0.	0.	1464.	0.	0.	1464.	4100.	0.	0.	0.	.36	62.	11.8	B	13.6	4.8
3	2	1830.	228.	156.	1692.	228.	156.	1692.	4100.	0.	0.	0.	.41	62.	13.6	B	13.6	4.8
4	2	2010.	0.	0.	1536.	0.	0.	1536.	4400.	0.	0.	0.	.35	62.	12.4	B	13.6	4.8
5	3	2445.	312.	316.	1848.	312.	316.	1848.	5600.	0.	0.	0.	.33	62.	9.9	A	13.6	4.8
6	2	1890.	0.	0.	1532.	0.	0.	1532.	4400.	0.	0.	0.	.35	62.	12.4	B	13.6	4.8
7	3	5320.	392.	452.	1924.	392.	452.	1924.	5600.	0.	0.	0.	.34	62.	10.3	A	13.6	4.8
8	2	880.	0.	0.	1472.	0.	0.	1472.	4400.	0.	0.	0.	.33	62.	11.9	B	14.9	4.8
9	2	1125.	136.	0.	1608.	136.	0.	1608.	4400.	0.	0.	0.	.37	62.	13.0	B	19.9	4.8
10	2	6320.	300.	380.	1908.	300.	380.	1908.	4250.	0.	0.	0.	.45	62.	15.4	B	19.9	4.8
11	2	2050.	0.	0.	1528.	0.	0.	1528.	4100.	0.	0.	0.	.37	62.	12.3	B	19.9	4.8
12	2	2560.	396.	0.	1924.	396.	0.	1924.	4400.	0.	0.	0.	.44	62.	15.5	B	17.2	4.8
13	2	1400.	0.	376.	1924.	0.	376.	1924.	4400.	0.	0.	0.	.44	62.	15.5	B	32.3	4.8
14	2	1320.	0.	0.	1548.	0.	0.	1548.	4400.	0.	0.	0.	.35	62.	12.5	B	14.9	4.8
15	3	540.	676.	844.	2224.	676.	844.	2224.	5180.	420.	0.	0.	.43	62.	12.0	B	12.6	4.8
16	2	1230.	0.	0.	1380.	0.	0.	1380.	4400.	0.	0.	0.	.31	62.	11.1	B	19.9	4.8
17	2	890.	476.	0.	1856.	476.	0.	1856.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
18	2	4840.	176.	320.	2032.	176.	320.	2032.	4400.	0.	0.	0.	.46	62.	16.4	B	17.2	4.8
19	2	530.	0.	0.	1712.	0.	0.	1712.	3800.	0.	0.	0.	.45	62.	13.8	B	19.9	4.8
20	2	1040.	300.	0.	2012.	300.	0.	2012.	4400.	0.	0.	0.	.46	62.	16.2	B	19.9	4.8
21	3	2810.	364.	692.	2376.	364.	692.	2376.	5600.	0.	0.	0.	.42	62.	12.8	B	24.1	4.8
22	2	1850.	0.	0.	1684.	0.	0.	1684.	4400.	0.	0.	0.	.38	62.	13.6	B	17.2	4.8
23	3	2390.	192.	96.	1876.	192.	96.	1876.	5600.	0.	0.	0.	.34	62.	10.1	A	24.1	4.8
24	3	960.	0.	1136.	1780.	0.	1136.	1780.	5600.	0.	0.	0.	.32	62.	9.6	A	17.2	4.8
25	2	1400.	0.	644.	644.	0.	644.	644.	3600.	0.	0.	0.	.18	62.	5.2	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.46 LOWEST LOS = B AVG = 62. 12.9 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	72. VEH-HRS	89. PASS-HRS	2318. VEH-HRS	2884. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	4. VEH-HRS	5. PASS-HRS	543. VEH-HRS	676. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	76. VEH-HRS	94. PASS-HRS	2862. VEH-HRS	3560. PASS-HRS
TOTAL TRAV DISTANCE =	4459. VEH-MI.	5547. PASS-MI.	142690. VEH-MI.	177507. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		62. MPH.	
AVERAGE DENSITY =	13. VPMPL		21. VPMPL	
TOTAL FUEL =	266. GALLONS		8541. GALLONS	
TOTAL EMISSIONS =	22. KILOGRAMS		679. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	0.	4.00	1.52	0.02	0.14	0.02	0.19

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1104.	64.	1104.	1104.	64.	1104.	4100.	0.	0.	0.	.27	62.	8.9	A	13.6	4.8
2	2	1970.	0.	0.	1040.	0.	0.	1040.	4100.	0.	0.	0.	.25	62.	8.4	A	13.6	4.8
3	2	1830.	228.	104.	1268.	228.	104.	1268.	4100.	0.	0.	0.	.31	62.	10.2	A	13.6	4.8
4	2	2010.	0.	0.	1164.	0.	0.	1164.	4400.	0.	0.	0.	.26	62.	9.4	A	13.6	4.8
5	3	2445.	320.	372.	1484.	320.	372.	1484.	5600.	0.	0.	0.	.26	62.	8.0	A	13.6	4.8
6	2	1890.	0.	0.	1112.	0.	0.	1112.	4400.	0.	0.	0.	.25	62.	9.0	A	13.6	4.8
7	3	5320.	512.	344.	1624.	512.	344.	1624.	5600.	0.	0.	0.	.29	62.	8.7	A	13.6	4.8
8	2	880.	0.	0.	1280.	0.	0.	1280.	4400.	0.	0.	0.	.29	62.	10.3	A	14.9	4.8
9	2	1125.	116.	0.	1396.	116.	0.	1396.	4400.	0.	0.	0.	.32	62.	11.3	B	19.9	4.8
10	2	6320.	288.	300.	1684.	288.	300.	1684.	4250.	0.	0.	0.	.40	62.	13.6	B	19.9	4.8
11	2	2050.	0.	0.	1384.	0.	0.	1384.	4100.	0.	0.	0.	.34	62.	11.2	B	19.9	4.8
12	2	2560.	536.	0.	1920.	536.	0.	1920.	4400.	0.	0.	0.	.44	62.	15.5	B	17.2	4.8
13	2	1400.	0.	300.	1920.	0.	300.	1920.	4400.	0.	0.	0.	.44	62.	15.5	B	32.3	4.8
14	2	1320.	0.	0.	1620.	0.	0.	1620.	4400.	0.	0.	0.	.37	62.	13.1	B	14.9	4.8
15	3	540.	604.	980.	2224.	604.	980.	2224.	5260.	340.	0.	0.	.42	62.	12.0	B	12.6	4.8
16	2	1230.	0.	0.	1244.	0.	0.	1244.	4400.	0.	0.	0.	.28	62.	10.0	A	19.9	4.8
17	2	890.	612.	0.	1856.	612.	0.	1856.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
18	2	4840.	124.	364.	1980.	124.	364.	1980.	4400.	0.	0.	0.	.45	62.	16.0	B	17.2	4.8
19	2	530.	0.	0.	1616.	0.	0.	1616.	3800.	0.	0.	0.	.43	62.	13.0	B	19.9	4.8
20	2	1040.	256.	0.	1872.	256.	0.	1872.	4400.	0.	0.	0.	.43	62.	15.1	B	19.9	4.8
21	3	2810.	372.	536.	2244.	372.	536.	2244.	5600.	0.	0.	0.	.40	62.	12.1	B	24.1	4.8
22	2	1850.	0.	0.	1708.	0.	0.	1708.	4400.	0.	0.	0.	.39	62.	13.8	B	17.2	4.8
23	3	2390.	220.	104.	1928.	220.	104.	1928.	5600.	0.	0.	0.	.34	62.	10.4	A	24.1	4.8
24	3	960.	0.	1028.	1824.	0.	1028.	1824.	5600.	0.	0.	0.	.33	62.	9.8	A	17.2	4.8
25	2	1400.	0.	796.	796.	0.	796.	796.	3600.	0.	0.	0.	.22	62.	6.4	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.45 LOWEST LOS = B AVG = 62. 11.5 17.2 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	65. VEH-HRS	80. PASS-HRS	2383. VEH-HRS	2964. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	543. VEH-HRS	676. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	65. VEH-HRS	80. PASS-HRS	2926. VEH-HRS	3641. PASS-HRS
TOTAL TRAV DISTANCE =	3999. VEH-MI.	4975. PASS-MI.	146689. VEH-MI.	182481. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	12. VPMPL		20. VPMPL	
TOTAL FUEL =	233. GALLONS		8774. GALLONS	
TOTAL EMISSIONS =	19. KILOGRAMS		698. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1100.	56.	1100.	1100.	56.	1100.	4100.	0.	0.	0.	.27	62.	8.9	A	13.6	4.8
2	2	1970.	0.	0.	1044.	0.	0.	1044.	4100.	0.	0.	0.	.25	62.	8.4	A	13.6	4.8
3	2	1830.	168.	92.	1212.	168.	92.	1212.	4100.	0.	0.	0.	.30	62.	9.8	A	13.6	4.8
4	2	2010.	0.	0.	1120.	0.	0.	1120.	4400.	0.	0.	0.	.25	62.	9.0	A	13.6	4.8
5	3	2445.	248.	232.	1368.	248.	232.	1368.	5600.	0.	0.	0.	.24	62.	7.4	A	13.6	4.8
6	2	1890.	0.	0.	1136.	0.	0.	1136.	4400.	0.	0.	0.	.26	62.	9.2	A	13.6	4.8
7	3	5320.	272.	304.	1408.	272.	304.	1408.	5600.	0.	0.	0.	.25	62.	7.6	A	13.6	4.8
8	2	880.	0.	0.	1104.	0.	0.	1104.	4400.	0.	0.	0.	.25	62.	8.9	A	14.9	4.8
9	2	1125.	180.	0.	1284.	180.	0.	1284.	4400.	0.	0.	0.	.29	62.	10.4	A	19.9	4.8
10	2	6320.	324.	236.	1608.	324.	236.	1608.	4250.	0.	0.	0.	.38	62.	13.0	B	19.9	4.8
11	2	2050.	0.	0.	1372.	0.	0.	1372.	4100.	0.	0.	0.	.33	62.	11.1	B	19.9	4.8
12	2	2560.	508.	0.	1880.	508.	0.	1880.	4400.	0.	0.	0.	.43	62.	15.2	B	17.2	4.8
13	2	1400.	0.	228.	1880.	0.	228.	1880.	4400.	0.	0.	0.	.43	62.	15.2	B	32.3	4.8
14	2	1320.	0.	0.	1652.	0.	0.	1652.	4400.	0.	0.	0.	.38	62.	13.3	B	14.9	4.8
15	3	540.	516.	776.	2168.	516.	776.	2168.	5268.	332.	0.	0.	.41	62.	11.7	B	12.6	4.8
16	2	1230.	0.	0.	1392.	0.	0.	1392.	4400.	0.	0.	0.	.32	62.	11.2	B	19.9	4.8
17	2	890.	568.	0.	1960.	568.	0.	1960.	4400.	0.	0.	0.	.45	62.	15.8	B	19.9	4.8
18	2	4840.	184.	392.	2144.	184.	392.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	17.2	4.8
19	2	530.	0.	0.	1752.	0.	0.	1752.	3800.	0.	0.	0.	.46	62.	14.1	B	19.9	4.8
20	2	1040.	272.	0.	2024.	272.	0.	2024.	4400.	0.	0.	0.	.46	62.	16.3	B	19.9	4.8
21	3	2810.	356.	612.	2380.	356.	612.	2380.	5600.	0.	0.	0.	.42	62.	12.8	B	24.1	4.8
22	2	1850.	0.	0.	1768.	0.	0.	1768.	4400.	0.	0.	0.	.40	62.	14.3	B	17.2	4.8
23	3	2390.	224.	60.	1992.	224.	60.	1992.	5600.	0.	0.	0.	.36	62.	10.7	A	24.1	4.8
24	3	960.	0.	904.	1932.	0.	904.	1932.	5600.	0.	0.	0.	.34	62.	10.4	A	17.2	4.8
25	2	1400.	0.	1028.	1028.	0.	1028.	1028.	3600.	0.	0.	0.	.29	62.	8.3	A	19.9	4.8
TOTAL		53000. =	10.0 MILES							MAX(V/C) = 0.49	LOWEST LOS = B		AVG = 62.		11.5		17.3	4.8

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 22 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	2447. VEH-HRS	3044. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	543. VEH-HRS	676. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	2991. VEH-HRS	3721. PASS-HRS
TOTAL TRAV DISTANCE =	3992. VEH-MI.	4966. PASS-MI.	150681. VEH-MI.	187448. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	12. VPMPL		20. VPMPL	
TOTAL FUEL =	231. GALLONS		9005. GALLONS	
TOTAL EMISSIONS =	19. KILOGRAMS		717. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	800.	72.	800.	800.	72.	800.	4100.	0.	0.	0.	.20	62.	6.5	A	13.6	4.8
2	2	1970.	0.	0.	728.	0.	0.	728.	4100.	0.	0.	0.	.18	62.	5.9	A	13.6	4.8
3	2	1830.	164.	52.	892.	164.	52.	892.	4100.	0.	0.	0.	.22	62.	7.2	A	13.6	4.8
4	2	2010.	0.	0.	840.	0.	0.	840.	4400.	0.	0.	0.	.19	62.	6.8	A	13.6	4.8
5	3	2445.	312.	152.	1152.	312.	152.	1152.	5600.	0.	0.	0.	.21	62.	6.2	A	13.6	4.8
6	2	1890.	0.	0.	1000.	0.	0.	1000.	4400.	0.	0.	0.	.23	62.	8.1	A	13.6	4.8
7	3	5320.	348.	336.	1348.	348.	336.	1348.	5600.	0.	0.	0.	.24	62.	7.2	A	13.6	4.8
8	2	880.	0.	0.	1012.	0.	0.	1012.	4400.	0.	0.	0.	.23	62.	8.2	A	14.9	4.8
9	2	1125.	144.	0.	1156.	144.	0.	1156.	4400.	0.	0.	0.	.26	62.	9.3	A	19.9	4.8
10	2	6320.	280.	168.	1436.	280.	168.	1436.	4250.	0.	0.	0.	.34	62.	11.6	B	19.9	4.8
11	2	2050.	0.	0.	1268.	0.	0.	1268.	4100.	0.	0.	0.	.31	62.	10.2	A	19.9	4.8
12	2	2560.	392.	0.	1660.	392.	0.	1660.	4400.	0.	0.	0.	.38	62.	13.4	B	17.2	4.8
13	2	1400.	0.	236.	1660.	0.	236.	1660.	4400.	0.	0.	0.	.38	62.	13.4	B	32.3	4.8
14	2	1320.	0.	0.	1424.	0.	0.	1424.	4400.	0.	0.	0.	.32	62.	11.5	B	14.9	4.8
15	3	540.	552.	796.	1976.	552.	796.	1976.	5272.	328.	0.	0.	.37	62.	10.6	A	12.6	4.8
16	2	1230.	0.	0.	1180.	0.	0.	1180.	4400.	0.	0.	0.	.27	62.	9.5	A	19.9	4.8
17	2	890.	404.	0.	1584.	404.	0.	1584.	4400.	0.	0.	0.	.36	62.	12.8	B	19.9	4.8
18	2	4840.	160.	280.	1744.	160.	280.	1744.	4400.	0.	0.	0.	.40	62.	14.1	B	17.2	4.8
19	2	530.	0.	0.	1464.	0.	0.	1464.	3800.	0.	0.	0.	.39	62.	11.8	B	19.9	4.8
20	2	1040.	300.	0.	1764.	300.	0.	1764.	4400.	0.	0.	0.	.40	62.	14.2	B	19.9	4.8
21	3	2810.	256.	592.	2020.	256.	592.	2020.	5600.	0.	0.	0.	.36	62.	10.9	A	24.1	4.8
22	2	1850.	0.	0.	1428.	0.	0.	1428.	4400.	0.	0.	0.	.32	62.	11.5	B	17.2	4.8
23	3	2390.	212.	64.	1640.	212.	64.	1640.	5600.	0.	0.	0.	.29	62.	8.8	A	24.1	4.8
24	3	960.	0.	872.	1576.	0.	872.	1576.	5600.	0.	0.	0.	.28	62.	8.5	A	17.2	4.8
25	2	1400.	0.	704.	704.	0.	704.	704.	3600.	0.	0.	0.	.20	62.	5.7	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.40		LOWEST LOS = B	AVG = 62.	9.7		17.3	4.8

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 23 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	55. VEH-HRS	68. PASS-HRS	2502. VEH-HRS	3112. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	543. VEH-HRS	676. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	55. VEH-HRS	68. PASS-HRS	3045. VEH-HRS	3788. PASS-HRS
TOTAL TRAV DISTANCE =	3380. VEH-MI.	4205. PASS-MI.	154062. VEH-MI.	191653. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	10. VPMPL		20. VPMPL	
TOTAL FUEL =	195. GALLONS		9201. GALLONS	
TOTAL EMISSIONS =	16. KILOGRAMS		733. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	840.	56.	840.	840.	56.	840.	4100.	0.	0.	0.	.20	62.	6.8	A	13.6	4.8
2	2	1970.	0.	0.	784.	0.	0.	784.	4100.	0.	0.	0.	.19	62.	6.3	A	13.6	4.8
3	2	1830.	112.	60.	896.	112.	60.	896.	4100.	0.	0.	0.	.22	62.	7.2	A	13.6	4.8
4	2	2010.	0.	0.	836.	0.	0.	836.	4400.	0.	0.	0.	.19	62.	6.7	A	13.6	4.8
5	3	2445.	132.	192.	968.	132.	192.	968.	5600.	0.	0.	0.	.17	62.	5.2	A	13.6	4.8
6	2	1890.	0.	0.	776.	0.	0.	776.	4400.	0.	0.	0.	.18	62.	6.3	A	13.6	4.8
7	3	5320.	272.	236.	1048.	272.	236.	1048.	5600.	0.	0.	0.	.19	62.	5.6	A	13.6	4.8
8	2	880.	0.	0.	812.	0.	0.	812.	4400.	0.	0.	0.	.18	62.	6.5	A	14.9	4.8
9	2	1125.	100.	0.	912.	100.	0.	912.	4400.	0.	0.	0.	.21	62.	7.4	A	19.9	4.8
10	2	6320.	148.	140.	1060.	148.	140.	1060.	4250.	0.	0.	0.	.25	62.	8.5	A	19.9	4.8
11	2	2050.	0.	0.	920.	0.	0.	920.	4100.	0.	0.	0.	.22	62.	7.4	A	19.9	4.8
12	2	2560.	384.	0.	1304.	384.	0.	1304.	4400.	0.	0.	0.	.30	62.	10.5	A	17.2	4.8
13	2	1400.	0.	216.	1304.	0.	216.	1304.	4400.	0.	0.	0.	.30	62.	10.5	A	32.3	4.8
14	2	1320.	0.	0.	1088.	0.	0.	1088.	4400.	0.	0.	0.	.25	62.	8.8	A	14.9	4.8
15	3	540.	448.	632.	1536.	448.	632.	1536.	5336.	264.	0.	0.	.29	62.	8.3	A	12.6	4.8
16	2	1230.	0.	0.	904.	0.	0.	904.	4400.	0.	0.	0.	.21	62.	7.3	A	19.9	4.8
17	2	890.	396.	0.	1300.	396.	0.	1300.	4400.	0.	0.	0.	.30	62.	10.5	A	19.9	4.8
18	2	4840.	104.	176.	1404.	104.	176.	1404.	4400.	0.	0.	0.	.32	62.	11.3	B	17.2	4.8
19	2	530.	0.	0.	1228.	0.	0.	1228.	3800.	0.	0.	0.	.32	62.	9.9	A	19.9	4.8
20	2	1040.	252.	0.	1480.	252.	0.	1480.	4400.	0.	0.	0.	.34	62.	11.9	B	19.9	4.8
21	3	2810.	224.	460.	1704.	224.	460.	1704.	5600.	0.	0.	0.	.30	62.	9.2	A	24.1	4.8
22	2	1850.	0.	0.	1244.	0.	0.	1244.	4400.	0.	0.	0.	.28	62.	10.0	A	17.2	4.8
23	3	2390.	176.	28.	1420.	176.	28.	1420.	5600.	0.	0.	0.	.25	62.	7.6	A	24.1	4.8
24	3	960.	0.	808.	1392.	0.	808.	1392.	5600.	0.	0.	0.	.25	62.	7.5	A	17.2	4.8
25	2	1400.	0.	584.	584.	0.	584.	584.	3600.	0.	0.	0.	.16	62.	4.7	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.34		LOWEST LOS = B	AVG = 62.	8.0		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	45. VEH-HRS	56. PASS-HRS	2547. VEH-HRS	3168. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	543. VEH-HRS	676. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	45. VEH-HRS	56. PASS-HRS	3090. VEH-HRS	3844. PASS-HRS
TOTAL TRAV DISTANCE =	2783. VEH-MI.	3462. PASS-MI.	156844. VEH-MI.	195115. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	8. VPMPL		19. VPMPL	
TOTAL FUEL =	162. GALLONS		9362. GALLONS	
TOTAL EMISSIONS =	13. KILOGRAMS		747. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	132.	164.	0.	0.	132.	164.	8014.	9969.	60.9	459.	1.	23.	10.	6:00
2	138.	172.	0.	0.	138.	172.	8326.	10358.	60.4	474.	1.	23.	10.	6:15
3	139.	173.	3.	4.	142.	177.	8443.	10503.	59.5	485.	1.	24.	10.	6:30
4	124.	154.	9.	12.	133.	165.	7623.	9483.	57.3	448.	1.	24.	10.	6:45
5	136.	170.	12.	15.	149.	185.	8331.	10364.	56.1	485.	1.	25.	11.	7:00
6	128.	159.	14.	17.	142.	176.	7869.	9790.	55.5	461.	1.	25.	10.	7:15
7	136.	169.	17.	21.	153.	191.	8293.	10317.	54.1	480.	1.	24.	10.	7:30
8	122.	152.	20.	25.	142.	177.	7542.	9382.	53.1	450.	1.	25.	10.	7:45
9	122.	152.	20.	25.	143.	177.	7567.	9413.	53.1	453.	1.	25.	10.	8:00
10	115.	143.	19.	24.	134.	167.	7112.	8848.	52.9	429.	1.	24.	9.	8:15
11	124.	154.	22.	28.	146.	182.	7665.	9535.	52.4	461.	1.	26.	10.	8:30
12	115.	144.	32.	40.	148.	184.	7149.	8894.	48.3	435.	1.	25.	9.	8:45
13	130.	162.	47.	59.	177.	221.	8013.	9968.	45.2	484.	2.	27.	11.	9:00
14	116.	145.	61.	76.	177.	220.	7211.	8970.	40.7	454.	2.	26.	10.	9:15
15	116.	144.	69.	86.	185.	230.	7197.	8953.	38.9	452.	2.	26.	10.	9:30
16	99.	123.	65.	81.	164.	204.	6120.	7614.	37.3	389.	1.	23.	8.	9:45
17	86.	108.	57.	72.	144.	179.	5361.	6669.	37.2	337.	1.	20.	7.	10:00
18	85.	106.	46.	58.	132.	164.	5290.	6581.	40.2	331.	1.	19.	7.	10:15
19	82.	102.	23.	29.	105.	131.	5105.	6351.	48.4	310.	1.	18.	7.	10:30
20	72.	89.	4.	5.	76.	94.	4459.	5547.	58.7	266.	1.	15.	6.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	65.	80.	0.	0.	65.	80.	3999.	4975.	62.0	233.	1.	13.	5.	11:00
22	64.	80.	0.	0.	64.	80.	3992.	4966.	62.0	231.	1.	13.	5.	11:15
23	55.	68.	0.	0.	55.	68.	3380.	4205.	62.0	195.	1.	11.	4.	11:30
24	45.	56.	0.	0.	45.	56.	2783.	3462.	62.0	162.	0.	9.	4.	11:45
TOTAL	2547.	3168.	543.	676.	3090.	3844.	156844.	195115.	61.6	9362.	30.	512.	204.	

Horizon Year (2045) No Build
Southbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	692.	0.	692.	692.	0.	692.	3850.	0.	0.	0.	.18	50.	6.9	A	17.4	2.3
2	2	2070.	192.	0.	884.	192.	0.	884.	3850.	0.	0.	0.	.23	50.	8.8	A	15.9	2.3
3	3	2300.	348.	52.	1232.	348.	52.	1232.	5700.	0.	0.	0.	.22	55.	7.5	A	14.0	2.4
4	3	1020.	0.	0.	1180.	0.	0.	1180.	5700.	0.	0.	0.	.21	62.	6.3	A	19.9	4.8
5	3	710.	80.	0.	1260.	80.	0.	1260.	5700.	0.	0.	0.	.22	62.	6.8	A	16.1	4.4
6	3	3820.	64.	176.	1324.	64.	176.	1324.	6150.	0.	0.	0.	.22	62.	7.1	A	17.1	4.8
7	2	1220.	0.	0.	1148.	0.	0.	1148.	4400.	0.	0.	0.	.26	62.	9.3	A	18.2	4.4
8	2	4810.	188.	132.	1336.	188.	132.	1336.	4100.	0.	0.	0.	.33	62.	10.8	A	20.6	4.4
9	2	1370.	0.	0.	1204.	0.	0.	1204.	4000.	0.	0.	0.	.30	62.	9.7	A	23.6	4.4
10	2	660.	72.	0.	1276.	72.	0.	1276.	4399.	1.	0.	0.	.29	62.	10.3	A	23.6	4.4
11	3	790.	196.	96.	1472.	196.	96.	1472.	6098.	2.	0.	0.	.24	62.	7.9	A	30.0	4.4
12	2	1460.	0.	0.	1376.	0.	0.	1376.	4100.	0.	0.	0.	.34	62.	11.1	B	20.6	4.4
13	2	1400.	100.	0.	1476.	100.	0.	1476.	3970.	0.	0.	0.	.37	62.	11.9	B	13.6	4.4
14	2	2600.	0.	32.	1476.	0.	32.	1476.	3970.	0.	0.	0.	.37	62.	11.9	B	20.6	4.4
15	2	2010.	0.	0.	1444.	0.	0.	1444.	3900.	0.	0.	0.	.37	62.	11.6	B	14.7	4.4
16	2	6120.	104.	80.	1548.	104.	80.	1548.	3850.	0.	0.	0.	.40	62.	12.5	B	18.2	4.4
17	2	1240.	0.	0.	1468.	0.	0.	1468.	4300.	0.	0.	0.	.34	62.	11.8	B	18.2	4.4
18	3	930.	56.	0.	1524.	56.	0.	1524.	6100.	0.	0.	0.	.25	62.	8.2	A	20.6	4.4
19	3	5330.	56.	48.	1580.	56.	48.	1580.	6100.	0.	0.	0.	.26	62.	8.5	A	20.6	4.4
20	2	2830.	0.	0.	1532.	0.	0.	1532.	3800.	0.	0.	0.	.40	61.	12.6	B	21.1	3.8
21	3	1660.	140.	128.	1672.	140.	128.	1672.	6100.	0.	0.	0.	.27	61.	9.1	A	21.1	3.8
22	2	2270.	0.	0.	1544.	0.	0.	1544.	4400.	0.	0.	0.	.35	62.	12.5	B	20.6	4.4
23	2	3040.	20.	44.	1564.	20.	44.	1564.	4100.	0.	0.	0.	.38	62.	12.6	B	20.6	4.4
24	2	2190.	0.	0.	1520.	0.	0.	1520.	4200.	0.	0.	0.	.36	65.	11.7	B	19.2	6.1
25	3	2400.	52.	1572.	1572.	52.	1572.	1572.	6150.	0.	0.	0.	.26	65.	8.1	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.40		LOWEST LOS = B	AVG = 61.	10.2		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	60. VEH-HRS	70. PASS-HRS	60. VEH-HRS	70. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	60. VEH-HRS	70. PASS-HRS	60. VEH-HRS	70. PASS-HRS
TOTAL TRAV DISTANCE =	3696. VEH-MI.	4288. PASS-MI.	3696. VEH-MI.	4288. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	10. VPMPL		10. VPMPL	
TOTAL FUEL =	196. GALLONS		196. GALLONS	
TOTAL EMISSIONS =	16. KILOGRAMS		16. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	988.	0.	988.	988.	0.	988.	3850.	0.	0.	0.	.26	50.	9.9	A	17.4	2.3
2	2	2070.	192.	0.	1180.	192.	0.	1180.	3850.	0.	0.	0.	.31	50.	11.8	B	15.9	2.3
3	3	2300.	520.	52.	1700.	520.	52.	1700.	5700.	0.	0.	0.	.30	55.	10.3	A	14.0	2.4
4	3	1020.	0.	0.	1648.	0.	0.	1648.	5700.	0.	0.	0.	.29	62.	8.9	A	19.9	4.8
5	3	710.	44.	0.	1692.	44.	0.	1692.	5700.	0.	0.	0.	.30	62.	9.1	A	16.1	4.4
6	3	3820.	80.	192.	1772.	80.	192.	1772.	6150.	0.	0.	0.	.29	62.	9.5	A	17.1	4.8
7	2	1220.	0.	0.	1580.	0.	0.	1580.	4400.	0.	0.	0.	.36	62.	12.7	B	18.2	4.4
8	2	4810.	176.	148.	1756.	176.	148.	1756.	4100.	0.	0.	0.	.43	62.	14.2	B	20.6	4.4
9	2	1370.	0.	0.	1608.	0.	0.	1608.	4000.	0.	0.	0.	.40	62.	13.0	B	23.6	4.4
10	2	660.	40.	0.	1648.	40.	0.	1648.	4398.	2.	0.	0.	.37	62.	13.3	B	23.6	4.4
11	3	790.	156.	104.	1804.	156.	104.	1804.	6098.	2.	0.	0.	.30	62.	9.7	A	30.0	4.4
12	2	1460.	0.	0.	1700.	0.	0.	1700.	4100.	0.	0.	0.	.41	62.	13.7	B	20.6	4.4
13	2	1400.	112.	0.	1812.	112.	0.	1812.	3970.	0.	0.	0.	.46	62.	14.6	B	13.6	4.4
14	2	2600.	0.	48.	1812.	0.	48.	1812.	3970.	0.	0.	0.	.46	62.	14.6	B	20.6	4.4
15	2	2010.	0.	0.	1764.	0.	0.	1764.	3900.	0.	0.	0.	.45	62.	14.2	B	14.7	4.4
16	2	6120.	84.	116.	1848.	84.	116.	1848.	3850.	0.	0.	0.	.48	62.	14.9	B	18.2	4.4
17	2	1240.	0.	0.	1732.	0.	0.	1732.	4300.	0.	0.	0.	.40	62.	14.0	B	18.2	4.4
18	3	930.	84.	0.	1816.	84.	0.	1816.	6100.	0.	0.	0.	.30	62.	9.8	A	20.6	4.4
19	3	5330.	80.	68.	1896.	80.	68.	1896.	6100.	0.	0.	0.	.31	62.	10.2	A	20.6	4.4
20	2	2830.	0.	0.	1828.	0.	0.	1828.	3800.	0.	0.	0.	.48	61.	15.0	B	21.1	3.8
21	3	1660.	132.	100.	1960.	132.	100.	1960.	6100.	0.	0.	0.	.32	61.	10.7	A	21.1	3.8
22	2	2270.	0.	0.	1860.	0.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	20.6	4.4
23	2	3040.	64.	76.	1924.	64.	76.	1924.	4100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
24	2	2190.	0.	0.	1848.	0.	0.	1848.	4200.	0.	0.	0.	.44	65.	14.2	B	19.2	6.1
25	3	2400.	68.	1916.	1916.	68.	1916.	1916.	6150.	0.	0.	0.	.31	65.	9.8	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.48		LOWEST LOS = B	AVG = 61.	12.7		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	75. VEH-HRS	87. PASS-HRS	135. VEH-HRS	157. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	75. VEH-HRS	87. PASS-HRS	135. VEH-HRS	157. PASS-HRS
TOTAL TRAV DISTANCE =	4605. VEH-MI.	5342. PASS-MI.	8301. VEH-MI.	9630. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	13. VPMPL		11. VPMPL	
TOTAL FUEL =	244. GALLONS		440. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		36. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1408.	0.	1408.	1408.	0.	1408.	3850.	0.	0.	0.	.37	50.	14.1	B	17.4	2.3
2	2	2070.	276.	0.	1684.	276.	0.	1684.	3850.	0.	0.	0.	.44	50.	16.8	B	15.9	2.3
3	3	2300.	720.	76.	2404.	720.	76.	2404.	5697.	3.	0.	0.	.42	55.	14.6	B	14.0	2.4
4	3	1020.	0.	0.	2328.	0.	0.	2328.	5700.	0.	0.	0.	.41	62.	12.5	B	19.9	4.8
5	3	710.	88.	0.	2416.	88.	0.	2416.	5700.	0.	0.	0.	.42	62.	13.0	B	16.1	4.4
6	3	3820.	128.	376.	2544.	128.	376.	2544.	6150.	0.	0.	0.	.41	62.	13.7	B	17.1	4.8
7	2	1220.	0.	0.	2168.	0.	0.	2168.	4400.	0.	0.	0.	.49	62.	17.5	B	18.2	4.4
8	2	4810.	272.	216.	2440.	272.	216.	2440.	4100.	0.	0.	0.	.60	62.	19.7	C	20.6	4.4
9	2	1370.	0.	0.	2224.	0.	0.	2224.	4000.	0.	0.	0.	.56	62.	17.9	B	23.6	4.4
10	2	660.	96.	0.	2320.	96.	0.	2320.	4398.	2.	0.	0.	.53	62.	18.7	C	23.6	4.4
11	3	790.	328.	148.	2648.	328.	148.	2648.	6066.	34.	0.	0.	.44	62.	14.2	B	30.0	4.4
12	2	1460.	0.	0.	2500.	0.	0.	2500.	4100.	0.	0.	0.	.61	62.	20.2	C	20.6	4.4
13	2	1400.	204.	0.	2704.	204.	0.	2704.	3970.	0.	0.	0.	.68	62.	21.8	C	13.6	4.4
14	2	2600.	0.	72.	2704.	0.	72.	2704.	3970.	0.	0.	0.	.68	62.	21.8	C	20.6	4.4
15	2	2010.	0.	0.	2632.	0.	0.	2632.	3900.	0.	0.	0.	.67	62.	21.2	C	14.7	4.4
16	2	6120.	92.	112.	2724.	92.	112.	2724.	3850.	0.	0.	0.	.71	62.	22.0	C	18.2	4.4
17	2	1240.	0.	0.	2612.	0.	0.	2612.	4300.	0.	0.	0.	.61	62.	21.1	C	18.2	4.4
18	3	930.	136.	0.	2748.	136.	0.	2748.	6100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
19	3	5330.	88.	108.	2836.	88.	108.	2836.	6099.	1.	0.	0.	.47	62.	15.2	B	20.6	4.4
20	2	2830.	0.	0.	2728.	0.	0.	2728.	3800.	0.	0.	0.	.72	61.	22.4	C	21.1	3.8
21	3	1660.	140.	172.	2868.	140.	172.	2868.	6100.	0.	0.	0.	.47	61.	15.7	B	21.1	3.8
22	2	2270.	0.	0.	2696.	0.	0.	2696.	4400.	0.	0.	0.	.61	62.	21.7	C	20.6	4.4
23	2	3040.	92.	48.	2788.	92.	48.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	20.6	4.4
24	2	2190.	0.	0.	2740.	0.	0.	2740.	4200.	0.	0.	0.	.65	65.	21.1	C	19.2	6.1
25	3	2400.	76.	2816.	2816.	76.	2816.	2816.	6150.	0.	0.	0.	.46	65.	14.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.72		LOWEST LOS = C	AVG = 61.	18.6		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	109. VEH-HRS	127. PASS-HRS	244. VEH-HRS	283. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	109. VEH-HRS	127. PASS-HRS	244. VEH-HRS	283. PASS-HRS
TOTAL TRAV DISTANCE =	6712. VEH-MI.	7786. PASS-MI.	15013. VEH-MI.	17415. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		14. VPMPL	
TOTAL FUEL =	356. GALLONS		796. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		66. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1932.	0.	1932.	1932.	0.	1932.	3850.	0.	0.	0.	.50	50.	19.3	C	17.4	2.3
2	2	2070.	368.	0.	2300.	368.	0.	2300.	3847.	3.	0.	0.	.60	50.	23.0	C	15.9	2.3
3	3	2300.	860.	108.	3160.	860.	108.	3160.	5665.	35.	0.	0.	.56	55.	19.2	C	14.0	2.4
4	3	1020.	0.	0.	3052.	0.	0.	3052.	5700.	0.	0.	0.	.54	62.	16.4	B	19.9	4.8
5	3	710.	124.	0.	3176.	124.	0.	3176.	5700.	0.	0.	0.	.56	62.	17.1	B	16.1	4.4
6	3	3820.	240.	624.	3416.	240.	624.	3416.	6150.	0.	0.	0.	.56	62.	18.4	C	17.1	4.8
7	2	1220.	0.	0.	2792.	0.	0.	2792.	4400.	0.	0.	0.	.63	62.	22.5	C	18.2	4.4
8	2	4810.	320.	340.	3112.	320.	340.	3112.	4100.	0.	0.	0.	.76	62.	25.3	C	20.8	4.1
9	2	1370.	0.	0.	2772.	0.	0.	2772.	4000.	0.	0.	0.	.69	62.	22.4	C	23.6	4.4
10	2	660.	100.	0.	2872.	100.	0.	2872.	4395.	5.	0.	0.	.65	62.	23.2	C	23.6	4.4
11	3	790.	352.	336.	3224.	352.	336.	3224.	5853.	247.	0.	0.	.55	62.	17.3	B	30.0	4.4
12	2	1460.	0.	0.	2888.	0.	0.	2888.	4100.	0.	0.	0.	.70	62.	23.3	C	20.6	4.4
13	2	1400.	212.	0.	3100.	212.	0.	3100.	3970.	0.	0.	0.	.78	61.	25.3	C	13.7	4.0
14	2	2600.	0.	196.	3100.	0.	196.	3100.	3970.	0.	0.	0.	.78	61.	25.3	C	20.9	4.0
15	2	2010.	0.	0.	2904.	0.	0.	2904.	3900.	0.	0.	0.	.74	62.	23.4	C	14.7	4.4
16	2	6120.	200.	192.	3104.	200.	192.	3104.	3850.	0.	0.	0.	.81	61.	25.5	C	18.7	3.7
17	2	1240.	0.	0.	2912.	0.	0.	2912.	4300.	0.	0.	0.	.68	62.	23.5	C	18.2	4.4
18	3	930.	168.	0.	3080.	168.	0.	3080.	6100.	0.	0.	0.	.50	62.	16.6	B	20.6	4.4
19	3	5330.	148.	128.	3228.	148.	128.	3228.	6097.	3.	0.	0.	.53	62.	17.4	B	20.6	4.4
20	2	2830.	0.	0.	3100.	0.	0.	3100.	3800.	0.	0.	0.	.82	61.	25.4	C	21.1	3.8
21	3	1660.	316.	356.	3416.	316.	356.	3416.	6100.	0.	0.	0.	.56	61.	18.7	C	21.1	3.8
22	2	2270.	0.	0.	3060.	0.	0.	3060.	4400.	0.	0.	0.	.70	62.	24.7	C	20.6	4.4
23	2	3040.	108.	76.	3168.	108.	76.	3168.	4100.	0.	0.	0.	.77	61.	25.8	C	20.9	4.0
24	2	2190.	0.	0.	3092.	0.	0.	3092.	4200.	0.	0.	0.	.74	64.	24.0	C	19.4	5.8
25	3	2400.	88.	3180.	3180.	88.	3180.	3180.	6150.	0.	0.	0.	.52	65.	16.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.82		LOWEST LOS = C	AVG = 61.	22.2		18.9	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	131. VEH-HRS	152. PASS-HRS	375. VEH-HRS	435. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	131. VEH-HRS	152. PASS-HRS	375. VEH-HRS	435. PASS-HRS
TOTAL TRAV DISTANCE =	7982. VEH-MI.	9259. PASS-MI.	22995. VEH-MI.	26674. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		16. VPMPL	
TOTAL FUEL =	422. GALLONS		1218. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		100. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	856.	0.	856.	856.	0.	856.	3850.	0.	0.	0.	.22	50.	8.6	A	17.4	2.3
2	2	2070.	476.	0.	1332.	476.	0.	1332.	3850.	0.	0.	0.	.35	50.	13.3	B	15.9	2.3
3	3	2300.	1048.	164.	2380.	1048.	164.	2380.	5640.	60.	0.	0.	.42	55.	14.4	B	14.0	2.4
4	3	1020.	0.	0.	2216.	0.	0.	2216.	5700.	0.	0.	0.	.39	62.	11.9	B	19.9	4.8
5	3	710.	128.	0.	2344.	128.	0.	2344.	5700.	0.	0.	0.	.41	62.	12.6	B	16.1	4.4
6	3	3820.	348.	540.	2692.	348.	540.	2692.	6150.	0.	0.	0.	.44	62.	14.5	B	17.1	4.8
7	2	1220.	0.	0.	2152.	0.	0.	2152.	4400.	0.	0.	0.	.49	62.	17.4	B	18.2	4.4
8	2	4810.	404.	356.	2556.	404.	356.	2556.	4100.	0.	0.	0.	.62	62.	20.6	C	20.6	4.4
9	2	1370.	0.	0.	2200.	0.	0.	2200.	4000.	0.	0.	0.	.55	62.	17.7	B	23.6	4.4
10	2	660.	112.	0.	2312.	112.	0.	2312.	4393.	7.	0.	0.	.53	62.	18.6	C	23.6	4.4
11	3	790.	548.	436.	2860.	548.	436.	2860.	5739.	361.	0.	0.	.50	62.	15.4	B	30.0	4.4
12	2	1460.	0.	0.	2424.	0.	0.	2424.	4100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
13	2	1400.	312.	0.	2736.	312.	0.	2736.	3970.	0.	0.	0.	.69	62.	22.1	C	13.6	4.4
14	2	2600.	0.	196.	2736.	0.	196.	2736.	3970.	0.	0.	0.	.69	62.	22.1	C	20.6	4.4
15	2	2010.	0.	0.	2540.	0.	0.	2540.	3900.	0.	0.	0.	.65	62.	20.5	C	14.7	4.4
16	2	6120.	216.	276.	2756.	216.	276.	2756.	3850.	0.	0.	0.	.72	62.	22.2	C	18.2	4.4
17	2	1240.	0.	0.	2480.	0.	0.	2480.	4300.	0.	0.	0.	.58	62.	20.0	C	18.2	4.4
18	3	930.	232.	0.	2712.	232.	0.	2712.	6100.	0.	0.	0.	.44	62.	14.6	B	20.6	4.4
19	3	5330.	204.	212.	2916.	204.	212.	2916.	6097.	3.	0.	0.	.48	62.	15.7	B	20.6	4.4
20	2	2830.	0.	0.	2704.	0.	0.	2704.	3800.	0.	0.	0.	.71	61.	22.2	C	21.1	3.8
21	3	1660.	524.	652.	3228.	524.	652.	3228.	5869.	231.	0.	0.	.55	61.	17.6	B	21.1	3.8
22	2	2270.	0.	0.	2576.	0.	0.	2576.	4400.	0.	0.	0.	.59	62.	20.8	C	20.6	4.4
23	2	3040.	140.	100.	2716.	140.	100.	2716.	4100.	0.	0.	0.	.66	62.	21.9	C	20.6	4.4
24	2	2190.	0.	0.	2616.	0.	0.	2616.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	112.	2728.	2728.	112.	2728.	2728.	6150.	0.	0.	0.	.44	65.	14.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.72		LOWEST LOS = C	AVG = 62.	18.4		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	109. VEH-HRS	126. PASS-HRS	484. VEH-HRS	562. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	109. VEH-HRS	126. PASS-HRS	484. VEH-HRS	562. PASS-HRS
TOTAL TRAV DISTANCE =	6703. VEH-MI.	7776. PASS-MI.	29698. VEH-MI.	34450. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		16. VPMPL	
TOTAL FUEL =	355. GALLONS		1573. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		129. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1088.	0.	1088.	1088.	0.	1088.	3850.	0.	0.	0.	.28	50.	10.9	A	17.4	2.3
2	2	2070.	588.	0.	1676.	588.	0.	1676.	3850.	0.	0.	0.	.44	50.	16.8	B	15.9	2.3
3	3	2300.	1424.	244.	3100.	1424.	244.	3100.	5575.	125.	0.	0.	.56	55.	18.8	C	14.0	2.4
4	3	1020.	0.	0.	2856.	0.	0.	2856.	5700.	0.	0.	0.	.50	62.	15.4	B	19.9	4.8
5	3	710.	192.	0.	3048.	192.	0.	3048.	5700.	0.	0.	0.	.53	62.	16.4	B	16.1	4.4
6	3	3820.	332.	792.	3380.	332.	792.	3380.	6150.	0.	0.	0.	.55	62.	18.2	C	17.1	4.8
7	2	1220.	0.	0.	2588.	0.	0.	2588.	4400.	0.	0.	0.	.59	62.	20.9	C	18.2	4.4
8	2	4810.	456.	392.	3044.	456.	392.	3044.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
9	2	1370.	0.	0.	2652.	0.	0.	2652.	4000.	0.	0.	0.	.66	62.	21.4	C	23.6	4.4
10	2	660.	156.	0.	2808.	156.	0.	2808.	4389.	11.	0.	0.	.64	62.	22.6	C	23.6	4.4
11	3	790.	492.	536.	3300.	492.	536.	3300.	5675.	425.	0.	0.	.58	62.	17.7	B	30.0	4.4
12	2	1460.	0.	0.	2764.	0.	0.	2764.	4100.	0.	0.	0.	.67	62.	22.3	C	20.6	4.4
13	2	1400.	396.	0.	3160.	396.	0.	3160.	3970.	0.	0.	0.	.80	61.	25.9	C	13.8	3.8
14	2	2600.	0.	456.	3160.	0.	456.	3160.	3970.	0.	0.	0.	.80	61.	25.9	C	21.0	3.8
15	2	2010.	0.	0.	2704.	0.	0.	2704.	3900.	0.	0.	0.	.69	62.	21.8	C	14.7	4.4
16	2	6120.	304.	308.	3008.	304.	308.	3008.	3850.	0.	0.	0.	.78	62.	24.3	C	18.2	4.4
17	2	1240.	0.	0.	2700.	0.	0.	2700.	4300.	0.	0.	0.	.63	62.	21.8	C	18.2	4.4
18	3	930.	344.	0.	3044.	344.	0.	3044.	6100.	0.	0.	0.	.50	62.	16.4	B	20.6	4.4
19	3	5330.	176.	292.	3220.	176.	292.	3220.	6090.	10.	0.	0.	.53	62.	17.3	B	20.6	4.4
20	2	2830.	0.	0.	2928.	0.	0.	2928.	3800.	0.	0.	0.	.77	61.	24.0	C	21.1	3.8
21	3	1660.	524.	536.	3452.	524.	536.	3452.	5900.	200.	0.	0.	.59	61.	18.9	C	21.1	3.8
22	2	2270.	0.	0.	2916.	0.	0.	2916.	4400.	0.	0.	0.	.66	62.	23.5	C	20.6	4.4
23	2	3040.	316.	180.	3232.	316.	180.	3232.	4100.	0.	0.	0.	.79	61.	26.4	D	21.0	3.9
24	2	2190.	0.	0.	3052.	0.	0.	3052.	4200.	0.	0.	0.	.73	65.	23.7	C	19.4	5.8
25	3	2400.	144.	3196.	3196.	144.	3196.	3196.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 61.	21.3		18.9	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	126. VEH-HRS	147. PASS-HRS	610. VEH-HRS	708. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	126. VEH-HRS	147. PASS-HRS	610. VEH-HRS	708. PASS-HRS
TOTAL TRAV DISTANCE =	7751. VEH-MI.	8991. PASS-MI.	37449. VEH-MI.	43441. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		17. VPMPL	
TOTAL FUEL =	410. GALLONS		1983. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		162. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	964.	0.	964.	964.	0.	964.	3850.	0.	0.	0.	.25	50.	9.6	A	17.4	2.3
2	2	2070.	788.	0.	1752.	788.	0.	1752.	3850.	0.	0.	0.	.46	50.	17.5	B	15.9	2.3
3	3	2300.	1648.	296.	3400.	1648.	296.	3400.	5548.	152.	0.	0.	.61	55.	20.6	C	14.0	2.4
4	3	1020.	0.	0.	3104.	0.	0.	3104.	5700.	0.	0.	0.	.54	62.	16.7	B	19.9	4.8
5	3	710.	256.	0.	3360.	256.	0.	3360.	5700.	0.	0.	0.	.59	62.	18.1	C	16.1	4.4
6	3	3820.	372.	768.	3732.	372.	768.	3732.	6150.	0.	0.	0.	.61	62.	20.1	C	17.1	4.8
7	2	1220.	0.	0.	2964.	0.	0.	2964.	4400.	0.	0.	0.	.67	62.	23.9	C	18.2	4.4
8	2	4810.	656.	496.	3620.	656.	496.	3620.	4100.	0.	0.	0.	.88	59.	30.9	D	22.0	2.8
9	2	1370.	0.	0.	3124.	0.	0.	3124.	4000.	0.	0.	0.	.78	61.	25.5	C	24.0	4.0
10	2	660.	224.	0.	3348.	224.	0.	3348.	4385.	15.	0.	0.	.76	62.	27.2	D	23.8	4.1
11	3	790.	624.	576.	3972.	624.	576.	3972.	5599.	501.	0.	0.	.71	62.	21.4	C	30.0	4.4
12	2	1460.	0.	0.	3396.	0.	0.	3396.	4100.	0.	0.	0.	.83	60.	28.1	D	21.4	3.4
13	2	1400.	376.	0.	3772.	376.	0.	3772.	3942.	28.	0.	0.	.96	55.	34.5	D	15.2	2.0
14	2	2600.	0.	908.	3772.	0.	908.	3772.	3942.	28.	0.	0.	.96	55.	34.5	D	23.2	2.0
15	2	2010.	0.	0.	2864.	0.	0.	2864.	3900.	0.	0.	0.	.73	62.	23.1	C	14.7	4.4
16	2	6120.	364.	316.	3228.	364.	316.	3228.	3850.	0.	0.	0.	.84	60.	26.9	D	19.0	3.2
17	2	1240.	0.	0.	2912.	0.	0.	2912.	4300.	0.	0.	0.	.68	62.	23.5	C	18.2	4.4
18	3	930.	252.	0.	3164.	252.	0.	3164.	6100.	0.	0.	0.	.52	62.	17.0	B	20.6	4.4
19	3	5330.	152.	264.	3316.	152.	264.	3316.	6092.	8.	0.	0.	.54	62.	17.8	B	20.6	4.4
20	2	2830.	0.	0.	3052.	0.	0.	3052.	3800.	0.	0.	0.	.80	61.	25.0	C	21.1	3.8
21	3	1660.	468.	380.	3520.	468.	380.	3520.	6067.	33.	0.	0.	.58	61.	19.2	C	21.1	3.8
22	2	2270.	0.	0.	3140.	0.	0.	3140.	4400.	0.	0.	0.	.71	62.	25.4	C	20.6	4.3
23	2	3040.	316.	192.	3456.	316.	192.	3456.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
24	2	2190.	0.	0.	3264.	0.	0.	3264.	4200.	0.	0.	0.	.78	64.	25.6	C	19.8	5.3
25	3	2400.	196.	3460.	3460.	196.	3460.	3460.	6150.	0.	0.	0.	.56	65.	17.7	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.96		LOWEST LOS = D	AVG = 60.	24.1		19.4	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	142. VEH-HRS	164. PASS-HRS	752. VEH-HRS	873. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	164. PASS-HRS	752. VEH-HRS	873. PASS-HRS
TOTAL TRAV DISTANCE =	8511. VEH-MI.	9872. PASS-MI.	45960. VEH-MI.	53314. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	24. VPMPL		18. VPMPL	
TOTAL FUEL =	439. GALLONS		2422. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		195. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1248.	0.	1248.	1248.	0.	1248.	3850.	0.	0.	0.	.32	50.	12.5	B	17.4	2.3
2	2	2070.	740.	0.	1988.	740.	0.	1988.	3850.	0.	0.	0.	.52	50.	19.9	C	15.9	2.3
3	3	2300.	1672.	340.	3660.	1672.	340.	3660.	5516.	184.	0.	0.	.66	55.	22.2	C	14.0	2.4
4	3	1020.	0.	0.	3320.	0.	0.	3320.	5700.	0.	0.	0.	.58	62.	17.8	B	19.9	4.8
5	3	710.	288.	0.	3608.	288.	0.	3608.	5700.	0.	0.	0.	.63	62.	19.4	C	16.1	4.4
6	3	3820.	408.	836.	4016.	408.	836.	4016.	6150.	0.	0.	0.	.65	62.	21.6	C	17.1	4.8
7	2	1220.	0.	0.	3180.	0.	0.	3180.	4400.	0.	0.	0.	.72	62.	25.7	C	18.2	4.3
8	2	4810.	656.	532.	3836.	656.	532.	3836.	4100.	0.	0.	0.	.94	56.	34.3	D	22.8	2.2
9	2	1370.	0.	0.	3304.	0.	0.	3304.	4000.	0.	0.	0.	.83	60.	27.3	D	24.5	3.4
10	2	660.	296.	0.	3600.	296.	0.	3600.	4378.	22.	0.	0.	.82	61.	29.7	D	24.5	3.5
11	3	790.	696.	696.	4296.	696.	696.	4169.	5490.	610.	* 184.	127.	.76	59.	23.7	F	29.9	4.4
12	2	1460.	0.	0.	3600.	0.	0.	3473.	4100.	0.	** 1460.	127.	.85	30.	57.4	F	20.3	3.4
13	2	1400.	396.	0.	3996.	396.	0.	3869.	3869.	101.	0.	0.	1.00	52.	37.5	E	15.7	2.0
14	2	2600.	0.	1096.	3996.	0.	1061.	3869.	3869.	101.	0.	0.	1.00	52.	37.5	E	23.9	2.0
15	2	2010.	0.	0.	2900.	0.	0.	2808.	3900.	0.	0.	0.	.72	62.	22.6	C	14.7	4.4
16	2	6120.	412.	376.	3312.	412.	366.	3220.	3850.	0.	0.	0.	.84	60.	26.8	D	19.0	3.3
17	2	1240.	0.	0.	2936.	0.	0.	2854.	4300.	0.	0.	0.	.66	62.	23.0	C	18.2	4.4
18	3	930.	320.	0.	3256.	320.	0.	3174.	6100.	0.	0.	0.	.52	62.	17.1	B	20.6	4.4
19	3	5330.	152.	332.	3408.	152.	324.	3326.	6088.	12.	0.	0.	.55	62.	17.9	B	20.6	4.4
20	2	2830.	0.	0.	3076.	0.	0.	3002.	3800.	0.	0.	0.	.79	61.	24.6	C	21.1	3.8
21	3	1660.	624.	444.	3700.	624.	435.	3626.	5934.	166.	0.	0.	.61	61.	19.8	C	21.1	3.8
22	2	2270.	0.	0.	3256.	0.	0.	3191.	4400.	0.	0.	0.	.73	62.	25.8	C	20.6	4.3
23	2	3040.	300.	316.	3556.	300.	310.	3491.	4100.	0.	0.	0.	.85	60.	29.2	D	21.7	3.1
24	2	2190.	0.	0.	3240.	0.	0.	3181.	4200.	0.	0.	0.	.76	64.	24.8	C	19.6	5.6
25	3	2400.	200.	3440.	3440.	200.	3381.	3381.	6150.	0.	0.	0.	.55	65.	17.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	25.8		19.4	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	152. VEH-HRS	176. PASS-HRS	904. VEH-HRS	1048. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	152. VEH-HRS	176. PASS-HRS	904. VEH-HRS	1048. PASS-HRS
TOTAL TRAV DISTANCE =	8746. VEH-MI.	10146. PASS-MI.	54706. VEH-MI.	63459. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		61. MPH.	
AVERAGE DENSITY =	26. VPMPL		19. VPMPL	
TOTAL FUEL =	450. GALLONS		2872. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		227. KILOGRAMS	

QUEUE CLEAR SECTION 12 T2 =0.247

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2224.	0.	2224.	2224.	0.	2224.	3850.	0.	0.	0.	.58	50.	22.2	C	17.4	2.3
2	2	2070.	640.	0.	2864.	640.	0.	2864.	3833.	17.	0.	0.	.75	50.	28.6	D	15.9	2.3
3	3	2300.	1508.	380.	4372.	1508.	380.	4372.	5431.	269.	0.	0.	.80	55.	26.5	D	14.0	2.4
4	3	1020.	0.	0.	3992.	0.	0.	3992.	5700.	0.	0.	0.	.70	62.	21.5	C	19.9	4.8
5	3	710.	228.	0.	4220.	228.	0.	4220.	5700.	0.	0.	0.	.74	62.	22.7	C	16.1	4.4
6	3	3820.	284.	1044.	4504.	284.	1044.	4504.	6139.	11.	0.	0.	.73	62.	24.2	C	17.1	4.8
7	2	1220.	0.	0.	3460.	0.	0.	3460.	4400.	0.	0.	0.	.79	61.	28.2	D	18.5	3.9
8	2	4810.	576.	808.	4036.	576.	808.	4036.	4100.	0.	0.	0.	.98	53.	38.2	E	23.7	2.0
9	2	1370.	0.	0.	3228.	0.	0.	3228.	4000.	0.	0.	0.	.81	61.	26.5	D	24.2	3.7
10	2	660.	216.	0.	3444.	216.	0.	3444.	4378.	22.	0.	0.	.79	61.	28.1	D	24.0	3.9
11	3	790.	660.	944.	4104.	660.	944.	4104.	5566.	534.	0.	0.	.74	59.	23.2	C	29.9	4.4
12	2	1460.	0.	0.	3160.	0.	0.	3315.	4100.	0.	0.	-155.	.81	28.	60.0	F	19.4	4.1
13	2	1400.	460.	0.	3620.	460.	0.	3775.	3952.	18.	0.	0.	.96	55.	34.4	D	15.2	2.0
14	2	2600.	0.	800.	3620.	0.	834.	3775.	3952.	18.	0.	0.	.96	55.	34.4	D	23.2	2.0
15	2	2010.	0.	0.	2820.	0.	0.	2941.	3900.	0.	0.	0.	.75	62.	23.7	C	14.7	4.4
16	2	6120.	352.	472.	3172.	352.	490.	3293.	3850.	0.	0.	0.	.86	60.	27.6	D	19.2	3.1
17	2	1240.	0.	0.	2700.	0.	0.	2803.	4300.	0.	0.	0.	.65	62.	22.6	C	18.2	4.4
18	3	930.	332.	0.	3032.	332.	0.	3135.	6100.	0.	0.	0.	.51	62.	16.9	B	20.6	4.4
19	3	5330.	168.	372.	3200.	168.	384.	3303.	6090.	10.	0.	0.	.54	62.	17.8	B	20.6	4.4
20	2	2830.	0.	0.	2828.	0.	0.	2919.	3800.	0.	0.	0.	.77	61.	23.9	C	21.1	3.8
21	3	1660.	452.	372.	3280.	452.	382.	3371.	6084.	16.	0.	0.	.55	61.	18.4	C	21.1	3.8
22	2	2270.	0.	0.	2908.	0.	0.	2988.	4400.	0.	0.	0.	.68	62.	24.1	C	20.6	4.4
23	2	3040.	140.	268.	3048.	140.	275.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
24	2	2190.	0.	0.	2780.	0.	0.	2853.	4200.	0.	0.	0.	.68	65.	21.9	C	19.2	6.1
25	3	2400.	204.	2984.	2984.	204.	3057.	3057.	6150.	0.	0.	0.	.50	65.	15.7	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.98 LOWEST LOS = F AVG = 57. 26.5 19.2 3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	156. VEH-HRS	180. PASS-HRS	1059. VEH-HRS	1229. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	156. VEH-HRS	180. PASS-HRS	1059. VEH-HRS	1229. PASS-HRS
TOTAL TRAV DISTANCE =	8929. VEH-MI.	10357. PASS-MI.	63635. VEH-MI.	73817. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		60. MPH.	
AVERAGE DENSITY =	26. VPMPL		20. VPMPL	
TOTAL FUEL =	465. GALLONS		3337. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		260. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1008.	0.	1008.	1008.	0.	1008.	3850.	0.	0.	0.	.26	50.	10.1	A	17.4	2.3
2	2	2070.	644.	0.	1652.	644.	0.	1652.	3850.	0.	0.	0.	.43	50.	16.5	B	15.9	2.3
3	3	2300.	1620.	388.	3272.	1620.	388.	3272.	5504.	196.	0.	0.	.59	55.	19.8	C	14.0	2.4
4	3	1020.	0.	0.	2884.	0.	0.	2884.	5700.	0.	0.	0.	.51	62.	15.5	B	19.9	4.8
5	3	710.	240.	0.	3124.	240.	0.	3124.	5700.	0.	0.	0.	.55	62.	16.8	B	16.1	4.4
6	3	3820.	416.	992.	3540.	416.	992.	3540.	6150.	0.	0.	0.	.58	62.	19.0	C	17.1	4.8
7	2	1220.	0.	0.	2548.	0.	0.	2548.	4400.	0.	0.	0.	.58	62.	20.5	C	18.2	4.4
8	2	4810.	584.	680.	3132.	584.	680.	3132.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
9	2	1370.	0.	0.	2452.	0.	0.	2452.	4000.	0.	0.	0.	.61	62.	19.8	C	23.6	4.4
10	2	660.	236.	0.	2688.	236.	0.	2688.	4376.	24.	0.	0.	.61	62.	21.7	C	23.6	4.4
11	3	790.	560.	724.	3248.	560.	724.	3248.	5636.	464.	0.	0.	.58	62.	17.5	B	30.0	4.4
12	2	1460.	0.	0.	2524.	0.	0.	2524.	4100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
13	2	1400.	440.	0.	2964.	440.	0.	2964.	3970.	0.	0.	0.	.75	62.	23.9	C	13.6	4.4
14	2	2600.	0.	628.	2964.	0.	628.	2964.	3970.	0.	0.	0.	.75	62.	23.9	C	20.6	4.4
15	2	2010.	0.	0.	2336.	0.	0.	2336.	3900.	0.	0.	0.	.60	62.	18.8	C	14.7	4.4
16	2	6120.	420.	448.	2756.	420.	448.	2756.	3850.	0.	0.	0.	.72	62.	22.2	C	18.2	4.4
17	2	1240.	0.	0.	2308.	0.	0.	2308.	4300.	0.	0.	0.	.54	62.	18.6	C	18.2	4.4
18	3	930.	288.	0.	2596.	288.	0.	2596.	6100.	0.	0.	0.	.43	62.	14.0	B	20.6	4.4
19	3	5330.	120.	424.	2716.	120.	424.	2716.	6100.	0.	0.	0.	.45	62.	14.6	B	20.6	4.4
20	2	2830.	0.	0.	2292.	0.	0.	2292.	3800.	0.	0.	0.	.60	61.	18.8	C	21.1	3.8
21	3	1660.	492.	452.	2784.	492.	452.	2784.	6026.	74.	0.	0.	.46	61.	15.2	B	21.1	3.8
22	2	2270.	0.	0.	2332.	0.	0.	2332.	4400.	0.	0.	0.	.53	62.	18.8	C	20.6	4.4
23	2	3040.	200.	284.	2532.	200.	284.	2532.	4100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
24	2	2190.	0.	0.	2248.	0.	0.	2248.	4200.	0.	0.	0.	.54	65.	17.3	B	19.2	6.1
25	3	2400.	152.	2400.	2400.	152.	2400.	2400.	6150.	0.	0.	0.	.39	65.	12.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.76 LOWEST LOS = C AVG = 61. 19.2 18.8 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	114. VEH-HRS	132. PASS-HRS	1173. VEH-HRS	1361. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	114. VEH-HRS	132. PASS-HRS	1173. VEH-HRS	1361. PASS-HRS
TOTAL TRAV DISTANCE =	6991. VEH-MI.	8109. PASS-MI.	70626. VEH-MI.	81926. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	373. GALLONS		3709. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		290. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1572.	0.	1572.	1572.	0.	1572.	3850.	0.	0.	0.	.41	50.	15.7	B	17.4	2.3
2	2	2070.	596.	0.	2168.	596.	0.	2168.	3848.	2.	0.	0.	.56	50.	21.7	C	15.9	2.3
3	3	2300.	1724.	324.	3892.	1724.	324.	3892.	5516.	184.	0.	0.	.71	55.	23.6	C	14.0	2.4
4	3	1020.	0.	0.	3568.	0.	0.	3568.	5700.	0.	0.	0.	.63	62.	19.2	C	19.9	4.8
5	3	710.	272.	0.	3840.	272.	0.	3840.	5700.	0.	0.	0.	.67	62.	20.6	C	16.1	4.4
6	3	3820.	348.	952.	4188.	348.	952.	4188.	6150.	0.	0.	0.	.68	62.	22.5	C	17.1	4.8
7	2	1220.	0.	0.	3236.	0.	0.	3236.	4400.	0.	0.	0.	.74	62.	26.2	D	18.2	4.2
8	2	4810.	652.	764.	3888.	652.	764.	3888.	4100.	0.	0.	0.	.95	55.	35.2	E	23.1	2.0
9	2	1370.	0.	0.	3124.	0.	0.	3124.	4000.	0.	0.	0.	.78	61.	25.5	C	24.0	4.0
10	2	660.	228.	0.	3352.	228.	0.	3352.	4380.	20.	0.	0.	.77	62.	27.2	D	23.8	4.1
11	3	790.	508.	728.	3860.	508.	728.	3860.	5664.	436.	0.	0.	.68	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3132.	0.	0.	3132.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
13	2	1400.	412.	0.	3544.	412.	0.	3544.	3970.	0.	0.	0.	.89	58.	30.5	D	14.5	2.7
14	2	2600.	0.	728.	3544.	0.	728.	3544.	3970.	0.	0.	0.	.89	58.	30.5	D	22.2	2.7
15	2	2010.	0.	0.	2816.	0.	0.	2816.	3900.	0.	0.	0.	.72	62.	22.7	C	14.7	4.4
16	2	6120.	284.	524.	3100.	284.	524.	3100.	3850.	0.	0.	0.	.81	61.	25.5	C	18.6	3.7
17	2	1240.	0.	0.	2576.	0.	0.	2576.	4300.	0.	0.	0.	.60	62.	20.8	C	18.2	4.4
18	3	930.	224.	0.	2800.	224.	0.	2800.	6100.	0.	0.	0.	.46	62.	15.1	B	20.6	4.4
19	3	5330.	108.	424.	2908.	108.	424.	2908.	6096.	4.	0.	0.	.48	62.	15.6	B	20.6	4.4
20	2	2830.	0.	0.	2484.	0.	0.	2484.	3800.	0.	0.	0.	.65	61.	20.4	C	21.1	3.8
21	3	1660.	428.	404.	2912.	428.	404.	2912.	6083.	17.	0.	0.	.48	61.	15.9	B	21.1	3.8
22	2	2270.	0.	0.	2508.	0.	0.	2508.	4400.	0.	0.	0.	.57	62.	20.2	C	20.6	4.4
23	2	3040.	196.	256.	2704.	196.	256.	2704.	4100.	0.	0.	0.	.66	62.	21.8	C	20.6	4.4
24	2	2190.	0.	0.	2448.	0.	0.	2448.	4200.	0.	0.	0.	.58	65.	18.8	C	19.2	6.1
25	3	2400.	156.	2604.	2604.	156.	2604.	2604.	6150.	0.	0.	0.	.42	65.	13.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.95		LOWEST LOS = E	AVG = 60.	22.8		19.1	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	1308. VEH-HRS	1518. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	1308. VEH-HRS	1518. PASS-HRS
TOTAL TRAV DISTANCE =	8089. VEH-MI.	9384. PASS-MI.	78715. VEH-MI.	91309. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		20. VPMPL	
TOTAL FUEL =	424. GALLONS		4133. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		321. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1240.	0.	1240.	1240.	0.	1240.	3850.	0.	0.	0.	.32	50.	12.4	B	17.4	2.3
2	2	2070.	680.	0.	1920.	680.	0.	1920.	3850.	0.	0.	0.	.50	50.	19.2	C	15.9	2.3
3	3	2300.	1744.	344.	3664.	1744.	344.	3664.	5520.	180.	0.	0.	.66	55.	22.2	C	14.0	2.4
4	3	1020.	0.	0.	3320.	0.	0.	3320.	5700.	0.	0.	0.	.58	62.	17.8	B	19.9	4.8
5	3	710.	212.	0.	3532.	212.	0.	3532.	5700.	0.	0.	0.	.62	62.	19.0	C	16.1	4.4
6	3	3820.	332.	936.	3864.	332.	936.	3864.	6150.	0.	0.	0.	.63	62.	20.8	C	17.1	4.8
7	2	1220.	0.	0.	2928.	0.	0.	2928.	4400.	0.	0.	0.	.67	62.	23.6	C	18.2	4.4
8	2	4810.	592.	692.	3520.	592.	692.	3520.	4100.	0.	0.	0.	.86	59.	29.6	D	21.8	3.1
9	2	1370.	0.	0.	2828.	0.	0.	2828.	4000.	0.	0.	0.	.71	62.	22.8	C	23.6	4.4
10	2	660.	232.	0.	3060.	232.	0.	3060.	4376.	24.	0.	0.	.70	62.	24.7	C	23.6	4.4
11	3	790.	648.	820.	3708.	648.	820.	3708.	5568.	532.	0.	0.	.67	62.	19.9	C	30.0	4.4
12	2	1460.	0.	0.	2888.	0.	0.	2888.	4100.	0.	0.	0.	.70	62.	23.3	C	20.6	4.4
13	2	1400.	360.	0.	3248.	360.	0.	3248.	3909.	61.	0.	0.	.83	60.	26.9	D	14.0	3.4
14	2	2600.	0.	1052.	3248.	0.	1052.	3248.	3909.	61.	0.	0.	.83	60.	26.9	D	21.5	3.4
15	2	2010.	0.	0.	2196.	0.	0.	2196.	3900.	0.	0.	0.	.56	62.	17.7	B	14.7	4.4
16	2	6120.	332.	612.	2528.	332.	612.	2528.	3850.	0.	0.	0.	.66	62.	20.4	C	18.2	4.4
17	2	1240.	0.	0.	1916.	0.	0.	1916.	4300.	0.	0.	0.	.45	62.	15.5	B	18.2	4.4
18	3	930.	228.	0.	2144.	228.	0.	2144.	6100.	0.	0.	0.	.35	62.	11.5	B	20.6	4.4
19	3	5330.	116.	356.	2260.	116.	356.	2260.	6100.	0.	0.	0.	.37	62.	12.2	B	20.6	4.4
20	2	2830.	0.	0.	1904.	0.	0.	1904.	3800.	0.	0.	0.	.50	61.	15.6	B	21.1	3.8
21	3	1660.	376.	372.	2280.	376.	372.	2280.	6100.	0.	0.	0.	.37	61.	12.5	B	21.1	3.8
22	2	2270.	0.	0.	1908.	0.	0.	1908.	4400.	0.	0.	0.	.43	62.	15.4	B	20.6	4.4
23	2	3040.	144.	240.	2052.	144.	240.	2052.	4100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
24	2	2190.	0.	0.	1812.	0.	0.	1812.	4200.	0.	0.	0.	.43	65.	13.9	B	19.2	6.1
25	3	2400.	100.	1912.	1912.	100.	1912.	1912.	6150.	0.	0.	0.	.31	65.	9.8	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.86		LOWEST LOS = D	AVG = 61.	19.1		18.8	4.1

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 12 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	113. VEH-HRS	131. PASS-HRS	1421. VEH-HRS	1649. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	113. VEH-HRS	131. PASS-HRS	1421. VEH-HRS	1649. PASS-HRS
TOTAL TRAV DISTANCE =	6857. VEH-MI.	7954. PASS-MI.	85572. VEH-MI.	99263. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	364. GALLONS		4497. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		349. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1872.	0.	1872.	1872.	0.	1872.	3850.	0.	0.	0.	.49	50.	18.7	C	17.4	2.3
2	2	2070.	612.	0.	2484.	612.	0.	2484.	3843.	7.	0.	0.	.65	50.	24.8	C	15.9	2.3
3	3	2300.	1352.	204.	3836.	1352.	204.	3836.	5566.	134.	0.	0.	.69	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3632.	0.	0.	3632.	5700.	0.	0.	0.	.64	62.	19.5	C	19.9	4.8
5	3	710.	216.	0.	3848.	216.	0.	3848.	5700.	0.	0.	0.	.68	62.	20.7	C	16.1	4.4
6	3	3820.	396.	784.	4244.	396.	784.	4244.	6150.	0.	0.	0.	.69	62.	22.8	C	17.1	4.8
7	2	1220.	0.	0.	3460.	0.	0.	3460.	4400.	0.	0.	0.	.79	61.	28.2	D	18.5	3.9
8	2	4810.	596.	656.	4056.	596.	656.	4056.	4100.	0.	0.	0.	.99	52.	38.7	E	23.7	2.0
9	2	1370.	0.	0.	3400.	0.	0.	3400.	4000.	0.	0.	0.	.85	60.	28.5	D	24.9	3.1
10	2	660.	156.	0.	3556.	156.	0.	3556.	4389.	11.	0.	0.	.81	61.	29.2	D	24.3	3.7
11	3	790.	616.	668.	4172.	616.	668.	4172.	5571.	529.	0.	0.	.75	62.	22.4	C	30.0	4.4
12	2	1460.	0.	0.	3504.	0.	0.	3451.	4100.	0. *	718.	53.	.84	42.	40.8	F	21.1	3.3
13	2	1400.	380.	0.	3884.	380.	0.	3831.	3831.	139.	0.	0.	1.00	52.	37.2	E	15.7	2.0
14	2	2600.	0.	1308.	3884.	0.	1290.	3831.	3831.	139.	0.	0.	1.00	52.	37.2	E	23.9	2.0
15	2	2010.	0.	0.	2576.	0.	0.	2541.	3900.	0.	0.	0.	.65	62.	20.5	C	14.7	4.4
16	2	6120.	256.	596.	2832.	256.	589.	2797.	3850.	0.	0.	0.	.73	62.	22.6	C	18.2	4.4
17	2	1240.	0.	0.	2236.	0.	0.	2208.	4300.	0.	0.	0.	.51	62.	17.8	B	18.2	4.4
18	3	930.	264.	0.	2500.	264.	0.	2472.	6100.	0.	0.	0.	.41	62.	13.3	B	20.6	4.4
19	3	5330.	96.	364.	2596.	96.	360.	2568.	6100.	0.	0.	0.	.42	62.	13.8	B	20.6	4.4
20	2	2830.	0.	0.	2232.	0.	0.	2208.	3800.	0.	0.	0.	.58	61.	18.1	C	21.1	3.8
21	3	1660.	328.	284.	2560.	328.	281.	2536.	6100.	0.	0.	0.	.42	61.	13.9	B	21.1	3.8
22	2	2270.	0.	0.	2276.	0.	0.	2255.	4400.	0.	0.	0.	.51	62.	18.2	C	20.6	4.4
23	2	3040.	100.	224.	2376.	100.	222.	2355.	4100.	0.	0.	0.	.57	62.	19.0	C	20.6	4.4
24	2	2190.	0.	0.	2152.	0.	0.	2133.	4200.	0.	0.	0.	.51	65.	16.4	B	19.2	6.1
25	3	2400.	116.	2268.	2268.	116.	2249.	2249.	6150.	0.	0.	0.	.37	65.	11.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	23.1		19.3	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	1557. VEH-HRS	1806. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	157. PASS-HRS	1557. VEH-HRS	1806. PASS-HRS
TOTAL TRAV DISTANCE =	7849. VEH-MI.	9105. PASS-MI.	93420. VEH-MI.	108368. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		20. VPMPL	
TOTAL FUEL =	407. GALLONS		4904. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		379. KILOGRAMS	

QUEUE CLEAR SECTION 12 FT= 114

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1680.	0.	1680.	1680.	0.	1680.	3850.	0.	0.	0.	.44	50.	16.8	B	17.4	2.3
2	2	2070.	588.	0.	2268.	588.	0.	2268.	3845.	5.	0.	0.	.59	50.	22.7	C	15.9	2.3
3	3	2300.	1412.	332.	3680.	1412.	332.	3680.	5489.	211.	0.	0.	.67	55.	22.3	C	14.0	2.4
4	3	1020.	0.	0.	3348.	0.	0.	3348.	5700.	0.	0.	0.	.59	62.	18.0	B	19.9	4.8
5	3	710.	172.	0.	3520.	172.	0.	3520.	5700.	0.	0.	0.	.62	62.	18.9	C	16.1	4.4
6	3	3820.	276.	700.	3796.	276.	700.	3796.	6150.	0.	0.	0.	.62	62.	20.4	C	17.1	4.8
7	2	1220.	0.	0.	3096.	0.	0.	3096.	4400.	0.	0.	0.	.70	62.	25.0	C	18.2	4.3
8	2	4810.	524.	660.	3620.	524.	660.	3620.	4100.	0.	0.	0.	.88	59.	30.9	D	22.0	2.8
9	2	1370.	0.	0.	2960.	0.	0.	2960.	4000.	0.	0.	0.	.74	62.	23.9	C	23.6	4.4
10	2	660.	252.	0.	3212.	252.	0.	3212.	4384.	16.	0.	0.	.73	62.	26.0	C	23.7	4.3
11	3	790.	504.	536.	3716.	504.	536.	3716.	5648.	452.	0.	0.	.66	62.	20.0	C	30.0	4.4
12	2	1460.	0.	0.	3180.	0.	0.	3235.	4100.	0.	0.	-55.	.79	37.	43.7	E	19.9	4.1
13	2	1400.	272.	0.	3452.	272.	0.	3507.	3907.	63.	0.	0.	.90	58.	30.3	D	14.5	2.7
14	2	2600.	0.	1172.	3452.	0.	1191.	3507.	3907.	63.	0.	0.	.90	58.	30.3	D	22.2	2.7
15	2	2010.	0.	0.	2280.	0.	0.	2317.	3900.	0.	0.	0.	.59	62.	18.7	C	14.7	4.4
16	2	6120.	264.	572.	2544.	264.	580.	2581.	3850.	0.	0.	0.	.67	62.	20.8	C	18.2	4.4
17	2	1240.	0.	0.	1972.	0.	0.	2000.	4300.	0.	0.	0.	.47	62.	16.1	B	18.2	4.4
18	3	930.	288.	0.	2260.	288.	0.	2288.	6100.	0.	0.	0.	.38	62.	12.3	B	20.6	4.4
19	3	5330.	108.	336.	2368.	108.	340.	2396.	6100.	0.	0.	0.	.39	62.	12.9	B	20.6	4.4
20	2	2830.	0.	0.	2032.	0.	0.	2056.	3800.	0.	0.	0.	.54	61.	16.9	B	21.1	3.8
21	3	1660.	312.	380.	2344.	312.	384.	2368.	6100.	0.	0.	0.	.39	61.	12.9	B	21.1	3.8
22	2	2270.	0.	0.	1964.	0.	0.	1984.	4400.	0.	0.	0.	.45	62.	16.0	B	20.6	4.4
23	2	3040.	120.	192.	2084.	120.	194.	2104.	4100.	0.	0.	0.	.51	62.	17.0	B	20.6	4.4
24	2	2190.	0.	0.	1892.	0.	0.	1911.	4200.	0.	0.	0.	.45	65.	14.7	B	19.2	6.1
25	3	2400.	60.	1952.	1952.	60.	1971.	1971.	6150.	0.	0.	0.	.32	65.	10.1	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.90		LOWEST LOS = E	AVG = 59.	20.5		18.9	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	1677. VEH-HRS	1946. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	121. VEH-HRS	140. PASS-HRS	1677. VEH-HRS	1946. PASS-HRS
TOTAL TRAV DISTANCE =	7141. VEH-MI.	8283. PASS-MI.	100561. VEH-MI.	116651. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		20. VPMPL	
TOTAL FUEL =	378. GALLONS		5282. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		407. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1420.	0.	1420.	1420.	0.	1420.	3850.	0.	0.	0.	.37	50.	14.2	B	17.4	2.3
2	2	2070.	576.	0.	1996.	576.	0.	1996.	3850.	0.	0.	0.	.52	50.	20.0	C	15.9	2.3
3	3	2300.	1432.	264.	3428.	1432.	264.	3428.	5556.	144.	0.	0.	.62	55.	20.8	C	14.0	2.4
4	3	1020.	0.	0.	3164.	0.	0.	3164.	5700.	0.	0.	0.	.56	62.	17.0	B	19.9	4.8
5	3	710.	176.	0.	3340.	176.	0.	3340.	5700.	0.	0.	0.	.59	62.	18.0	B	16.1	4.4
6	3	3820.	288.	760.	3628.	288.	760.	3628.	6150.	0.	0.	0.	.59	62.	19.5	C	17.1	4.8
7	2	1220.	0.	0.	2868.	0.	0.	2868.	4400.	0.	0.	0.	.65	62.	23.1	C	18.2	4.4
8	2	4810.	408.	744.	3276.	408.	744.	3276.	4100.	0.	0.	0.	.80	61.	26.8	D	21.1	3.8
9	2	1370.	0.	0.	2532.	0.	0.	2532.	4000.	0.	0.	0.	.63	62.	20.4	C	23.6	4.4
10	2	660.	224.	0.	2756.	224.	0.	2756.	4382.	18.	0.	0.	.63	62.	22.2	C	23.6	4.4
11	3	790.	464.	596.	3220.	464.	596.	3220.	5698.	402.	0.	0.	.57	62.	17.3	B	30.0	4.4
12	2	1460.	0.	0.	2624.	0.	0.	2624.	4100.	0.	0.	0.	.64	62.	21.2	C	20.6	4.4
13	2	1400.	296.	0.	2920.	296.	0.	2920.	3970.	0.	0.	0.	.74	62.	23.5	C	13.6	4.4
14	2	2600.	0.	576.	2920.	0.	576.	2920.	3970.	0.	0.	0.	.74	62.	23.5	C	20.6	4.4
15	2	2010.	0.	0.	2344.	0.	0.	2344.	3900.	0.	0.	0.	.60	62.	18.9	C	14.7	4.4
16	2	6120.	308.	484.	2652.	308.	484.	2652.	3850.	0.	0.	0.	.69	62.	21.4	C	18.2	4.4
17	2	1240.	0.	0.	2168.	0.	0.	2168.	4300.	0.	0.	0.	.50	62.	17.5	B	18.2	4.4
18	3	930.	320.	0.	2488.	320.	0.	2488.	6100.	0.	0.	0.	.41	62.	13.4	B	20.6	4.4
19	3	5330.	116.	428.	2604.	116.	428.	2604.	6100.	0.	0.	0.	.43	62.	14.0	B	20.6	4.4
20	2	2830.	0.	0.	2176.	0.	0.	2176.	3800.	0.	0.	0.	.57	61.	17.8	B	21.1	3.8
21	3	1660.	244.	324.	2420.	244.	324.	2420.	6100.	0.	0.	0.	.40	61.	13.2	B	21.1	3.8
22	2	2270.	0.	0.	2096.	0.	0.	2096.	4400.	0.	0.	0.	.48	62.	16.9	B	20.6	4.4
23	2	3040.	72.	172.	2168.	72.	172.	2168.	4100.	0.	0.	0.	.53	62.	17.5	B	20.6	4.4
24	2	2190.	0.	0.	1996.	0.	0.	1996.	4200.	0.	0.	0.	.48	65.	15.4	B	19.2	6.1
25	3	2400.	96.	2092.	2092.	96.	2092.	2092.	6150.	0.	0.	0.	.34	65.	10.7	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 61.	19.0		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	113. VEH-HRS	131. PASS-HRS	1790. VEH-HRS	2077. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	113. VEH-HRS	131. PASS-HRS	1790. VEH-HRS	2077. PASS-HRS
TOTAL TRAV DISTANCE =	6890. VEH-MI.	7993. PASS-MI.	107451. VEH-MI.	124643. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	19. VPMPL		20. VPMPL	
TOTAL FUEL =	368. GALLONS		5650. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		436. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1464.	0.	1464.	1464.	0.	1464.	3850.	0.	0.	0.	.38	50.	14.6	B	17.4	2.3
2	2	2070.	536.	0.	2000.	536.	0.	2000.	3850.	0.	0.	0.	.52	50.	20.0	C	15.9	2.3
3	3	2300.	1520.	296.	3520.	1520.	296.	3520.	5532.	168.	0.	0.	.64	55.	21.3	C	14.0	2.4
4	3	1020.	0.	0.	3224.	0.	0.	3224.	5700.	0.	0.	0.	.57	62.	17.3	B	19.9	4.8
5	3	710.	156.	0.	3380.	156.	0.	3380.	5700.	0.	0.	0.	.59	62.	18.2	C	16.1	4.4
6	3	3820.	396.	860.	3776.	396.	860.	3776.	6150.	0.	0.	0.	.61	62.	20.3	C	17.1	4.8
7	2	1220.	0.	0.	2916.	0.	0.	2916.	4400.	0.	0.	0.	.66	62.	23.5	C	18.2	4.4
8	2	4810.	524.	688.	3440.	524.	688.	3440.	4100.	0.	0.	0.	.84	60.	28.6	D	21.6	3.2
9	2	1370.	0.	0.	2752.	0.	0.	2752.	4000.	0.	0.	0.	.69	62.	22.2	C	23.6	4.4
10	2	660.	172.	0.	2924.	172.	0.	2924.	4384.	16.	0.	0.	.67	62.	23.6	C	23.6	4.4
11	3	790.	484.	724.	3408.	484.	724.	3408.	5700.	400.	0.	0.	.60	62.	18.3	C	30.0	4.4
12	2	1460.	0.	0.	2684.	0.	0.	2684.	4100.	0.	0.	0.	.65	62.	21.6	C	20.6	4.4
13	2	1400.	380.	0.	3064.	380.	0.	3064.	3970.	0.	0.	0.	.77	62.	24.7	C	13.6	4.4
14	2	2600.	0.	512.	3064.	0.	512.	3064.	3970.	0.	0.	0.	.77	62.	24.7	C	20.6	4.4
15	2	2010.	0.	0.	2552.	0.	0.	2552.	3900.	0.	0.	0.	.65	62.	20.6	C	14.7	4.4
16	2	6120.	284.	516.	2836.	284.	516.	2836.	3850.	0.	0.	0.	.74	62.	22.9	C	18.2	4.4
17	2	1240.	0.	0.	2320.	0.	0.	2320.	4300.	0.	0.	0.	.54	62.	18.7	C	18.2	4.4
18	3	930.	232.	0.	2552.	232.	0.	2552.	6100.	0.	0.	0.	.42	62.	13.7	B	20.6	4.4
19	3	5330.	136.	456.	2688.	136.	456.	2688.	6100.	0.	0.	0.	.44	62.	14.5	B	20.6	4.4
20	2	2830.	0.	0.	2232.	0.	0.	2232.	3800.	0.	0.	0.	.59	61.	18.3	C	21.1	3.8
21	3	1660.	296.	416.	2528.	296.	416.	2528.	6100.	0.	0.	0.	.41	61.	13.8	B	21.1	3.8
22	2	2270.	0.	0.	2112.	0.	0.	2112.	4400.	0.	0.	0.	.48	62.	17.0	B	20.6	4.4
23	2	3040.	96.	224.	2208.	96.	224.	2208.	4100.	0.	0.	0.	.54	62.	17.8	B	20.6	4.4
24	2	2190.	0.	0.	1984.	0.	0.	1984.	4200.	0.	0.	0.	.47	65.	15.3	B	19.2	6.1
25	3	2400.	72.	2056.	2056.	72.	2056.	2056.	6150.	0.	0.	0.	.33	65.	10.5	A	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.84 LOWEST LOS = D AVG = 61. 19.8 18.8 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	117. VEH-HRS	136. PASS-HRS	1907. VEH-HRS	2213. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	117. VEH-HRS	136. PASS-HRS	1907. VEH-HRS	2213. PASS-HRS
TOTAL TRAV DISTANCE =	7155. VEH-MI.	8300. PASS-MI.	114606. VEH-MI.	132943. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		20. VPMPL	
TOTAL FUEL =	381. GALLONS		6031. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		466. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1736.	0.	1736.	1736.	0.	1736.	3850.	0.	0.	0.	.45	50.	17.4	B	17.4	2.3
2	2	2070.	588.	0.	2324.	588.	0.	2324.	3844.	6.	0.	0.	.60	50.	23.2	C	15.9	2.3
3	3	2300.	1248.	244.	3572.	1248.	244.	3572.	5550.	150.	0.	0.	.64	55.	21.6	C	14.0	2.4
4	3	1020.	0.	0.	3328.	0.	0.	3328.	5700.	0.	0.	0.	.58	62.	17.9	B	19.9	4.8
5	3	710.	168.	0.	3496.	168.	0.	3496.	5700.	0.	0.	0.	.61	62.	18.8	C	16.1	4.4
6	3	3820.	320.	832.	3816.	320.	832.	3816.	6150.	0.	0.	0.	.62	62.	20.5	C	17.1	4.8
7	2	1220.	0.	0.	2984.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	18.2	4.4
8	2	4810.	480.	840.	3464.	480.	840.	3464.	4100.	0.	0.	0.	.84	60.	28.9	D	21.7	3.2
9	2	1370.	0.	0.	2624.	0.	0.	2624.	4000.	0.	0.	0.	.66	62.	21.2	C	23.6	4.4
10	2	660.	136.	0.	2760.	136.	0.	2760.	4387.	13.	0.	0.	.63	62.	22.3	C	23.6	4.4
11	3	790.	568.	644.	3328.	568.	644.	3328.	5625.	475.	0.	0.	.59	62.	17.9	B	30.0	4.4
12	2	1460.	0.	0.	2684.	0.	0.	2684.	4100.	0.	0.	0.	.65	62.	21.6	C	20.6	4.4
13	2	1400.	364.	0.	3048.	364.	0.	3048.	3970.	0.	0.	0.	.77	62.	24.6	C	13.6	4.4
14	2	2600.	0.	504.	3048.	0.	504.	3048.	3970.	0.	0.	0.	.77	62.	24.6	C	20.6	4.4
15	2	2010.	0.	0.	2544.	0.	0.	2544.	3900.	0.	0.	0.	.65	62.	20.5	C	14.7	4.4
16	2	6120.	244.	624.	2788.	244.	624.	2788.	3850.	0.	0.	0.	.72	62.	22.5	C	18.2	4.4
17	2	1240.	0.	0.	2164.	0.	0.	2164.	4300.	0.	0.	0.	.50	62.	17.5	B	18.2	4.4
18	3	930.	252.	0.	2416.	252.	0.	2416.	6100.	0.	0.	0.	.40	62.	13.0	B	20.6	4.4
19	3	5330.	120.	436.	2536.	120.	436.	2536.	6100.	0.	0.	0.	.42	62.	13.6	B	20.6	4.4
20	2	2830.	0.	0.	2100.	0.	0.	2100.	3800.	0.	0.	0.	.55	61.	17.2	B	21.1	3.8
21	3	1660.	228.	368.	2328.	228.	368.	2328.	6100.	0.	0.	0.	.38	61.	12.7	B	21.1	3.8
22	2	2270.	0.	0.	1960.	0.	0.	1960.	4400.	0.	0.	0.	.45	62.	15.8	B	20.6	4.4
23	2	3040.	88.	228.	2048.	88.	228.	2048.	4100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
24	2	2190.	0.	0.	1820.	0.	0.	1820.	4200.	0.	0.	0.	.43	65.	14.0	B	19.2	6.1
25	3	2400.	64.	1884.	1884.	64.	1884.	1884.	6150.	0.	0.	0.	.31	65.	9.7	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.84		LOWEST LOS = D	AVG = 61.	19.5		18.7	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 17 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	134. PASS-HRS	2023. VEH-HRS	2347. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	115. VEH-HRS	134. PASS-HRS	2023. VEH-HRS	2347. PASS-HRS
TOTAL TRAV DISTANCE =	7027. VEH-MI.	8152. PASS-MI.	121634. VEH-MI.	141095. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		20. VPMPL	
TOTAL FUEL =	376. GALLONS		6407. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		496. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1752.	0.	1752.	1752.	0.	1752.	3850.	0.	0.	0.	.46	50.	17.5	B	17.4	2.3
2	2	2070.	604.	0.	2356.	604.	0.	2356.	3844.	6.	0.	0.	.61	50.	23.6	C	15.9	2.3
3	3	2300.	1328.	244.	3684.	1328.	244.	3684.	5544.	156.	0.	0.	.66	55.	22.3	C	14.0	2.4
4	3	1020.	0.	0.	3440.	0.	0.	3440.	5700.	0.	0.	0.	.60	62.	18.5	C	19.9	4.8
5	3	710.	208.	0.	3648.	208.	0.	3648.	5700.	0.	0.	0.	.64	62.	19.6	C	16.1	4.4
6	3	3820.	392.	860.	4040.	392.	860.	4040.	6150.	0.	0.	0.	.66	62.	21.7	C	17.1	4.8
7	2	1220.	0.	0.	3180.	0.	0.	3180.	4400.	0.	0.	0.	.72	62.	25.7	C	18.2	4.3
8	2	4810.	456.	776.	3636.	456.	776.	3636.	4100.	0.	0.	0.	.89	58.	31.1	D	22.1	2.8
9	2	1370.	0.	0.	2860.	0.	0.	2860.	4000.	0.	0.	0.	.71	62.	23.1	C	23.6	4.4
10	2	660.	192.	0.	3052.	192.	0.	3052.	4385.	15.	0.	0.	.70	62.	24.6	C	23.6	4.4
11	3	790.	596.	640.	3648.	596.	640.	3648.	5591.	509.	0.	0.	.65	62.	19.6	C	30.0	4.4
12	2	1460.	0.	0.	3008.	0.	0.	3008.	4100.	0.	0.	0.	.73	62.	24.3	C	20.6	4.4
13	2	1400.	384.	0.	3392.	384.	0.	3392.	3970.	0.	0.	0.	.85	60.	28.5	D	14.2	3.1
14	2	2600.	0.	628.	3392.	0.	628.	3392.	3970.	0.	0.	0.	.85	60.	28.5	D	21.7	3.1
15	2	2010.	0.	0.	2764.	0.	0.	2764.	3900.	0.	0.	0.	.71	62.	22.3	C	14.7	4.4
16	2	6120.	276.	556.	3040.	276.	556.	3040.	3850.	0.	0.	0.	.79	62.	24.5	C	18.2	4.4
17	2	1240.	0.	0.	2484.	0.	0.	2484.	4300.	0.	0.	0.	.58	62.	20.0	C	18.2	4.4
18	3	930.	300.	0.	2784.	300.	0.	2784.	6100.	0.	0.	0.	.46	62.	15.0	B	20.6	4.4
19	3	5330.	108.	416.	2892.	108.	416.	2892.	6094.	6.	0.	0.	.47	62.	15.5	B	20.6	4.4
20	2	2830.	0.	0.	2476.	0.	0.	2476.	3800.	0.	0.	0.	.65	61.	20.3	C	21.1	3.8
21	3	1660.	304.	356.	2780.	304.	356.	2780.	6100.	0.	0.	0.	.46	61.	15.2	B	21.1	3.8
22	2	2270.	0.	0.	2424.	0.	0.	2424.	4400.	0.	0.	0.	.55	62.	19.5	C	20.6	4.4
23	2	3040.	72.	260.	2496.	72.	260.	2496.	4100.	0.	0.	0.	.61	62.	20.1	C	20.6	4.4
24	2	2190.	0.	0.	2236.	0.	0.	2236.	4200.	0.	0.	0.	.53	65.	17.2	B	19.2	6.1
25	3	2400.	88.	2324.	2324.	88.	2324.	2324.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 61.	21.7		18.9	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	149. PASS-HRS	2151. VEH-HRS	2495. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	128. VEH-HRS	149. PASS-HRS	2151. VEH-HRS	2495. PASS-HRS
TOTAL TRAV DISTANCE =	7781. VEH-MI.	9026. PASS-MI.	129414. VEH-MI.	150121. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		20. VPMPL	
TOTAL FUEL =	412. GALLONS		6819. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		527. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1708.	0.	1708.	1708.	0.	1708.	3850.	0.	0.	0.	.44	50.	17.1	B	17.4	2.3
2	2	2070.	580.	0.	2288.	580.	0.	2288.	3845.	5.	0.	0.	.60	50.	22.9	C	15.9	2.3
3	3	2300.	1300.	244.	3588.	1300.	244.	3588.	5553.	147.	0.	0.	.65	55.	21.7	C	14.0	2.4
4	3	1020.	0.	0.	3344.	0.	0.	3344.	5700.	0.	0.	0.	.59	62.	18.0	B	19.9	4.8
5	3	710.	204.	0.	3548.	204.	0.	3548.	5700.	0.	0.	0.	.62	62.	19.1	C	16.1	4.4
6	3	3820.	288.	848.	3836.	288.	848.	3836.	6150.	0.	0.	0.	.62	62.	20.6	C	17.1	4.8
7	2	1220.	0.	0.	2988.	0.	0.	2988.	4400.	0.	0.	0.	.68	62.	24.1	C	18.2	4.4
8	2	4810.	480.	748.	3468.	480.	748.	3468.	4100.	0.	0.	0.	.85	60.	29.0	D	21.7	3.2
9	2	1370.	0.	0.	2720.	0.	0.	2720.	4000.	0.	0.	0.	.68	62.	21.9	C	23.6	4.4
10	2	660.	216.	0.	2936.	216.	0.	2936.	4385.	15.	0.	0.	.67	62.	23.7	C	23.6	4.4
11	3	790.	636.	544.	3572.	636.	544.	3572.	5635.	465.	0.	0.	.63	62.	19.2	C	30.0	4.4
12	2	1460.	0.	0.	3028.	0.	0.	3028.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
13	2	1400.	364.	0.	3392.	364.	0.	3392.	3970.	0.	0.	0.	.85	60.	28.5	D	14.2	3.1
14	2	2600.	0.	724.	3392.	0.	724.	3392.	3970.	0.	0.	0.	.85	60.	28.5	D	21.7	3.1
15	2	2010.	0.	0.	2668.	0.	0.	2668.	3900.	0.	0.	0.	.68	62.	21.5	C	14.7	4.4
16	2	6120.	244.	572.	2912.	244.	572.	2912.	3850.	0.	0.	0.	.76	62.	23.5	C	18.2	4.4
17	2	1240.	0.	0.	2340.	0.	0.	2340.	4300.	0.	0.	0.	.54	62.	18.9	C	18.2	4.4
18	3	930.	296.	0.	2636.	296.	0.	2636.	6100.	0.	0.	0.	.43	62.	14.2	B	20.6	4.4
19	3	5330.	92.	484.	2728.	92.	484.	2728.	6100.	0.	0.	0.	.45	62.	14.7	B	20.6	4.4
20	2	2830.	0.	0.	2244.	0.	0.	2244.	3800.	0.	0.	0.	.59	61.	18.4	C	21.1	3.8
21	3	1660.	304.	408.	2548.	304.	408.	2548.	6100.	0.	0.	0.	.42	61.	13.9	B	21.1	3.8
22	2	2270.	0.	0.	2140.	0.	0.	2140.	4400.	0.	0.	0.	.49	62.	17.3	B	20.6	4.4
23	2	3040.	76.	232.	2216.	76.	232.	2216.	4100.	0.	0.	0.	.54	62.	17.9	B	20.6	4.4
24	2	2190.	0.	0.	1984.	0.	0.	1984.	4200.	0.	0.	0.	.47	65.	15.3	B	19.2	6.1
25	3	2400.	108.	2092.	2092.	108.	2092.	2092.	6150.	0.	0.	0.	.34	65.	10.7	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.85		LOWEST LOS = D	AVG = 61.	20.6		18.8	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	141. PASS-HRS	2273. VEH-HRS	2636. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	122. VEH-HRS	141. PASS-HRS	2273. VEH-HRS	2636. PASS-HRS
TOTAL TRAV DISTANCE =	7379. VEH-MI.	8560. PASS-MI.	136793. VEH-MI.	158680. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		20. VPMPL	
TOTAL FUEL =	392. GALLONS		7211. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		557. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2024.	0.	2024.	2024.	0.	2024.	3850.	0.	0.	0.	.53	50.	20.2	C	17.4	2.3
2	2	2070.	680.	0.	2704.	680.	0.	2704.	3834.	16.	0.	0.	.71	50.	27.0	D	15.9	2.3
3	3	2300.	1528.	384.	4232.	1528.	384.	4232.	5439.	261.	0.	0.	.78	55.	25.6	C	14.0	2.4
4	3	1020.	0.	0.	3848.	0.	0.	3848.	5700.	0.	0.	0.	.68	62.	20.7	C	19.9	4.8
5	3	710.	188.	0.	4036.	188.	0.	4036.	5700.	0.	0.	0.	.71	62.	21.7	C	16.1	4.4
6	3	3820.	384.	864.	4420.	384.	864.	4420.	6150.	0.	0.	0.	.72	62.	23.8	C	17.1	4.8
7	2	1220.	0.	0.	3556.	0.	0.	3556.	4400.	0.	0.	0.	.81	61.	29.2	D	18.7	3.7
8	2	4810.	544.	848.	4100.	544.	848.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
9	2	1370.	0.	0.	3252.	0.	0.	3252.	4000.	0.	0.	0.	.81	61.	26.8	D	24.3	3.6
10	2	660.	256.	0.	3508.	256.	0.	3508.	4380.	20.	0.	0.	.80	61.	28.8	D	24.2	3.8
11	3	790.	656.	712.	4164.	656.	712.	4164.	5532.	568.	0.	0.	.75	62.	22.4	C	30.0	4.4
12	2	1460.	0.	0.	3452.	0.	0.	3452.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
13	2	1400.	396.	0.	3848.	396.	0.	3848.	3897.	73.	0.	0.	.99	53.	36.6	E	15.5	2.0
14	2	2600.	0.	1008.	3848.	0.	1008.	3848.	3897.	73.	0.	0.	.99	53.	36.6	E	23.7	2.0
15	2	2010.	0.	0.	2840.	0.	0.	2840.	3900.	0.	0.	0.	.73	62.	22.9	C	14.7	4.4
16	2	6120.	356.	668.	3196.	356.	668.	3196.	3850.	0.	0.	0.	.83	60.	26.5	D	18.9	3.4
17	2	1240.	0.	0.	2528.	0.	0.	2528.	4300.	0.	0.	0.	.59	62.	20.4	C	18.2	4.4
18	3	930.	432.	0.	2960.	432.	0.	2960.	6100.	0.	0.	0.	.49	62.	15.9	B	20.6	4.4
19	3	5330.	76.	452.	3036.	76.	452.	3036.	6092.	8.	0.	0.	.50	62.	16.3	B	20.6	4.4
20	2	2830.	0.	0.	2584.	0.	0.	2584.	3800.	0.	0.	0.	.68	61.	21.2	C	21.1	3.8
21	3	1660.	248.	368.	2832.	248.	368.	2832.	6100.	0.	0.	0.	.46	61.	15.5	B	21.1	3.8
22	2	2270.	0.	0.	2464.	0.	0.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	20.6	4.4
23	2	3040.	104.	232.	2568.	104.	232.	2568.	4100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
24	2	2190.	0.	0.	2336.	0.	0.	2336.	4200.	0.	0.	0.	.56	65.	18.0	B	19.2	6.1
25	3	2400.	56.	2392.	2392.	56.	2392.	2392.	6150.	0.	0.	0.	.39	65.	12.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = E	AVG = 59.	24.5		19.3	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	144. VEH-HRS	167. PASS-HRS	2417. VEH-HRS	2803. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	144. VEH-HRS	167. PASS-HRS	2417. VEH-HRS	2803. PASS-HRS
TOTAL TRAV DISTANCE =	8436. VEH-MI.	9786. PASS-MI.	145230. VEH-MI.	168467. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		20. VPMPL	
TOTAL FUEL =	437. GALLONS		7648. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		588. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1892.	0.	1892.	1892.	0.	1892.	3850.	0.	0.	0.	.49	50.	18.9	C	17.4	2.3
2	2	2070.	408.	0.	2300.	408.	0.	2300.	3845.	5.	0.	0.	.60	50.	23.0	C	15.9	2.3
3	3	2300.	1416.	232.	3716.	1416.	232.	3716.	5558.	142.	0.	0.	.67	55.	22.5	C	14.0	2.4
4	3	1020.	0.	0.	3484.	0.	0.	3484.	5700.	0.	0.	0.	.61	62.	18.7	C	19.9	4.8
5	3	710.	184.	0.	3668.	184.	0.	3668.	5700.	0.	0.	0.	.64	62.	19.7	C	16.1	4.4
6	3	3820.	324.	788.	3992.	324.	788.	3992.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3204.	0.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	18.2	4.3
8	2	4810.	476.	676.	3680.	476.	676.	3680.	4100.	0.	0.	0.	.90	58.	31.8	D	22.2	2.7
9	2	1370.	0.	0.	3004.	0.	0.	3004.	4000.	0.	0.	0.	.75	62.	24.2	C	23.6	4.4
10	2	660.	260.	0.	3264.	260.	0.	3264.	4378.	22.	0.	0.	.75	62.	26.4	D	23.7	4.2
11	3	790.	664.	736.	3928.	664.	736.	3928.	5534.	566.	0.	0.	.71	62.	21.1	C	30.0	4.4
12	2	1460.	0.	0.	3192.	0.	0.	3192.	4100.	0.	0.	0.	.78	61.	26.0	D	20.9	4.0
13	2	1400.	416.	0.	3608.	416.	0.	3608.	3970.	0.	0.	0.	.91	57.	31.4	D	14.6	2.6
14	2	2600.	0.	724.	3608.	0.	724.	3608.	3970.	0.	0.	0.	.91	57.	31.4	D	22.4	2.6
15	2	2010.	0.	0.	2884.	0.	0.	2884.	3900.	0.	0.	0.	.74	62.	23.3	C	14.7	4.4
16	2	6120.	344.	632.	3228.	344.	632.	3228.	3850.	0.	0.	0.	.84	60.	26.9	D	19.0	3.2
17	2	1240.	0.	0.	2596.	0.	0.	2596.	4300.	0.	0.	0.	.60	62.	20.9	C	18.2	4.4
18	3	930.	452.	0.	3048.	452.	0.	3048.	6100.	0.	0.	0.	.50	62.	16.4	B	20.6	4.4
19	3	5330.	104.	492.	3152.	104.	492.	3152.	6088.	12.	0.	0.	.52	62.	16.9	B	20.6	4.4
20	2	2830.	0.	0.	2660.	0.	0.	2660.	3800.	0.	0.	0.	.70	61.	21.8	C	21.1	3.8
21	3	1660.	308.	412.	2968.	308.	412.	2968.	6100.	0.	0.	0.	.49	61.	16.2	B	21.1	3.8
22	2	2270.	0.	0.	2556.	0.	0.	2556.	4400.	0.	0.	0.	.58	62.	20.6	C	20.6	4.4
23	2	3040.	96.	312.	2652.	96.	312.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	20.6	4.4
24	2	2190.	0.	0.	2340.	0.	0.	2340.	4200.	0.	0.	0.	.56	65.	18.0	C	19.2	6.1
25	3	2400.	68.	2408.	2408.	68.	2408.	2408.	6150.	0.	0.	0.	.39	65.	12.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.91		LOWEST LOS = D	AVG = 60.	22.9		19.1	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	2552. VEH-HRS	2960. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	135. VEH-HRS	156. PASS-HRS	2552. VEH-HRS	2960. PASS-HRS
TOTAL TRAV DISTANCE =	8114. VEH-MI.	9412. PASS-MI.	153344. VEH-MI.	177879. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		21. VPMPL	
TOTAL FUEL =	425. GALLONS		8072. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		620. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1652.	0.	1652.	1652.	0.	1652.	3850.	0.	0.	0.	.43	50.	16.5	B	17.4	2.3
2	2	2070.	528.	0.	2180.	528.	0.	2180.	3846.	4.	0.	0.	.57	50.	21.8	C	15.9	2.3
3	3	2300.	1380.	296.	3560.	1380.	296.	3560.	5524.	176.	0.	0.	.64	55.	21.6	C	14.0	2.4
4	3	1020.	0.	0.	3264.	0.	0.	3264.	5700.	0.	0.	0.	.57	62.	17.5	B	19.9	4.8
5	3	710.	208.	0.	3472.	208.	0.	3472.	5700.	0.	0.	0.	.61	62.	18.7	C	16.1	4.4
6	3	3820.	376.	872.	3848.	376.	872.	3848.	6150.	0.	0.	0.	.63	62.	20.7	C	17.1	4.8
7	2	1220.	0.	0.	2976.	0.	0.	2976.	4400.	0.	0.	0.	.68	62.	24.0	C	18.2	4.4
8	2	4810.	612.	796.	3588.	612.	796.	3588.	4100.	0.	0.	0.	.88	59.	30.5	D	22.0	2.9
9	2	1370.	0.	0.	2792.	0.	0.	2792.	4000.	0.	0.	0.	.70	62.	22.5	C	23.6	4.4
10	2	660.	372.	0.	3164.	372.	0.	3164.	4367.	33.	0.	0.	.72	62.	25.6	C	23.6	4.3
11	3	790.	676.	736.	3840.	676.	736.	3840.	5513.	587.	0.	0.	.70	62.	20.6	C	30.0	4.4
12	2	1460.	0.	0.	3104.	0.	0.	3104.	4100.	0.	0.	0.	.76	62.	25.2	C	20.8	4.1
13	2	1400.	292.	0.	3396.	292.	0.	3396.	3970.	0.	0.	0.	.86	60.	28.5	D	14.2	3.1
14	2	2600.	0.	468.	3396.	0.	468.	3396.	3970.	0.	0.	0.	.86	60.	28.5	D	21.7	3.1
15	2	2010.	0.	0.	2928.	0.	0.	2928.	3900.	0.	0.	0.	.75	62.	23.6	C	14.7	4.4
16	2	6120.	316.	632.	3244.	316.	632.	3244.	3850.	0.	0.	0.	.84	60.	27.0	D	19.1	3.2
17	2	1240.	0.	0.	2612.	0.	0.	2612.	4300.	0.	0.	0.	.61	62.	21.1	C	18.2	4.4
18	3	930.	312.	0.	2924.	312.	0.	2924.	6100.	0.	0.	0.	.48	62.	15.7	B	20.6	4.4
19	3	5330.	148.	584.	3072.	148.	584.	3072.	6092.	8.	0.	0.	.50	62.	16.5	B	20.6	4.4
20	2	2830.	0.	0.	2488.	0.	0.	2488.	3800.	0.	0.	0.	.65	61.	20.4	C	21.1	3.8
21	3	1660.	280.	272.	2768.	280.	272.	2768.	6100.	0.	0.	0.	.45	61.	15.1	B	21.1	3.8
22	2	2270.	0.	0.	2496.	0.	0.	2496.	4400.	0.	0.	0.	.57	62.	20.1	C	20.6	4.4
23	2	3040.	84.	364.	2580.	84.	364.	2580.	4100.	0.	0.	0.	.63	62.	20.8	C	20.6	4.4
24	2	2190.	0.	0.	2216.	0.	0.	2216.	4200.	0.	0.	0.	.53	65.	17.0	B	19.2	6.1
25	3	2400.	100.	2316.	2316.	100.	2316.	2316.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.88 LOWEST LOS = D AVG = 60. 22.0 19.0 3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	150. PASS-HRS	2681. VEH-HRS	3110. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	130. VEH-HRS	150. PASS-HRS	2681. VEH-HRS	3110. PASS-HRS
TOTAL TRAV DISTANCE =	7841. VEH-MI.	9095. PASS-MI.	161185. VEH-MI.	186974. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		21. VPMPL	
TOTAL FUEL =	412. GALLONS		8484. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		650. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1772.	0.	1772.	1772.	0.	1772.	3850.	0.	0.	0.	.46	50.	17.7	B	17.4	2.3
2	2	2070.	532.	0.	2304.	532.	0.	2304.	3844.	6.	0.	0.	.60	50.	23.0	C	15.9	2.3
3	3	2300.	1520.	320.	3824.	1520.	320.	3824.	5500.	200.	0.	0.	.70	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3504.	0.	0.	3504.	5700.	0.	0.	0.	.61	62.	18.8	C	19.9	4.8
5	3	710.	156.	0.	3660.	156.	0.	3660.	5700.	0.	0.	0.	.64	62.	19.7	C	16.1	4.4
6	3	3820.	344.	880.	4004.	344.	880.	4004.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3124.	0.	0.	3124.	4400.	0.	0.	0.	.71	62.	25.2	C	18.2	4.3
8	2	4810.	612.	828.	3736.	612.	828.	3736.	4100.	0.	0.	0.	.91	57.	32.6	D	22.4	2.5
9	2	1370.	0.	0.	2908.	0.	0.	2908.	4000.	0.	0.	0.	.73	62.	23.5	C	23.6	4.4
10	2	660.	244.	0.	3152.	244.	0.	3152.	4380.	20.	0.	0.	.72	62.	25.5	C	23.6	4.3
11	3	790.	720.	712.	3872.	720.	712.	3872.	5496.	604.	0.	0.	.70	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3160.	0.	0.	3160.	4100.	0.	0.	0.	.77	61.	25.7	C	20.8	4.0
13	2	1400.	400.	0.	3560.	400.	0.	3560.	3970.	0.	0.	0.	.90	58.	30.7	D	14.5	2.7
14	2	2600.	0.	556.	3560.	0.	556.	3560.	3970.	0.	0.	0.	.90	58.	30.7	D	22.2	2.7
15	2	2010.	0.	0.	3004.	0.	0.	3004.	3900.	0.	0.	0.	.77	62.	24.2	C	14.7	4.4
16	2	6120.	340.	864.	3344.	340.	864.	3344.	3850.	0.	0.	0.	.87	59.	28.3	D	19.3	3.0
17	2	1240.	0.	0.	2480.	0.	0.	2480.	4300.	0.	0.	0.	.58	62.	20.0	C	18.2	4.4
18	3	930.	308.	0.	2788.	308.	0.	2788.	6100.	0.	0.	0.	.46	62.	15.0	B	20.6	4.4
19	3	5330.	124.	464.	2912.	124.	464.	2912.	6096.	4.	0.	0.	.48	62.	15.7	B	20.6	4.4
20	2	2830.	0.	0.	2448.	0.	0.	2448.	3800.	0.	0.	0.	.64	61.	20.1	C	21.1	3.8
21	3	1660.	328.	432.	2776.	328.	432.	2776.	6100.	0.	0.	0.	.46	61.	15.2	B	21.1	3.8
22	2	2270.	0.	0.	2344.	0.	0.	2344.	4400.	0.	0.	0.	.53	62.	18.9	C	20.6	4.4
23	2	3040.	92.	344.	2436.	92.	344.	2436.	4100.	0.	0.	0.	.59	62.	19.6	C	20.6	4.4
24	2	2190.	0.	0.	2092.	0.	0.	2092.	4200.	0.	0.	0.	.50	65.	16.1	B	19.2	6.1
25	3	2400.	68.	2160.	2160.	68.	2160.	2160.	6150.	0.	0.	0.	.35	65.	11.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.91 LOWEST LOS = D AVG = 60. 22.4 19.1 3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	132. VEH-HRS	153. PASS-HRS	2813. VEH-HRS	3264. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	132. VEH-HRS	153. PASS-HRS	2813. VEH-HRS	3264. PASS-HRS
TOTAL TRAV DISTANCE =	7926. VEH-MI.	9194. PASS-MI.	169111. VEH-MI.	196168. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		21. VPMPL	
TOTAL FUEL =	415. GALLONS		8900. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		680. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1840.	0.	1840.	1840.	0.	1840.	3850.	0.	0.	0.	.48	50.	18.4	C	17.4	2.3
2	2	2070.	568.	0.	2408.	568.	0.	2408.	3841.	9.	0.	0.	.63	50.	24.1	C	15.9	2.3
3	3	2300.	1644.	364.	4052.	1644.	364.	4052.	5473.	227.	0.	0.	.74	55.	24.6	C	14.0	2.4
4	3	1020.	0.	0.	3688.	0.	0.	3688.	5700.	0.	0.	0.	.65	62.	19.8	C	19.9	4.8
5	3	710.	184.	0.	3872.	184.	0.	3872.	5700.	0.	0.	0.	.68	62.	20.8	C	16.1	4.4
6	3	3820.	388.	924.	4260.	388.	924.	4260.	6150.	0.	0.	0.	.69	62.	22.9	C	17.1	4.8
7	2	1220.	0.	0.	3336.	0.	0.	3336.	4400.	0.	0.	0.	.76	62.	27.1	D	18.3	4.1
8	2	4810.	564.	900.	3900.	564.	900.	3900.	4100.	0.	0.	0.	.95	55.	35.4	E	23.1	2.0
9	2	1370.	0.	0.	3000.	0.	0.	3000.	4000.	0.	0.	0.	.75	62.	24.2	C	23.6	4.4
10	2	660.	236.	0.	3236.	236.	0.	3236.	4378.	22.	0.	0.	.74	62.	26.2	D	23.7	4.2
11	3	790.	748.	812.	3984.	748.	812.	3984.	5478.	622.	0.	0.	.73	62.	21.4	C	30.0	4.4
12	2	1460.	0.	0.	3172.	0.	0.	3172.	4100.	0.	0.	0.	.77	61.	25.8	C	20.9	4.0
13	2	1400.	428.	0.	3600.	428.	0.	3600.	3970.	0.	0.	0.	.91	58.	31.3	D	14.6	2.6
14	2	2600.	0.	680.	3600.	0.	680.	3600.	3970.	0.	0.	0.	.91	58.	31.3	D	22.4	2.6
15	2	2010.	0.	0.	2920.	0.	0.	2920.	3900.	0.	0.	0.	.75	62.	23.5	C	14.7	4.4
16	2	6120.	240.	640.	3160.	240.	640.	3160.	3850.	0.	0.	0.	.82	61.	26.1	D	18.8	3.5
17	2	1240.	0.	0.	2520.	0.	0.	2520.	4300.	0.	0.	0.	.59	62.	20.3	C	18.2	4.4
18	3	930.	268.	0.	2788.	268.	0.	2788.	6100.	0.	0.	0.	.46	62.	15.0	B	20.6	4.4
19	3	5330.	136.	508.	2924.	136.	508.	2924.	6096.	4.	0.	0.	.48	62.	15.7	B	20.6	4.4
20	2	2830.	0.	0.	2416.	0.	0.	2416.	3800.	0.	0.	0.	.64	61.	19.8	C	21.1	3.8
21	3	1660.	304.	404.	2720.	304.	404.	2720.	6100.	0.	0.	0.	.45	61.	14.9	B	21.1	3.8
22	2	2270.	0.	0.	2316.	0.	0.	2316.	4400.	0.	0.	0.	.53	62.	18.7	C	20.6	4.4
23	2	3040.	92.	324.	2408.	92.	324.	2408.	4100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
24	2	2190.	0.	0.	2084.	0.	0.	2084.	4200.	0.	0.	0.	.50	65.	16.0	B	19.2	6.1
25	3	2400.	116.	2200.	2200.	116.	2200.	2200.	6150.	0.	0.	0.	.36	65.	11.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.95 LOWEST LOS = E AVG = 60. 22.8 19.1 3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	156. PASS-HRS	2948. VEH-HRS	3419. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	156. PASS-HRS	2948. VEH-HRS	3419. PASS-HRS
TOTAL TRAV DISTANCE =	8028. VEH-MI.	9312. PASS-MI.	177138. VEH-MI.	205480. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		21. VPMPL	
TOTAL FUEL =	421. GALLONS		9321. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		711. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
1	60.	70.	0.	0.	60.	70.	3696.	4288.	61.5	196.	1.	12.	3.	14:00
2	75.	87.	0.	0.	75.	87.	4605.	5342.	61.4	244.	1.	15.	4.	14:15
3	109.	127.	0.	0.	109.	127.	6712.	7786.	61.4	356.	1.	23.	6.	14:30
4	131.	152.	0.	0.	131.	152.	7982.	9259.	61.1	422.	1.	25.	7.	14:45
5	109.	126.	0.	0.	109.	126.	6703.	7776.	61.5	355.	1.	23.	6.	15:00
6	126.	147.	0.	0.	126.	147.	7751.	8991.	61.3	410.	1.	25.	7.	15:15
7	142.	164.	0.	0.	142.	164.	8511.	9872.	60.0	439.	1.	24.	7.	15:30
8	152.	176.	0.	0.	152.	176.	8746.	10146.	57.7	450.	1.	24.	7.	15:45
9	156.	180.	0.	0.	156.	180.	8929.	10357.	57.4	465.	1.	24.	8.	16:00
10	114.	132.	0.	0.	114.	132.	6991.	8109.	61.3	373.	1.	23.	6.	16:15
11	135.	156.	0.	0.	135.	156.	8089.	9384.	60.0	424.	1.	23.	7.	16:30
12	113.	131.	0.	0.	113.	131.	6857.	7954.	60.7	364.	1.	21.	6.	16:45
13	135.	157.	0.	0.	135.	157.	7849.	9105.	57.9	407.	1.	22.	7.	17:00
14	121.	140.	0.	0.	121.	140.	7141.	8283.	59.1	378.	1.	21.	6.	17:15
15	113.	131.	0.	0.	113.	131.	6890.	7993.	61.1	368.	1.	22.	6.	17:30
16	117.	136.	0.	0.	117.	136.	7155.	8300.	61.0	381.	1.	23.	6.	17:45
17	115.	134.	0.	0.	115.	134.	7027.	8152.	60.9	376.	1.	22.	6.	18:00
18	128.	149.	0.	0.	128.	149.	7781.	9026.	60.6	412.	1.	24.	7.	18:15
19	122.	141.	0.	0.	122.	141.	7379.	8560.	60.7	392.	1.	23.	7.	18:30
20	144.	167.	0.	0.	144.	167.	8436.	9786.	58.6	437.	1.	23.	7.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	135.	156.	0.	0.	135.	156.	8114.	9412.	60.2	425.	1.	23.	7.	19:00
22	130.	150.	0.	0.	130.	150.	7841.	9095.	60.5	412.	1.	23.	7.	19:15
23	132.	153.	0.	0.	132.	153.	7926.	9194.	60.0	415.	1.	22.	7.	19:30
24	134.	156.	0.	0.	134.	156.	8028.	9312.	59.8	421.	1.	22.	7.	19:45
TOTAL	2948.	3419.	0.	0.	2948.	3419.	177138.	205480.	60.1	9321.	25.	531.	154.	

Horizon Year (2045) No Build
Southbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2024.	0.	2024.	2024.	0.	2024.	3850.	0.	0.	0.	.53	50.	20.2	C	17.4	2.3
2	2	2070.	624.	0.	2648.	624.	0.	2648.	3837.	13.	0.	0.	.69	50.	26.5	D	15.9	2.3
3	3	2300.	1688.	328.	4336.	1688.	328.	4336.	5885.	215.	0.	0.	.74	55.	26.3	D	14.0	2.4
4	3	1020.	0.	0.	4008.	0.	0.	4008.	6100.	0.	0.	0.	.66	62.	21.5	C	19.9	4.8
5	3	710.	164.	0.	4172.	164.	0.	4172.	6100.	0.	0.	0.	.68	62.	22.4	C	16.1	4.4
6	3	3820.	380.	1052.	4552.	380.	1052.	4552.	6106.	44.	0.	0.	.75	62.	24.5	C	17.1	4.8
7	2	1220.	0.	0.	3500.	0.	0.	3500.	4400.	0.	0.	0.	.80	61.	28.6	D	18.6	3.8
8	2	4810.	584.	692.	4084.	584.	692.	4084.	4600.	0.	0.	0.	.89	58.	35.0	D	22.1	2.8
9	2	1370.	0.	0.	3392.	0.	0.	3392.	4000.	0.	0.	0.	.85	60.	28.4	D	24.9	3.1
10	2	660.	276.	0.	3668.	276.	0.	3668.	4376.	24.	0.	0.	.84	60.	30.5	D	24.7	3.2
11	3	790.	776.	856.	4444.	776.	856.	4310.	5444.	656.	* 249.	134.	.79	58.	25.0	F	29.9	4.4
12	2	1460.	0.	0.	3588.	0.	0.	3454.	4100.	0.	** 1460.	134.	.84	30.	58.4	F	20.2	3.5
13	2	1400.	516.	0.	4104.	516.	0.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	15.7	2.0
14	2	2600.	0.	584.	4104.	0.	565.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	23.9	2.0
15	2	2010.	0.	0.	3520.	0.	0.	3405.	3900.	0.	0.	0.	.87	59.	28.9	D	15.5	2.9
16	2	6120.	400.	640.	3920.	400.	621.	3805.	3850.	0.	0.	0.	.99	52.	36.3	E	21.0	2.0
17	2	1240.	0.	0.	3280.	0.	0.	3184.	4300.	0.	0.	0.	.74	62.	25.8	C	18.3	4.2
18	3	930.	500.	0.	3780.	500.	0.	3684.	6100.	0.	0.	0.	.60	62.	19.8	C	20.6	4.4
19	3	5330.	112.	544.	3892.	112.	531.	3796.	6068.	32.	0.	0.	.63	62.	20.4	C	20.6	4.4
20	2	2830.	0.	0.	3348.	0.	0.	3265.	3800.	0.	0.	0.	.86	59.	27.7	D	22.0	2.9
21	3	1660.	452.	564.	3800.	452.	552.	3717.	5946.	154.	0.	0.	.63	61.	20.3	C	21.1	3.8
22	2	2270.	0.	0.	3236.	0.	0.	3165.	4400.	0.	0.	0.	.72	62.	25.6	C	20.6	4.3
23	2	3040.	120.	348.	3356.	120.	341.	3285.	4100.	0.	0.	0.	.80	61.	26.9	D	21.1	3.8
24	2	2190.	0.	0.	3008.	0.	0.	2945.	4200.	0.	0.	0.	.70	65.	22.7	C	19.3	6.0
25	3	2400.	116.	3124.	3124.	116.	3061.	3061.	6150.	0.	0.	0.	.50	65.	15.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 56.	27.6		19.4	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	178. VEH-HRS	210. PASS-HRS	178. VEH-HRS	210. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	178. VEH-HRS	210. PASS-HRS	178. VEH-HRS	210. PASS-HRS
TOTAL TRAV DISTANCE =	10050. VEH-MI.	11859. PASS-MI.	10050. VEH-MI.	11859. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		56. MPH.	
AVERAGE DENSITY =	28. VPMPL		28. VPMPL	
TOTAL FUEL =	518. GALLONS		518. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		35. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2696.	0.	2696.	2696.	0.	2696.	3850.	0.	0.	0.	.70	50.	27.0	D	17.4	2.3
2	2	2070.	568.	0.	3264.	568.	0.	3264.	3831.	19.	0.	0.	.85	50.	32.6	D	15.9	2.3
3	3	2300.	1504.	368.	4768.	1504.	368.	4768.	5827.	273.	0.	0.	.82	55.	28.9	D	14.0	2.4
4	3	1020.	0.	0.	4400.	0.	0.	4400.	6100.	0.	0.	0.	.72	62.	23.7	C	19.9	4.8
5	3	710.	128.	0.	4528.	128.	0.	4528.	6100.	0.	0.	0.	.74	62.	24.3	C	16.1	4.4
6	3	3820.	300.	1248.	4828.	300.	1248.	4828.	6083.	67.	0.	0.	.79	61.	26.3	D	17.5	4.3
7	2	1220.	0.	0.	3580.	0.	0.	3580.	4400.	0.	0.	0.	.81	61.	29.5	D	18.7	3.6
8	2	4810.	624.	696.	4204.	624.	696.	3874.	4600.	0.	* 1348.	330.	.84	54.	36.0	F	22.3	2.6
9	2	1370.	0.	0.	3508.	0.	0.	3178.	4000.	0.	** 1370.	330.	.79	30.	52.8	F	24.3	3.6
10	2	660.	280.	0.	3788.	280.	0.	3458.	4376.	24.	** 660.	330.	.79	23.	74.8	F	23.5	4.1
11	3	790.	916.	880.	4704.	916.	880.	4374.	5364.	736.	** 790.	330.	.82	21.	68.8	F	29.4	4.1
12	2	1460.	0.	0.	3824.	0.	0.	3494.	4100.	0.	** 1460.	330.	.85	23.	76.0	F	19.4	3.7
13	2	1400.	476.	0.	4300.	476.	0.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	15.7	2.0
14	2	2600.	0.	572.	4300.	0.	528.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	23.9	2.0
15	2	2010.	0.	0.	3728.	0.	0.	3430.	3900.	0.	* 203.	12.	.88	55.	31.2	F	15.5	2.9
16	2	6120.	420.	660.	4148.	420.	613.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3488.	0.	0.	3237.	4300.	0.	0.	0.	.75	62.	26.2	D	18.3	4.2
18	3	930.	472.	0.	3960.	472.	0.	3709.	6099.	1.	0.	0.	.61	62.	19.9	C	20.6	4.4
19	3	5330.	140.	580.	4100.	140.	544.	3849.	6065.	35.	0.	0.	.63	62.	20.7	C	20.6	4.4
20	2	2830.	0.	0.	3520.	0.	0.	3305.	3800.	0.	0.	0.	.87	59.	28.2	D	22.1	2.8
21	3	1660.	504.	636.	4024.	504.	602.	3809.	5846.	254.	0.	0.	.65	61.	20.8	C	21.1	3.8
22	2	2270.	0.	0.	3388.	0.	0.	3207.	4400.	0.	0.	0.	.73	62.	25.9	C	20.6	4.3
23	2	3040.	84.	424.	3472.	84.	402.	3291.	4100.	0.	0.	0.	.80	61.	27.0	D	21.1	3.7
24	2	2190.	0.	0.	3048.	0.	0.	2889.	4200.	0.	0.	0.	.69	65.	22.2	C	19.2	6.1
25	3	2400.	92.	3140.	3140.	92.	2981.	2981.	6150.	0.	0.	0.	.48	65.	15.3	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 52.	31.2		19.3	3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	203. VEH-HRS	239. PASS-HRS	381. VEH-HRS	449. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	203. VEH-HRS	239. PASS-HRS	381. VEH-HRS	449. PASS-HRS
TOTAL TRAV DISTANCE =	10495. VEH-MI.	12384. PASS-MI.	20545. VEH-MI.	24243. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		54. MPH.	
AVERAGE DENSITY =	31. VPMPL		29. VPMPL	
TOTAL FUEL =	543. GALLONS		1061. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		70. KILOGRAMS	

QUEUE CLEAR SECTION 15 T2 =0.220

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2140.	0.	2140.	2140.	0.	2140.	3850.	0.	0.	0.	.56	50.	21.4	C	17.4	2.3
2	2	2070.	536.	0.	2676.	536.	0.	2676.	3836.	14.	0.	0.	.70	50.	26.8	D	15.9	2.3
3	3	2300.	1788.	400.	4464.	1788.	400.	4464.	5844.	256.	0.	0.	.76	55.	27.1	D	14.0	2.4
4	3	1020.	0.	0.	4064.	0.	0.	4064.	6100.	0.	0.	0.	.67	62.	21.8	C	19.9	4.8
5	3	710.	132.	0.	4196.	132.	0.	4196.	6100.	0.	0.	0.	.69	62.	22.6	C	16.1	4.4
6	3	3820.	308.	1056.	4504.	308.	1056.	4504.	6126.	24.	0.	0.	.74	62.	24.2	C	17.1	4.8
7	2	1220.	0.	0.	3448.	0.	0.	3111.	4400.	0.	* 128.	337.	.71	61.	25.6	F	18.5	3.9
8	2	4810.	564.	684.	4012.	564.	684.	3675.	4600.	0.	** 4810.	337.	.80	26.	72.0	F	19.4	3.8
9	2	1370.	0.	0.	3328.	0.	0.	2991.	4000.	0.	** 1370.	337.	.75	16.	91.2	F	20.7	5.0
10	2	660.	344.	0.	3672.	344.	0.	3335.	4371.	29.	** 660.	337.	.76	17.	96.9	F	21.4	4.8
11	3	790.	944.	872.	4616.	944.	872.	4279.	5373.	727.	** 790.	337.	.80	19.	74.6	F	27.7	4.4
12	2	1460.	0.	0.	3744.	0.	0.	3407.	4100.	0.	** 1460.	337.	.83	21.	79.6	F	18.9	4.0
13	2	1400.	540.	0.	4284.	540.	0.	3947.	3947.	23.	0.	0.	1.00	52.	38.3	E	15.7	2.0
14	2	2600.	0.	672.	4284.	0.	619.	3947.	3947.	23.	0.	0.	1.00	52.	38.3	E	23.9	2.0
15	2	2010.	0.	0.	3612.	0.	0.	3343.	3900.	0.	0.	-15.	.86	56.	30.0	D	15.3	3.1
16	2	6120.	492.	696.	4104.	492.	650.	3835.	3850.	0.	0.	0.	.99	52.	37.0	E	21.1	2.0
17	2	1240.	0.	0.	3408.	0.	0.	3185.	4300.	0.	0.	0.	.74	62.	25.8	C	18.3	4.2
18	3	930.	504.	0.	3912.	504.	0.	3689.	6099.	1.	0.	0.	.60	62.	19.8	C	20.6	4.4
19	3	5330.	160.	556.	4072.	160.	525.	3849.	6065.	35.	0.	0.	.63	62.	20.7	C	20.6	4.4
20	2	2830.	0.	0.	3516.	0.	0.	3324.	3800.	0.	0.	0.	.87	58.	28.5	D	22.1	2.8
21	3	1660.	480.	656.	3996.	480.	624.	3804.	5860.	240.	0.	0.	.65	61.	20.8	C	21.1	3.8
22	2	2270.	0.	0.	3340.	0.	0.	3179.	4400.	0.	0.	0.	.72	62.	25.7	C	20.6	4.3
23	2	3040.	96.	380.	3436.	96.	362.	3275.	4100.	0.	0.	0.	.80	61.	26.8	D	21.1	3.8
24	2	2190.	0.	0.	3056.	0.	0.	2913.	4200.	0.	0.	0.	.69	65.	22.5	C	19.3	6.0
25	3	2400.	84.	3140.	3140.	84.	2997.	2997.	6150.	0.	0.	0.	.49	65.	15.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 46.	34.1		19.0	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	218. VEH-HRS	258. PASS-HRS	599. VEH-HRS	707. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	218. VEH-HRS	258. PASS-HRS	599. VEH-HRS	707. PASS-HRS
TOTAL TRAV DISTANCE =	9992. VEH-MI.	11790. PASS-MI.	30536. VEH-MI.	36033. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		51. MPH.	
AVERAGE DENSITY =	34. VPMPL		31. VPMPL	
TOTAL FUEL =	525. GALLONS		1586. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		106. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2668.	0.	2668.	2668.	0.	2668.	3850.	0.	0.	0.	.69	50.	26.7	D	17.4	2.3
2	2	2070.	472.	0.	3140.	472.	0.	3140.	3835.	15.	0.	0.	.82	50.	31.4	D	15.9	2.3
3	3	2300.	1636.	352.	4776.	1636.	352.	4776.	5851.	249.	0.	0.	.82	55.	28.9	D	14.0	2.4
4	3	1020.	0.	0.	4424.	0.	0.	4424.	6100.	0.	0.	0.	.73	62.	23.8	C	19.9	4.8
5	3	710.	128.	0.	4552.	128.	0.	4552.	6100.	0.	0.	0.	.75	62.	24.5	C	16.1	4.4
6	3	3820.	264.	1104.	4816.	264.	1104.	4402.	6130.	20.	* 1834.	414.	.72	41.	35.9	F	16.5	4.6
7	2	1220.	0.	0.	3712.	0.	0.	3298.	4400.	0.	** 1220.	414.	.75	18.	90.1	F	14.8	4.7
8	2	4810.	540.	772.	4252.	540.	772.	3838.	4600.	0.	** 4810.	414.	.83	22.	88.6	F	19.0	3.9
9	2	1370.	0.	0.	3480.	0.	0.	3066.	4000.	0.	** 1370.	414.	.77	17.	88.2	F	21.6	4.7
10	2	660.	264.	0.	3744.	264.	0.	3330.	4376.	24.	** 660.	414.	.76	17.	97.4	F	21.3	4.8
11	3	790.	972.	908.	4716.	972.	908.	4302.	5352.	748.	** 790.	414.	.80	20.	73.2	F	28.4	4.3
12	2	1460.	0.	0.	3808.	0.	0.	3394.	4100.	0.	** 1460.	414.	.83	21.	80.1	F	18.9	4.0
13	2	1400.	576.	0.	4384.	576.	0.	3970.	3970.	0.	0.	0.	1.00	52.	38.5	E	15.7	2.0
14	2	2600.	0.	600.	4384.	0.	543.	3813.	3970.	0.	* 698.	157.	.96	51.	37.3	F	23.9	2.0
15	2	2010.	0.	0.	3784.	0.	0.	3270.	3900.	0.	** 2010.	157.	.84	31.	53.4	F	14.3	3.4
16	2	6120.	580.	628.	4364.	580.	554.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3736.	0.	0.	3296.	4300.	0.	0.	0.	.77	62.	26.8	D	18.4	4.1
18	3	930.	444.	0.	4180.	444.	0.	3740.	6098.	2.	0.	0.	.61	62.	20.1	C	20.6	4.4
19	3	5330.	132.	540.	4312.	132.	485.	3872.	6067.	33.	0.	0.	.64	62.	20.8	C	20.6	4.4
20	2	2830.	0.	0.	3772.	0.	0.	3387.	3800.	0.	0.	0.	.89	58.	29.3	D	22.3	2.6
21	3	1660.	516.	716.	4288.	516.	651.	3903.	5798.	302.	0.	0.	.67	61.	21.3	C	21.1	3.8
22	2	2270.	0.	0.	3572.	0.	0.	3252.	4400.	0.	0.	0.	.74	62.	26.3	D	20.7	4.2
23	2	3040.	316.	392.	3888.	316.	359.	3568.	4100.	0.	0.	0.	.87	59.	30.2	D	21.9	3.0
24	2	2190.	0.	0.	3496.	0.	0.	3208.	4200.	0.	0.	0.	.76	64.	25.1	C	19.6	5.5
25	3	2400.	116.	3612.	3612.	116.	3324.	3324.	6150.	0.	0.	0.	.54	65.	17.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 41.	39.5		18.8	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	253. VEH-HRS	298. PASS-HRS	852. VEH-HRS	1005. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	253. VEH-HRS	298. PASS-HRS	852. VEH-HRS	1005. PASS-HRS
TOTAL TRAV DISTANCE =	10469. VEH-MI.	12353. PASS-MI.	41005. VEH-MI.	48386. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		48. MPH.	
AVERAGE DENSITY =	39. VPMPL		33. VPMPL	
TOTAL FUEL =	556. GALLONS		2142. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		143. KILOGRAMS	

QUEUE COLLISION IN SECTION 13 T2 =0.104

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2200.	0.	2200.	2200.	0.	2200.	3850.	0.	0.	0.	.57	50.	22.0	C	17.4	2.3
2	2	2070.	452.	0.	2652.	452.	0.	2652.	3834.	16.	0.	0.	.69	50.	26.5	D	15.9	2.3
3	3	2300.	1464.	496.	4116.	1464.	496.	4116.	5761.	339.	0.	0.	.71	55.	24.9	C	14.0	2.4
4	3	1020.	0.	0.	3620.	0.	0.	3620.	6100.	0.	0.	0.	.59	62.	19.5	C	19.9	4.8
5	3	710.	72.	0.	3692.	72.	0.	3692.	6100.	0.	0.	0.	.61	62.	19.8	C	16.1	4.4
6	3	3820.	276.	1108.	3968.	276.	1108.	3858.	6130.	20.	* 1811.	110.	.63	22.	58.2	F	14.4	5.5
7	2	1220.	0.	0.	2860.	0.	0.	2750.	4400.	0.	** 1220.	110.	.62	12.	113.4	F	12.7	5.8
8	2	4810.	504.	724.	3364.	504.	724.	3254.	4600.	0.	** 4810.	110.	.71	16.	104.5	F	16.4	5.1
9	2	1370.	0.	0.	2640.	0.	0.	2530.	4000.	0.	** 1370.	110.	.63	12.	101.2	F	16.9	5.8
10	2	660.	324.	0.	2964.	324.	0.	2854.	4373.	27.	** 660.	110.	.65	13.	108.1	F	17.6	5.6
11	3	790.	1068.	760.	4032.	1068.	760.	3922.	5507.	593.	** 790.	110.	.71	16.	83.7	F	23.5	5.1
12	2	1460.	0.	0.	3272.	0.	0.	3162.	4100.	0.	** 1460.	110.	.77	19.	82.2	F	18.1	4.4
13	2	1400.	544.	0.	3816.	544.	0.	3706.	3970.	0.	** 1400.	264.	.93	36.	52.0	F	14.9	2.6
14	2	2600.	0.	388.	3816.	0.	404.	3706.	3970.	0.	** 2600.	264.	.93	32.	58.1	F	21.9	2.8
15	2	2010.	0.	0.	3428.	0.	0.	3302.	3900.	0.	** 2010.	264.	.85	23.	73.2	F	13.5	3.8
16	2	6120.	548.	500.	3976.	548.	484.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3476.	0.	0.	3366.	4300.	0.	0.	0.	.78	61.	27.5	D	18.5	3.9
18	3	930.	356.	0.	3832.	356.	0.	3722.	6099.	1.	0.	0.	.61	62.	20.0	C	20.6	4.4
19	3	5330.	104.	480.	3936.	104.	467.	3826.	6076.	24.	0.	0.	.63	62.	20.6	C	20.6	4.4
20	2	2830.	0.	0.	3456.	0.	0.	3359.	3800.	0.	0.	0.	.88	58.	29.0	D	22.2	2.7
21	3	1660.	500.	668.	3956.	500.	652.	3859.	5850.	250.	0.	0.	.66	61.	21.1	C	21.1	3.8
22	2	2270.	0.	0.	3288.	0.	0.	3208.	4400.	0.	0.	0.	.73	62.	25.9	C	20.6	4.3
23	2	3040.	260.	376.	3548.	260.	368.	3468.	4100.	0.	0.	0.	.85	60.	29.0	D	21.7	3.2
24	2	2190.	0.	0.	3172.	0.	0.	3100.	4200.	0.	0.	0.	.74	64.	24.1	C	19.5	5.7
25	3	2400.	144.	3316.	3316.	144.	3244.	3244.	6150.	0.	0.	0.	.53	65.	16.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 34.	44.0		18.1	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	285. VEH-HRS	336. PASS-HRS	1136. VEH-HRS	1341. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	285. VEH-HRS	336. PASS-HRS	1136. VEH-HRS	1341. PASS-HRS
TOTAL TRAV DISTANCE =	9708. VEH-MI.	11455. PASS-MI.	50713. VEH-MI.	59841. PASS-MI.
AVERAGE SYSTEM SPEED =	34. MPH.		45. MPH.	
AVERAGE DENSITY =	44. VPMPL		35. VPMPL	
TOTAL FUEL =	537. GALLONS		2679. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		180. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2292.	0.	2292.	2292.	0.	2292.	3850.	0.	0.	0.	.60	50.	22.9	C	17.4	2.3
2	2	2070.	396.	0.	2688.	396.	0.	2688.	3837.	13.	0.	0.	.70	50.	26.9	D	15.9	2.3
3	3	2300.	1420.	428.	4108.	1420.	428.	4108.	5805.	295.	0.	0.	.71	55.	24.9	C	14.0	2.4
4	3	1020.	0.	0.	3680.	0.	0.	3680.	6100.	0.	0.	0.	.60	62.	19.8	C	19.9	4.8
5	3	710.	64.	0.	3744.	64.	0.	3744.	6100.	0.	0.	0.	.61	62.	20.1	C	16.1	4.4
6	3	3820.	216.	1108.	3960.	216.	1108.	3806.	6142.	8.	* 2535.	154.	.62	17.	73.2	F	13.4	5.8
7	2	1220.	0.	0.	2852.	0.	0.	2698.	4400.	0.	** 1220.	154.	.61	11.	124.5	F	12.1	6.1
8	2	4810.	532.	684.	3384.	532.	684.	3230.	4600.	0.	** 4810.	154.	.70	14.	113.5	F	15.7	5.4
9	2	1370.	0.	0.	2700.	0.	0.	2546.	4000.	0.	** 1370.	154.	.64	12.	109.4	F	16.0	6.0
10	2	660.	308.	0.	3008.	308.	0.	2854.	4375.	25.	** 660.	154.	.65	12.	116.8	F	16.5	5.8
11	3	790.	1012.	720.	4020.	1012.	720.	3866.	5529.	571.	** 790.	154.	.70	14.	91.4	F	21.6	5.4
12	2	1460.	0.	0.	3300.	0.	0.	3146.	4100.	0.	** 1460.	154.	.77	17.	90.2	F	17.3	4.7
13	2	1400.	560.	0.	3860.	560.	0.	3706.	3970.	0.	** 1400.	154.	.93	31.	60.4	F	14.5	2.9
14	2	2600.	0.	336.	3860.	0.	336.	3706.	3970.	0.	** 2600.	154.	.93	31.	60.4	F	21.7	2.9
15	2	2010.	0.	0.	3524.	0.	0.	3370.	3900.	0.	** 2010.	154.	.86	24.	70.4	F	13.8	3.6
16	2	6120.	480.	464.	4004.	480.	446.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3540.	0.	0.	3404.	4300.	0.	0.	0.	.79	61.	27.8	D	18.5	3.9
18	3	930.	364.	0.	3904.	364.	0.	3768.	6099.	1.	0.	0.	.62	62.	20.3	C	20.6	4.4
19	3	5330.	112.	440.	4016.	112.	425.	3880.	6078.	22.	0.	0.	.64	62.	20.9	C	20.6	4.4
20	2	2830.	0.	0.	3576.	0.	0.	3455.	3800.	0.	0.	0.	.91	57.	30.3	D	22.5	2.5
21	3	1660.	516.	600.	4092.	516.	582.	3971.	5858.	242.	0.	0.	.68	61.	21.7	C	21.1	3.8
22	2	2270.	0.	0.	3492.	0.	0.	3388.	4400.	0.	0.	0.	.77	61.	27.6	D	20.8	4.1
23	2	3040.	140.	368.	3632.	140.	358.	3528.	4100.	0.	0.	0.	.86	59.	29.7	D	21.8	3.0
24	2	2190.	0.	0.	3264.	0.	0.	3171.	4200.	0.	0.	0.	.75	64.	24.7	C	19.6	5.6
25	3	2400.	132.	3396.	3396.	132.	3303.	3303.	6150.	0.	0.	0.	.54	65.	16.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 32.	47.0		17.9	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	301. VEH-HRS	355. PASS-HRS	1437. VEH-HRS	1696. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	301. VEH-HRS	355. PASS-HRS	1437. VEH-HRS	1696. PASS-HRS
TOTAL TRAV DISTANCE =	9741. VEH-MI.	11494. PASS-MI.	60454. VEH-MI.	71335. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		42. MPH.	
AVERAGE DENSITY =	47. VPMPL		37. VPMPL	
TOTAL FUEL =	545. GALLONS		3224. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		218. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2056.	0.	2056.	2056.	0.	2056.	3850.	0.	0.	0.	.53	50.	20.6	C	17.4	2.3
2	2	2070.	444.	0.	2500.	444.	0.	2500.	3838.	12.	0.	0.	.65	50.	25.0	C	15.9	2.3
3	3	2300.	1648.	492.	4148.	1648.	492.	4148.	5789.	311.	0.	0.	.72	55.	25.1	C	14.0	2.4
4	3	1020.	0.	0.	3656.	0.	0.	3656.	6100.	0.	0.	0.	.60	62.	19.7	C	19.9	4.8
5	3	710.	56.	0.	3712.	56.	0.	3712.	6100.	0.	0.	0.	.61	62.	20.0	C	16.1	4.4
6	3	3820.	216.	1168.	3928.	216.	1168.	3874.	6127.	23.	* 2796.	54.	.63	15.	84.5	F	12.9	6.0
7	2	1220.	0.	0.	2760.	0.	0.	2706.	4400.	0.	** 1220.	54.	.62	11.	124.2	F	12.1	6.1
8	2	4810.	544.	724.	3304.	544.	724.	3250.	4600.	0.	** 4810.	54.	.71	14.	112.6	F	15.9	5.4
9	2	1370.	0.	0.	2580.	0.	0.	2526.	4000.	0.	** 1370.	54.	.63	11.	110.2	F	15.8	6.0
10	2	660.	304.	0.	2884.	304.	0.	2830.	4375.	25.	** 660.	54.	.65	12.	117.8	F	16.3	5.9
11	3	790.	1056.	744.	3940.	1056.	744.	3886.	5525.	575.	** 790.	54.	.70	14.	90.7	F	21.9	5.4
12	2	1460.	0.	0.	3196.	0.	0.	3142.	4100.	0.	** 1460.	54.	.77	17.	90.4	F	17.3	4.8
13	2	1400.	584.	0.	3780.	584.	0.	3726.	3970.	0.	** 1400.	54.	.94	31.	59.6	F	14.6	2.8
14	2	2600.	0.	336.	3780.	0.	336.	3726.	3970.	0.	** 2600.	54.	.94	31.	59.6	F	21.8	2.8
15	2	2010.	0.	0.	3444.	0.	0.	3390.	3900.	0.	** 2010.	54.	.87	24.	69.6	F	13.9	3.5
16	2	6120.	460.	468.	3904.	460.	462.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3436.	0.	0.	3388.	4300.	0.	0.	0.	.79	61.	27.7	D	18.5	3.9
18	3	930.	404.	0.	3840.	404.	0.	3792.	6099.	1.	0.	0.	.62	62.	20.4	C	20.6	4.4
19	3	5330.	124.	468.	3964.	124.	462.	3916.	6073.	27.	0.	0.	.64	62.	21.1	C	20.6	4.4
20	2	2830.	0.	0.	3496.	0.	0.	3454.	3800.	0.	0.	0.	.91	57.	30.3	D	22.5	2.5
21	3	1660.	492.	628.	3988.	492.	621.	3946.	5871.	229.	0.	0.	.67	61.	21.6	C	21.1	3.8
22	2	2270.	0.	0.	3360.	0.	0.	3325.	4400.	0.	0.	0.	.76	62.	27.0	D	20.8	4.1
23	2	3040.	116.	356.	3476.	116.	352.	3441.	4100.	0.	0.	0.	.84	60.	28.6	D	21.6	3.2
24	2	2190.	0.	0.	3120.	0.	0.	3088.	4200.	0.	0.	0.	.74	64.	24.0	C	19.4	5.8
25	3	2400.	108.	3228.	3228.	108.	3196.	3196.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 32.	47.2		17.8	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	303. VEH-HRS	358. PASS-HRS	1741. VEH-HRS	2054. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	303. VEH-HRS	358. PASS-HRS	1741. VEH-HRS	2054. PASS-HRS
TOTAL TRAV DISTANCE =	9634. VEH-MI.	11368. PASS-MI.	70087. VEH-MI.	82703. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		40. MPH.	
AVERAGE DENSITY =	47. VPMPL		39. VPMPL	
TOTAL FUEL =	541. GALLONS		3765. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		256. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3060.	0.	3060.	3060.	0.	3060.	3850.	0.	0.	0.	.79	50.	30.6	D	17.4	2.3
2	2	2070.	368.	0.	3428.	368.	0.	3428.	3830.	20.	0.	0.	.89	50.	34.3	D	15.9	2.3
3	3	2300.	1272.	552.	4700.	1272.	552.	4700.	5674.	426.	0.	0.	.83	55.	28.5	D	14.0	2.4
4	3	1020.	0.	0.	4148.	0.	0.	4148.	6100.	0.	0.	0.	.68	62.	22.3	C	19.9	4.8
5	3	710.	28.	0.	4176.	28.	0.	3836.	6100.	0.	* 691.	340.	.63	34.	38.0	F	14.9	4.7
6	3	3820.	176.	1244.	4352.	176.	1244.	4012.	6125.	25.	** 3820.	340.	.66	13.	101.2	F	12.3	6.2
7	2	1220.	0.	0.	3108.	0.	0.	2768.	4400.	0.	** 1220.	340.	.63	11.	121.7	F	12.3	6.0
8	2	4810.	468.	772.	3576.	468.	772.	3236.	4600.	0.	** 4810.	340.	.70	14.	113.2	F	15.8	5.4
9	2	1370.	0.	0.	2804.	0.	0.	2464.	4000.	0.	** 1370.	340.	.62	11.	112.7	F	15.4	6.1
10	2	660.	304.	0.	3108.	304.	0.	2768.	4375.	25.	** 660.	340.	.63	12.	120.3	F	15.9	6.0
11	3	790.	1120.	784.	4228.	1120.	784.	3888.	5493.	607.	** 790.	340.	.71	14.	89.5	F	22.2	5.4
12	2	1460.	0.	0.	3444.	0.	0.	3104.	4100.	0.	** 1460.	340.	.76	17.	91.9	F	17.1	4.9
13	2	1400.	624.	0.	4068.	624.	0.	3728.	3970.	0.	** 1400.	242.	.94	31.	59.5	F	14.6	2.8
14	2	2600.	0.	408.	4068.	0.	398.	3727.	3970.	0.	** 2600.	242.	.94	31.	59.5	F	21.8	2.8
15	2	2010.	0.	0.	3660.	0.	0.	3330.	3900.	0.	** 2010.	242.	.85	23.	72.0	F	13.6	3.7
16	2	6120.	520.	540.	4180.	520.	497.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3640.	0.	0.	3353.	4300.	0.	0.	0.	.78	61.	27.3	D	18.4	4.0
18	3	930.	444.	0.	4084.	444.	0.	3797.	6099.	1.	0.	0.	.62	62.	20.4	C	20.6	4.4
19	3	5330.	168.	580.	4252.	168.	541.	3965.	6064.	36.	0.	0.	.65	62.	21.3	C	20.6	4.4
20	2	2830.	0.	0.	3672.	0.	0.	3424.	3800.	0.	0.	0.	.90	57.	29.9	D	22.4	2.5
21	3	1660.	480.	668.	4152.	480.	628.	3904.	5858.	242.	0.	0.	.67	61.	21.3	C	21.1	3.8
22	2	2270.	0.	0.	3484.	0.	0.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	20.7	4.2
23	2	3040.	108.	388.	3592.	108.	366.	3384.	4100.	0.	0.	0.	.83	60.	28.0	D	21.4	3.4
24	2	2190.	0.	0.	3204.	0.	0.	3018.	4200.	0.	0.	0.	.72	65.	23.4	C	19.4	5.9
25	3	2400.	128.	3332.	3332.	128.	3146.	3146.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 31.	50.1		17.6	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	325. VEH-HRS	383. PASS-HRS	2065. VEH-HRS	2437. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	325. VEH-HRS	383. PASS-HRS	2065. VEH-HRS	2437. PASS-HRS
TOTAL TRAV DISTANCE =	10111. VEH-MI.	11931. PASS-MI.	80198. VEH-MI.	94634. PASS-MI.
AVERAGE SYSTEM SPEED =	31. MPH.		39. MPH.	
AVERAGE DENSITY =	50. VPMPL		40. VPMPL	
TOTAL FUEL =	576. GALLONS		4341. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		295. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2804.	0.	2804.	2804.	0.	2804.	3850.	0.	0.	0.	.73	50.	28.0	D	17.4	2.3
2	2	2070.	364.	0.	3168.	364.	0.	3168.	3831.	19.	0.	0.	.83	50.	31.7	D	15.9	2.3
3	3	2300.	1240.	536.	4408.	1240.	536.	4126.	5714.	386.	* 342.	282.	.72	53.	25.8	F	13.9	2.5
4	3	1020.	0.	0.	3872.	0.	0.	3590.	6100.	0.	** 1020.	282.	.59	16.	75.5	F	15.0	6.0
5	3	710.	72.	0.	3944.	72.	0.	3662.	6100.	0.	** 710.	282.	.60	10.	117.2	F	11.0	6.2
6	3	3820.	168.	1184.	4112.	168.	1184.	3830.	6132.	18.	** 3820.	282.	.62	11.	113.8	F	11.6	6.6
7	2	1220.	0.	0.	2928.	0.	0.	2646.	4400.	0.	** 1220.	282.	.60	10.	126.7	F	12.0	6.2
8	2	4810.	440.	768.	3368.	440.	768.	3086.	4600.	0.	** 4810.	282.	.67	13.	119.3	F	14.8	5.7
9	2	1370.	0.	0.	2600.	0.	0.	2318.	4000.	0.	** 1370.	282.	.58	10.	118.7	F	14.2	6.4
10	2	660.	264.	0.	2864.	264.	0.	2582.	4378.	22.	** 660.	282.	.59	10.	128.1	F	14.7	6.3
11	3	790.	1052.	688.	3916.	1052.	688.	3634.	5570.	530.	** 790.	282.	.65	12.	99.1	F	19.2	5.8
12	2	1460.	0.	0.	3228.	0.	0.	2946.	4100.	0.	** 1460.	282.	.72	15.	98.4	F	16.3	5.3
13	2	1400.	660.	0.	3888.	660.	0.	3606.	3970.	0.	** 1400.	282.	.91	28.	64.5	F	14.0	3.1
14	2	2600.	0.	400.	3888.	0.	400.	3606.	3970.	0.	** 2600.	282.	.91	28.	64.5	F	20.9	3.1
15	2	2010.	0.	0.	3488.	0.	0.	3206.	3900.	0.	** 2010.	282.	.82	21.	77.1	F	13.1	4.1
16	2	6120.	644.	544.	4132.	644.	507.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3588.	0.	0.	3343.	4300.	0.	0.	0.	.78	61.	27.2	D	18.4	4.0
18	3	930.	476.	0.	4064.	476.	0.	3819.	6098.	2.	0.	0.	.63	62.	20.5	C	20.6	4.4
19	3	5330.	204.	608.	4268.	204.	573.	4023.	6062.	38.	0.	0.	.66	62.	21.6	C	20.6	4.4
20	2	2830.	0.	0.	3660.	0.	0.	3450.	3800.	0.	0.	0.	.91	57.	30.3	D	22.5	2.5
21	3	1660.	452.	660.	4112.	452.	626.	3902.	5891.	209.	0.	0.	.66	61.	21.3	C	21.1	3.8
22	2	2270.	0.	0.	3452.	0.	0.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	20.7	4.2
23	2	3040.	128.	360.	3580.	128.	343.	3404.	4100.	0.	0.	0.	.83	60.	28.2	D	21.5	3.4
24	2	2190.	0.	0.	3220.	0.	0.	3062.	4200.	0.	0.	0.	.73	64.	23.7	C	19.4	5.8
25	3	2400.	132.	3352.	3352.	132.	3194.	3194.	6150.	0.	0.	0.	.52	65.	16.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 28.	53.9		17.1	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	354. VEH-HRS	418. PASS-HRS	2420. VEH-HRS	2855. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	354. VEH-HRS	418. PASS-HRS	2420. VEH-HRS	2855. PASS-HRS
TOTAL TRAV DISTANCE =	9823. VEH-MI.	11591. PASS-MI.	90021. VEH-MI.	106225. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		37. MPH.	
AVERAGE DENSITY =	54. VPMPL		42. VPMPL	
TOTAL FUEL =	574. GALLONS		4915. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		335. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3060.	0.	3060.	3060.	0.	3060.	3850.	0.	0.	0.	.79	50.	30.6	D	17.4	2.3
2	2	2070.	316.	0.	3376.	316.	0.	3026.	3832.	18.	* 1307.	350.	.79	44.	34.1	F	15.4	2.5
3	3	2300.	1232.	560.	4608.	1232.	560.	4258.	5668.	432.	** 2300.	350.	.75	22.	65.9	F	11.8	4.4
4	3	1020.	0.	0.	4048.	0.	0.	3698.	6100.	0.	** 1020.	350.	.61	11.	116.2	F	12.8	6.8
5	3	710.	56.	0.	4104.	56.	0.	3754.	6100.	0.	** 710.	350.	.62	11.	114.7	F	11.1	6.1
6	3	3820.	156.	1196.	4260.	156.	1196.	3910.	6133.	17.	** 3820.	350.	.64	12.	111.7	F	11.7	6.5
7	2	1220.	0.	0.	3064.	0.	0.	2714.	4400.	0.	** 1220.	350.	.62	11.	123.9	F	12.1	6.1
8	2	4810.	352.	764.	3416.	352.	764.	3066.	4600.	0.	** 4810.	350.	.67	13.	120.2	F	14.7	5.7
9	2	1370.	0.	0.	2652.	0.	0.	2302.	4000.	0.	** 1370.	350.	.58	10.	119.4	F	14.0	6.5
10	2	660.	256.	0.	2908.	256.	0.	2558.	4380.	20.	** 660.	350.	.58	10.	129.2	F	14.4	6.3
11	3	790.	1040.	684.	3948.	1040.	684.	3598.	5572.	528.	** 790.	350.	.65	12.	100.2	F	18.9	5.9
12	2	1460.	0.	0.	3264.	0.	0.	2914.	4100.	0.	** 1460.	350.	.71	15.	99.7	F	16.0	5.3
13	2	1400.	624.	0.	3888.	624.	0.	3538.	3970.	0.	** 1400.	350.	.89	26.	67.3	F	13.7	3.3
14	2	2600.	0.	400.	3888.	0.	400.	3538.	3970.	0.	** 2600.	350.	.89	26.	67.3	F	20.5	3.3
15	2	2010.	0.	0.	3488.	0.	0.	3138.	3900.	0.	** 2010.	350.	.80	20.	79.9	F	12.8	4.3
16	2	6120.	712.	524.	4200.	712.	480.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3676.	0.	0.	3370.	4300.	0.	0.	0.	.78	61.	27.5	D	18.5	3.9
18	3	930.	492.	0.	4168.	492.	0.	3862.	6098.	2.	0.	0.	.63	62.	20.8	C	20.6	4.4
19	3	5330.	204.	596.	4372.	204.	554.	4066.	6059.	41.	0.	0.	.67	62.	21.9	C	20.6	4.4
20	2	2830.	0.	0.	3776.	0.	0.	3511.	3800.	0.	0.	0.	.92	56.	31.2	D	22.8	2.3
21	3	1660.	436.	688.	4212.	436.	645.	3947.	5882.	218.	0.	0.	.67	61.	21.6	C	21.1	3.8
22	2	2270.	0.	0.	3524.	0.	0.	3303.	4400.	0.	0.	0.	.75	62.	26.8	D	20.7	4.2
23	2	3040.	148.	364.	3672.	148.	342.	3451.	4100.	0.	0.	0.	.84	60.	28.8	D	21.6	3.2
24	2	2190.	0.	0.	3308.	0.	0.	3109.	4200.	0.	0.	0.	.74	64.	24.2	C	19.5	5.7
25	3	2400.	120.	3428.	3428.	120.	3229.	3229.	6150.	0.	0.	0.	.52	65.	16.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 26.	56.8		16.8	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	377. VEH-HRS	445. PASS-HRS	2797. VEH-HRS	3301. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	377. VEH-HRS	445. PASS-HRS	2797. VEH-HRS	3301. PASS-HRS
TOTAL TRAV DISTANCE =	9949. VEH-MI.	11740. PASS-MI.	99970. VEH-MI.	117964. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		36. MPH.	
AVERAGE DENSITY =	57. VPMPL		43. VPMPL	
TOTAL FUEL =	591. GALLONS		5506. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		376. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2656.	0.	2656.	2656.	0.	2458.	3850.	0.	* 1109.	198.	.64	42.	29.0	F	16.8	2.6
2	2	2070.	396.	0.	3052.	396.	0.	2854.	3832.	18.	** 2070.	198.	.74	17.	84.0	F	11.5	5.3
3	3	2300.	1224.	532.	4276.	1224.	532.	4078.	5718.	382.	** 2300.	198.	.71	15.	92.3	F	10.7	5.8
4	3	1020.	0.	0.	3744.	0.	0.	3546.	6100.	0.	** 1020.	198.	.58	10.	120.4	F	12.3	7.0
5	3	710.	72.	0.	3816.	72.	0.	3618.	6100.	0.	** 710.	198.	.59	10.	118.4	F	10.9	6.3
6	3	3820.	168.	1144.	3984.	168.	1144.	3786.	6138.	12.	** 3820.	198.	.62	11.	115.2	F	11.5	6.7
7	2	1220.	0.	0.	2840.	0.	0.	2642.	4400.	0.	** 1220.	198.	.60	10.	126.8	F	11.9	6.2
8	2	4810.	384.	732.	3224.	384.	732.	3026.	4600.	0.	** 4810.	198.	.66	12.	121.8	F	14.5	5.8
9	2	1370.	0.	0.	2492.	0.	0.	2294.	4000.	0.	** 1370.	198.	.57	10.	119.7	F	13.9	6.5
10	2	660.	240.	0.	2732.	240.	0.	2534.	4380.	20.	** 660.	198.	.58	10.	130.2	F	14.1	6.4
11	3	790.	1040.	672.	3772.	1040.	672.	3574.	5588.	512.	** 790.	198.	.64	12.	101.4	F	18.7	5.9
12	2	1460.	0.	0.	3100.	0.	0.	2902.	4100.	0.	** 1460.	198.	.71	14.	100.2	F	15.9	5.4
13	2	1400.	636.	0.	3736.	636.	0.	3538.	3970.	0.	** 1400.	198.	.89	26.	67.3	F	13.7	3.3
14	2	2600.	0.	372.	3736.	0.	372.	3538.	3970.	0.	** 2600.	198.	.89	26.	67.3	F	20.5	3.3
15	2	2010.	0.	0.	3364.	0.	0.	3166.	3900.	0.	** 2010.	198.	.81	20.	78.7	F	12.9	4.2
16	2	6120.	684.	464.	4048.	684.	441.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3584.	0.	0.	3409.	4300.	0.	0.	0.	.79	61.	27.9	D	18.5	3.9
18	3	930.	544.	0.	4128.	544.	0.	3953.	6098.	2.	0.	0.	.65	62.	21.3	C	20.6	4.4
19	3	5330.	184.	540.	4312.	184.	518.	4137.	6059.	41.	0.	0.	.68	62.	22.2	C	20.6	4.4
20	2	2830.	0.	0.	3772.	0.	0.	3618.	3800.	0.	0.	0.	.95	55.	33.1	D	23.2	2.0
21	3	1660.	476.	648.	4248.	476.	624.	4094.	5858.	242.	0.	0.	.70	61.	22.4	C	21.1	3.8
22	2	2270.	0.	0.	3600.	0.	0.	3470.	4400.	0.	0.	0.	.79	61.	28.3	D	21.0	3.9
23	2	3040.	124.	356.	3724.	124.	344.	3594.	4100.	0.	0.	0.	.88	59.	30.6	D	22.0	2.9
24	2	2190.	0.	0.	3368.	0.	0.	3250.	4200.	0.	0.	0.	.77	64.	25.5	C	19.7	5.4
25	3	2400.	76.	3444.	3444.	76.	3326.	3326.	6150.	0.	0.	0.	.54	65.	17.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 24.	60.2	16.5	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	401. VEH-HRS	474. PASS-HRS	3199. VEH-HRS	3774. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	401. VEH-HRS	474. PASS-HRS	3199. VEH-HRS	3774. PASS-HRS
TOTAL TRAV DISTANCE =	9813. VEH-MI.	11579. PASS-MI.	109783. VEH-MI.	129543. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		34. MPH.	
AVERAGE DENSITY =	60. VPMPL		45. VPMPL	
TOTAL FUEL =	593. GALLONS		6100. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		418. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2916.	0.	2916.	2916.	0.	2862.	3850.	0.	* 1710.	54.	.74	34.	41.8	F	15.8	3.0
2	2	2070.	324.	0.	3240.	324.	0.	3186.	3833.	17.	** 2070.	54.	.83	21.	74.3	F	12.1	4.4
3	3	2300.	1068.	548.	4308.	1068.	548.	4254.	5710.	390.	** 2300.	54.	.74	16.	87.2	F	10.9	5.5
4	3	1020.	0.	0.	3760.	0.	0.	3706.	6100.	0.	** 1020.	54.	.61	11.	116.0	F	12.9	6.7
5	3	710.	72.	0.	3832.	72.	0.	3778.	6100.	0.	** 710.	54.	.62	11.	114.1	F	11.2	6.1
6	3	3820.	168.	1200.	4000.	168.	1200.	3946.	6133.	17.	** 3820.	54.	.64	12.	110.7	F	11.8	6.5
7	2	1220.	0.	0.	2800.	0.	0.	2746.	4400.	0.	** 1220.	54.	.62	11.	122.6	F	12.2	6.0
8	2	4810.	472.	752.	3272.	472.	752.	3218.	4600.	0.	** 4810.	54.	.70	14.	114.0	F	15.6	5.4
9	2	1370.	0.	0.	2520.	0.	0.	2466.	4000.	0.	** 1370.	54.	.62	11.	112.7	F	15.4	6.1
10	2	660.	200.	0.	2720.	200.	0.	2666.	4382.	18.	** 660.	54.	.61	11.	124.9	F	15.1	6.2
11	3	790.	1056.	724.	3776.	1056.	724.	3722.	5558.	542.	** 790.	54.	.67	13.	96.3	F	20.0	5.7
12	2	1460.	0.	0.	3052.	0.	0.	2998.	4100.	0.	** 1460.	54.	.73	16.	96.3	F	16.5	5.1
13	2	1400.	632.	0.	3684.	632.	0.	3630.	3970.	0.	** 1400.	54.	.91	29.	63.5	F	14.2	3.1
14	2	2600.	0.	440.	3684.	0.	440.	3630.	3970.	0.	** 2600.	54.	.91	29.	63.5	F	21.1	3.1
15	2	2010.	0.	0.	3244.	0.	0.	3190.	3900.	0.	** 2010.	54.	.82	21.	77.8	F	13.0	4.1
16	2	6120.	660.	528.	3904.	660.	521.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3376.	0.	0.	3329.	4300.	0.	0.	0.	.77	61.	27.1	D	18.4	4.0
18	3	930.	560.	0.	3936.	560.	0.	3889.	6099.	1.	0.	0.	.64	62.	20.9	C	20.6	4.4
19	3	5330.	188.	584.	4124.	188.	577.	4077.	6059.	41.	0.	0.	.67	62.	21.9	C	20.6	4.4
20	2	2830.	0.	0.	3540.	0.	0.	3500.	3800.	0.	0.	0.	.92	56.	31.0	D	22.7	2.3
21	3	1660.	512.	748.	4052.	512.	741.	4012.	5809.	291.	0.	0.	.69	61.	21.9	C	21.1	3.8
22	2	2270.	0.	0.	3304.	0.	0.	3271.	4400.	0.	0.	0.	.74	62.	26.5	D	20.7	4.2
23	2	3040.	156.	340.	3460.	156.	337.	3427.	4100.	0.	0.	0.	.84	60.	28.5	D	21.5	3.3
24	2	2190.	0.	0.	3120.	0.	0.	3091.	4200.	0.	0.	0.	.74	64.	24.0	C	19.4	5.8
25	3	2400.	120.	3240.	3240.	120.	3211.	3211.	6150.	0.	0.	0.	.52	65.	16.5	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 26.	58.8		16.6	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	390. VEH-HRS	461. PASS-HRS	3589. VEH-HRS	4235. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	390. VEH-HRS	461. PASS-HRS	3589. VEH-HRS	4235. PASS-HRS
TOTAL TRAV DISTANCE =	9960. VEH-MI.	11752. PASS-MI.	119742. VEH-MI.	141296. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		33. MPH.	
AVERAGE DENSITY =	59. VPMPL		46. VPMPL	
TOTAL FUEL =	599. GALLONS		6698. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		461. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1988.	0.	1988.	1988.	0.	1988.	3850.	0.	0.	0.	.52	38.	26.0	C	16.4	2.7
2	2	2070.	468.	0.	2456.	468.	0.	2870.	3837.	13.	* 102.	-414.	.75	19.	76.3	F	12.0	4.8
3	3	2300.	1260.	472.	3716.	1260.	472.	4130.	5789.	311.	** 2300.	-414.	.71	15.	93.4	F	10.7	5.8
4	3	1020.	0.	0.	3244.	0.	0.	3658.	6100.	0.	** 1020.	-414.	.60	10.	117.3	F	12.7	6.8
5	3	710.	80.	0.	3324.	80.	0.	3738.	6100.	0.	** 710.	-414.	.61	11.	115.2	F	11.1	6.1
6	3	3820.	180.	1196.	3504.	180.	1196.	3918.	6132.	18.	** 3820.	-414.	.64	12.	111.4	F	11.7	6.5
7	2	1220.	0.	0.	2308.	0.	0.	2722.	4400.	0.	** 1220.	-414.	.62	11.	123.5	F	12.2	6.1
8	2	4810.	392.	736.	2700.	392.	736.	3114.	4600.	0.	** 4810.	-414.	.68	13.	118.2	F	15.0	5.6
9	2	1370.	0.	0.	1964.	0.	0.	2378.	4000.	0.	** 1370.	-414.	.59	10.	116.3	F	14.8	6.2
10	2	660.	276.	0.	2240.	276.	0.	2654.	4373.	27.	** 660.	-414.	.61	11.	124.9	F	15.1	6.2
11	3	790.	1076.	716.	3316.	1076.	716.	3730.	5583.	517.	** 790.	-414.	.67	13.	97.0	F	19.9	5.7
12	2	1460.	0.	0.	2600.	0.	0.	3014.	4100.	0.	** 1460.	-414.	.74	16.	95.6	F	16.6	5.1
13	2	1400.	680.	0.	3280.	680.	0.	3694.	3970.	0.	** 1400.	-414.	.93	30.	60.9	F	14.5	2.9
14	2	2600.	0.	504.	3280.	0.	504.	3694.	3970.	0.	** 2600.	-414.	.93	30.	60.9	F	21.6	2.9
15	2	2010.	0.	0.	2776.	0.	0.	3190.	3900.	0.	** 2010.	-414.	.82	21.	77.8	F	13.0	4.1
16	2	6120.	660.	520.	3436.	660.	583.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2916.	0.	0.	3267.	4300.	0.	0.	0.	.76	62.	26.5	D	18.3	4.1
18	3	930.	560.	0.	3476.	560.	0.	3827.	6100.	0.	0.	0.	.63	62.	20.6	C	20.6	4.4
19	3	5330.	212.	576.	3688.	212.	631.	4039.	6074.	26.	0.	0.	.67	62.	21.7	C	20.6	4.4
20	2	2830.	0.	0.	3112.	0.	0.	3408.	3800.	0.	0.	0.	.90	57.	29.7	D	22.4	2.6
21	3	1660.	536.	744.	3648.	536.	805.	3944.	5800.	300.	0.	0.	.68	61.	21.6	C	21.1	3.8
22	2	2270.	0.	0.	2904.	0.	0.	3140.	4400.	0.	0.	0.	.71	62.	25.3	C	20.6	4.3
23	2	3040.	160.	360.	3064.	160.	387.	3300.	4100.	0.	0.	0.	.80	61.	27.1	D	21.1	3.7
24	2	2190.	0.	0.	2704.	0.	0.	2912.	4200.	0.	0.	0.	.69	65.	22.5	C	19.3	6.0
25	3	2400.	100.	2804.	2804.	100.	3012.	3012.	6150.	0.	0.	0.	.49	65.	15.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 25.	57.5		16.6	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	383. VEH-HRS	452. PASS-HRS	3972. VEH-HRS	4687. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	383. VEH-HRS	452. PASS-HRS	3972. VEH-HRS	4687. PASS-HRS
TOTAL TRAV DISTANCE =	9509. VEH-MI.	11221. PASS-MI.	129251. VEH-MI.	152516. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		33. MPH.	
AVERAGE DENSITY =	58. VPMPL		47. VPMPL	
TOTAL FUEL =	573. GALLONS		7271. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		502. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2460.	0.	2460.	2460.	0.	2460.	3850.	0.	0.	0.	.64	50.	24.6	C	17.4	2.3
2	2	2070.	316.	0.	2776.	316.	0.	2776.	3839.	11.	0.	0.	.72	50.	27.8	D	15.9	2.3
3	3	2300.	1172.	392.	3948.	1172.	392.	4294.	5838.	262.	* 71.	-346.	.74	23.	61.4	F	12.1	4.1
4	3	1020.	0.	0.	3556.	0.	0.	3902.	6100.	0.	** 1020.	-346.	.64	12.	110.7	F	13.5	6.5
5	3	710.	72.	0.	3628.	72.	0.	3974.	6100.	0.	** 710.	-346.	.65	12.	108.7	F	11.6	5.8
6	3	3820.	160.	1224.	3788.	160.	1224.	4134.	6134.	16.	** 3820.	-346.	.67	13.	105.6	F	12.2	6.2
7	2	1220.	0.	0.	2564.	0.	0.	2910.	4400.	0.	** 1220.	-346.	.66	13.	115.9	F	12.8	5.8
8	2	4810.	300.	764.	2864.	300.	764.	3210.	4600.	0.	** 4810.	-346.	.70	14.	114.3	F	15.6	5.5
9	2	1370.	0.	0.	2100.	0.	0.	2446.	4000.	0.	** 1370.	-346.	.61	11.	113.5	F	15.2	6.1
10	2	660.	352.	0.	2452.	352.	0.	2798.	4367.	33.	** 660.	-346.	.64	12.	118.7	F	16.1	5.9
11	3	790.	1024.	716.	3476.	1024.	716.	3822.	5557.	543.	** 790.	-346.	.69	14.	93.5	F	21.0	5.5
12	2	1460.	0.	0.	2760.	0.	0.	3106.	4100.	0.	** 1460.	-346.	.76	17.	91.9	F	17.1	4.9
13	2	1400.	632.	0.	3392.	632.	0.	3738.	3970.	0.	** 1400.	-346.	.94	32.	59.1	F	14.6	2.8
14	2	2600.	0.	516.	3392.	0.	516.	3738.	3970.	0.	** 2600.	-346.	.94	32.	59.1	F	21.9	2.8
15	2	2010.	0.	0.	2876.	0.	0.	3222.	3900.	0.	** 2010.	-346.	.83	21.	76.4	F	13.1	4.0
16	2	6120.	628.	532.	3504.	628.	584.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2972.	0.	0.	3266.	4300.	0.	0.	0.	.76	62.	26.5	D	18.3	4.1
18	3	930.	536.	0.	3508.	536.	0.	3802.	6100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
19	3	5330.	204.	588.	3712.	204.	635.	4006.	6071.	29.	0.	0.	.66	62.	21.5	C	20.6	4.4
20	2	2830.	0.	0.	3124.	0.	0.	3371.	3800.	0.	0.	0.	.89	58.	29.1	D	22.2	2.7
21	3	1660.	484.	740.	3608.	484.	791.	3855.	5850.	250.	0.	0.	.66	61.	21.1	C	21.1	3.8
22	2	2270.	0.	0.	2868.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	20.6	4.4
23	2	3040.	160.	372.	3028.	160.	396.	3224.	4100.	0.	0.	0.	.79	61.	26.3	D	21.0	3.9
24	2	2190.	0.	0.	2656.	0.	0.	2828.	4200.	0.	0.	0.	.67	65.	21.8	C	19.2	6.1
25	3	2400.	92.	2748.	2748.	92.	2920.	2920.	6150.	0.	0.	0.	.47	65.	15.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 28.	52.9		17.1	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	350. VEH-HRS	414. PASS-HRS	4322. VEH-HRS	5100. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	350. VEH-HRS	414. PASS-HRS	4322. VEH-HRS	5100. PASS-HRS
TOTAL TRAV DISTANCE =	9702. VEH-MI.	11448. PASS-MI.	138953. VEH-MI.	163965. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		32. MPH.	
AVERAGE DENSITY =	53. VPMPL		47. VPMPL	
TOTAL FUEL =	566. GALLONS		7838. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		542. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2256.	0.	2256.	2256.	0.	2256.	3850.	0.	0.	0.	.59	50.	22.6	C	17.4	2.3
2	2	2070.	304.	0.	2560.	304.	0.	2560.	3840.	10.	0.	0.	.67	50.	25.6	C	15.9	2.3
3	3	2300.	1156.	408.	3716.	1156.	408.	3716.	5837.	263.	0.	0.	.64	55.	22.6	C	14.0	2.4
4	3	1020.	0.	0.	3308.	0.	0.	3308.	6100.	0.	0.	0.	.54	21.	53.0	F	16.3	5.6
5	3	710.	72.	0.	3380.	72.	0.	3722.	6100.	0.	* 264.	-342.	.61	12.	107.7	F	11.4	6.0
6	3	3820.	160.	1152.	3540.	160.	1152.	3882.	6145.	5.	** 3820.	-342.	.63	11.	112.8	F	11.6	6.6
7	2	1220.	0.	0.	2388.	0.	0.	2730.	4400.	0.	** 1220.	-342.	.62	11.	123.2	F	12.2	6.1
8	2	4810.	380.	732.	2768.	380.	732.	3110.	4600.	0.	** 4810.	-342.	.68	13.	118.4	F	15.0	5.6
9	2	1370.	0.	0.	2036.	0.	0.	2378.	4000.	0.	** 1370.	-342.	.59	10.	116.3	F	14.8	6.2
10	2	660.	384.	0.	2420.	384.	0.	2762.	4365.	35.	** 660.	-342.	.63	12.	120.1	F	15.9	6.0
11	3	790.	972.	684.	3392.	972.	684.	3734.	5571.	529.	** 790.	-342.	.67	13.	96.4	F	20.1	5.7
12	2	1460.	0.	0.	2708.	0.	0.	3050.	4100.	0.	** 1460.	-342.	.74	16.	94.1	F	16.8	5.0
13	2	1400.	648.	0.	3356.	648.	0.	3698.	3970.	0.	** 1400.	-342.	.93	30.	60.7	F	14.5	2.9
14	2	2600.	0.	492.	3356.	0.	492.	3698.	3970.	0.	** 2600.	-342.	.93	30.	60.7	F	21.6	2.9
15	2	2010.	0.	0.	2864.	0.	0.	3206.	3900.	0.	** 2010.	-342.	.82	21.	77.1	F	13.1	4.1
16	2	6120.	644.	488.	3508.	644.	536.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	3020.	0.	0.	3314.	4300.	0.	0.	0.	.77	61.	27.0	D	18.4	4.0
18	3	930.	540.	0.	3560.	540.	0.	3854.	6100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
19	3	5330.	180.	572.	3740.	180.	617.	4034.	6071.	29.	0.	0.	.66	62.	21.7	C	20.6	4.4
20	2	2830.	0.	0.	3168.	0.	0.	3417.	3800.	0.	0.	0.	.90	57.	29.8	D	22.4	2.6
21	3	1660.	420.	688.	3588.	420.	736.	3837.	5913.	187.	0.	0.	.65	61.	21.0	C	21.1	3.8
22	2	2270.	0.	0.	2900.	0.	0.	3102.	4400.	0.	0.	0.	.70	62.	25.0	C	20.6	4.3
23	2	3040.	196.	368.	3096.	196.	392.	3298.	4100.	0.	0.	0.	.80	61.	27.1	D	21.1	3.7
24	2	2190.	0.	0.	2728.	0.	0.	2906.	4200.	0.	0.	0.	.69	65.	22.4	C	19.3	6.0
25	3	2400.	112.	2840.	2840.	112.	3018.	3018.	6150.	0.	0.	0.	.49	65.	15.5	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 28. 51.5 17.2 4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	338. VEH-HRS	399. PASS-HRS	4660. VEH-HRS	5499. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	338. VEH-HRS	399. PASS-HRS	4660. VEH-HRS	5499. PASS-HRS
TOTAL TRAV DISTANCE =	9493. VEH-MI.	11202. PASS-MI.	148446. VEH-MI.	175166. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		32. MPH.	
AVERAGE DENSITY =	52. VPMPL		47. VPMPL	
TOTAL FUEL =	550. GALLONS		8388. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		581. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2904.	0.	2904.	2904.	0.	2904.	3850.	0.	0.	0.	.75	50.	29.0	D	17.4	2.3
2	2	2070.	236.	0.	3140.	236.	0.	3140.	3841.	9.	0.	0.	.82	50.	31.4	D	15.9	2.3
3	3	2300.	1068.	380.	4208.	1068.	380.	4208.	5849.	251.	0.	0.	.72	55.	25.5	C	14.0	2.4
4	3	1020.	0.	0.	3828.	0.	0.	3828.	6100.	0.	0.	0.	.63	62.	20.6	C	19.9	4.8
5	3	710.	68.	0.	3896.	68.	0.	3896.	6100.	0.	0.	0.	.64	56.	23.1	C	16.0	4.4
6	3	3820.	140.	1204.	4036.	140.	1204.	4370.	6135.	15.	* 2199.	-334.	.71	17.	86.3	F	13.5	5.6
7	2	1220.	0.	0.	2832.	0.	0.	3166.	4400.	0.	** 1220.	-334.	.72	15.	105.4	F	14.0	5.3
8	2	4810.	268.	764.	3100.	268.	764.	3434.	4600.	0.	** 4810.	-334.	.75	16.	105.1	F	16.8	5.0
9	2	1370.	0.	0.	2336.	0.	0.	2670.	4000.	0.	** 1370.	-334.	.67	13.	104.3	F	17.1	5.7
10	2	660.	312.	0.	2648.	312.	0.	2982.	4371.	29.	** 660.	-334.	.68	13.	111.4	F	17.7	5.6
11	3	790.	996.	756.	3644.	996.	756.	3978.	5517.	583.	** 790.	-334.	.72	15.	87.9	F	23.0	5.2
12	2	1460.	0.	0.	2888.	0.	0.	3222.	4100.	0.	** 1460.	-334.	.79	18.	87.1	F	17.8	4.5
13	2	1400.	640.	0.	3528.	640.	0.	3862.	3970.	0.	** 1400.	-334.	.97	36.	54.0	F	14.8	2.5
14	2	2600.	0.	568.	3528.	0.	568.	3862.	3970.	0.	** 2600.	-334.	.97	36.	54.0	F	22.7	2.5
15	2	2010.	0.	0.	2960.	0.	0.	3294.	3900.	0.	** 2010.	-334.	.84	22.	73.5	F	13.4	3.8
16	2	6120.	556.	588.	3516.	556.	644.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2928.	0.	0.	3206.	4300.	0.	0.	0.	.75	62.	26.0	C	18.3	4.2
18	3	930.	524.	0.	3452.	524.	0.	3730.	6100.	0.	0.	0.	.61	62.	20.1	C	20.6	4.4
19	3	5330.	184.	620.	3636.	184.	667.	3914.	6074.	26.	0.	0.	.64	62.	21.0	C	20.6	4.4
20	2	2830.	0.	0.	3016.	0.	0.	3247.	3800.	0.	0.	0.	.85	59.	27.5	D	21.9	2.9
21	3	1660.	440.	756.	3456.	440.	807.	3687.	5894.	206.	0.	0.	.63	61.	20.1	C	21.1	3.8
22	2	2270.	0.	0.	2700.	0.	0.	2880.	4400.	0.	0.	0.	.65	62.	23.2	C	20.6	4.4
23	2	3040.	148.	384.	2848.	148.	408.	3028.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
24	2	2190.	0.	0.	2464.	0.	0.	2620.	4200.	0.	0.	0.	.62	65.	20.2	C	19.2	6.1
25	3	2400.	92.	2556.	2556.	92.	2712.	2712.	6150.	0.	0.	0.	.44	65.	13.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 33.		46.1	17.9	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	297. VEH-HRS	350. PASS-HRS	4957. VEH-HRS	5849. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	297. VEH-HRS	350. PASS-HRS	4957. VEH-HRS	5849. PASS-HRS
TOTAL TRAV DISTANCE =	9882. VEH-MI.	11660. PASS-MI.	158328. VEH-MI.	186827. PASS-MI.
AVERAGE SYSTEM SPEED =	33. MPH.		32. MPH.	
AVERAGE DENSITY =	46. VPMPL		47. VPMPL	
TOTAL FUEL =	552. GALLONS		8940. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		619. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2392.	0.	2392.	2392.	0.	2392.	3850.	0.	0.	0.	.62	50.	23.9	C	17.4	2.3
2	2	2070.	272.	0.	2664.	272.	0.	2664.	3841.	9.	0.	0.	.69	50.	26.6	D	15.9	2.3
3	3	2300.	1300.	332.	3964.	1300.	332.	3964.	5878.	222.	0.	0.	.67	55.	24.0	C	14.0	2.4
4	3	1020.	0.	0.	3632.	0.	0.	3632.	6100.	0.	0.	0.	.60	62.	19.5	C	19.9	4.8
5	3	710.	100.	0.	3732.	100.	0.	3732.	6100.	0.	0.	0.	.61	62.	20.1	C	16.1	4.4
6	3	3820.	172.	1140.	3904.	172.	1140.	3904.	6144.	6.	0.	0.	.64	33.	39.5	E	15.7	5.1
7	2	1220.	0.	0.	2764.	0.	0.	3218.	4400.	0.	* 731.	-454.	.73	16.	101.5	F	14.2	5.1
8	2	4810.	328.	680.	3092.	328.	680.	3546.	4600.	0.	** 4810.	-454.	.77	18.	100.6	F	17.4	4.7
9	2	1370.	0.	0.	2412.	0.	0.	2866.	4000.	0.	** 1370.	-454.	.72	15.	96.3	F	19.4	5.3
10	2	660.	204.	0.	2616.	204.	0.	3070.	4380.	20.	** 660.	-454.	.70	14.	108.3	F	18.6	5.4
11	3	790.	1012.	764.	3628.	1012.	764.	4082.	5524.	576.	** 790.	-454.	.74	16.	85.3	F	23.9	5.1
12	2	1460.	0.	0.	2864.	0.	0.	3318.	4100.	0.	** 1460.	-454.	.81	20.	83.2	F	18.5	4.2
13	2	1400.	612.	0.	3476.	612.	0.	3930.	3970.	0.	** 1400.	-454.	.99	38.	51.3	F	14.8	2.3
14	2	2600.	0.	612.	3476.	0.	612.	3930.	3970.	0.	** 2600.	-454.	.99	38.	51.3	F	23.0	2.3
15	2	2010.	0.	0.	2864.	0.	0.	3318.	3900.	0.	** 2010.	-454.	.85	23.	72.5	F	13.5	3.7
16	2	6120.	532.	628.	3396.	532.	712.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2768.	0.	0.	3138.	4300.	0.	0.	0.	.73	62.	25.4	C	18.2	4.3
18	3	930.	464.	0.	3232.	464.	0.	3602.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
19	3	5330.	172.	576.	3404.	172.	639.	3774.	6083.	17.	0.	0.	.62	62.	20.3	C	20.6	4.4
20	2	2830.	0.	0.	2828.	0.	0.	3136.	3800.	0.	0.	0.	.83	61.	25.7	C	21.1	3.8
21	3	1660.	456.	724.	3284.	456.	792.	3592.	5886.	214.	0.	0.	.61	61.	19.6	C	21.1	3.8
22	2	2270.	0.	0.	2560.	0.	0.	2800.	4400.	0.	0.	0.	.64	62.	22.6	C	20.6	4.4
23	2	3040.	132.	360.	2692.	132.	392.	2932.	4100.	0.	0.	0.	.72	62.	23.6	C	20.6	4.4
24	2	2190.	0.	0.	2332.	0.	0.	2539.	4200.	0.	0.	0.	.60	65.	19.5	C	19.2	6.1
25	3	2400.	76.	2408.	2408.	76.	2615.	2615.	6150.	0.	0.	0.	.43	65.	13.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 37.	41.1	18.3	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	260. VEH-HRS	306. PASS-HRS	5217. VEH-HRS	6155. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	260. VEH-HRS	306. PASS-HRS	5217. VEH-HRS	6155. PASS-HRS
TOTAL TRAV DISTANCE =	9547. VEH-MI.	11266. PASS-MI.	167875. VEH-MI.	198093. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		32. MPH.	
AVERAGE DENSITY =	41. VPMPL		47. VPMPL	
TOTAL FUEL =	521. GALLONS		9461. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		656. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2216.	0.	2216.	2216.	0.	2216.	3850.	0.	0.	0.	.58	50.	22.2	C	17.4	2.3
2	2	2070.	336.	0.	2552.	336.	0.	2552.	3841.	9.	0.	0.	.66	50.	25.5	C	15.9	2.3
3	3	2300.	1376.	320.	3928.	1376.	320.	3928.	5892.	208.	0.	0.	.67	55.	23.8	C	14.0	2.4
4	3	1020.	0.	0.	3608.	0.	0.	3608.	6100.	0.	0.	0.	.59	62.	19.4	C	19.9	4.8
5	3	710.	144.	0.	3752.	144.	0.	3752.	6100.	0.	0.	0.	.62	62.	20.2	C	16.1	4.4
6	3	3820.	144.	1040.	3896.	144.	1040.	3896.	6150.	0.	0.	0.	.63	62.	20.9	C	17.1	4.8
7	2	1220.	0.	0.	2856.	0.	0.	2856.	4400.	0.	0.	0.	.65	51.	28.2	D	17.8	4.4
8	2	4810.	320.	628.	3176.	320.	628.	3562.	4600.	0.	* 2161.	-386.	.77	21.	86.1	F	18.0	4.6
9	2	1370.	0.	0.	2548.	0.	0.	2934.	4000.	0.	** 1370.	-386.	.73	16.	93.5	F	20.1	5.1
10	2	660.	208.	0.	2756.	208.	0.	3142.	4382.	18.	** 660.	-386.	.72	15.	105.4	F	19.4	5.3
11	3	790.	936.	728.	3692.	936.	728.	4078.	5534.	566.	** 790.	-386.	.74	16.	85.8	F	23.8	5.1
12	2	1460.	0.	0.	2964.	0.	0.	3350.	4100.	0.	** 1460.	-386.	.82	20.	81.9	F	18.7	4.1
13	2	1400.	512.	0.	3476.	512.	0.	3862.	3970.	0.	** 1400.	-386.	.97	36.	54.0	F	14.8	2.5
14	2	2600.	0.	548.	3476.	0.	548.	3862.	3970.	0.	** 2600.	-386.	.97	36.	54.0	F	22.7	2.5
15	2	2010.	0.	0.	2928.	0.	0.	3314.	3900.	0.	** 2010.	-386.	.85	23.	72.7	F	13.5	3.8
16	2	6120.	536.	588.	3464.	536.	653.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2876.	0.	0.	3197.	4300.	0.	0.	0.	.74	62.	25.9	C	18.3	4.2
18	3	930.	424.	0.	3300.	424.	0.	3621.	6100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
19	3	5330.	148.	556.	3448.	148.	608.	3769.	6080.	20.	0.	0.	.62	62.	20.3	C	20.6	4.4
20	2	2830.	0.	0.	2892.	0.	0.	3161.	3800.	0.	0.	0.	.83	60.	26.5	D	21.7	3.1
21	3	1660.	400.	664.	3292.	400.	718.	3561.	5956.	144.	0.	0.	.60	61.	19.5	C	21.1	3.8
22	2	2270.	0.	0.	2628.	0.	0.	2843.	4400.	0.	0.	0.	.65	62.	22.9	C	20.6	4.4
23	2	3040.	168.	380.	2796.	168.	409.	3011.	4100.	0.	0.	0.	.73	62.	24.3	C	20.6	4.4
24	2	2190.	0.	0.	2416.	0.	0.	2602.	4200.	0.	0.	0.	.62	65.	20.0	C	19.2	6.1
25	3	2400.	76.	2492.	2492.	76.	2678.	2678.	6150.	0.	0.	0.	.44	65.	13.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 41.	37.2		18.7	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	233. VEH-HRS	275. PASS-HRS	5449. VEH-HRS	6430. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	233. VEH-HRS	275. PASS-HRS	5449. VEH-HRS	6430. PASS-HRS
TOTAL TRAV DISTANCE =	9453. VEH-MI.	11154. PASS-MI.	177328. VEH-MI.	209247. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		33. MPH.	
AVERAGE DENSITY =	37. VPMPL		46. VPMPL	
TOTAL FUEL =	506. GALLONS		9968. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		691. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2204.	0.	2204.	2204.	0.	2204.	3850.	0.	0.	0.	.57	50.	22.0	C	17.4	2.3
2	2	2070.	344.	0.	2548.	344.	0.	2548.	3840.	10.	0.	0.	.66	50.	25.5	C	15.9	2.3
3	3	2300.	1432.	372.	3980.	1432.	372.	3980.	5853.	247.	0.	0.	.68	55.	24.1	C	14.0	2.4
4	3	1020.	0.	0.	3608.	0.	0.	3608.	6100.	0.	0.	0.	.59	62.	19.4	C	19.9	4.8
5	3	710.	160.	0.	3768.	160.	0.	3768.	6100.	0.	0.	0.	.62	62.	20.3	C	16.1	4.4
6	3	3820.	240.	728.	4008.	240.	728.	4008.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3280.	0.	0.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	18.3	4.2
8	2	4810.	320.	664.	3600.	320.	664.	3600.	4600.	0.	0.	0.	.78	50.	36.2	E	20.7	3.9
9	2	1370.	0.	0.	2936.	0.	0.	2936.	4000.	0.	0.	0.	.73	24.	61.8	F	24.1	4.2
10	2	660.	252.	0.	3188.	252.	0.	3506.	4378.	22.	* 489.	-318.	.80	19.	90.0	F	23.6	4.3
11	3	790.	780.	772.	3968.	780.	772.	4286.	5454.	646.	** 790.	-318.	.79	18.	77.3	F	26.9	4.5
12	2	1460.	0.	0.	3196.	0.	0.	3514.	4100.	0.	** 1460.	-318.	.86	23.	75.2	F	19.6	3.7
13	2	1400.	416.	0.	3612.	416.	0.	3930.	3970.	0.	** 1400.	-318.	.99	38.	51.3	F	14.8	2.3
14	2	2600.	0.	496.	3612.	0.	496.	3930.	3970.	0.	** 2600.	-318.	.99	38.	51.3	F	23.0	2.3
15	2	2010.	0.	0.	3116.	0.	0.	3434.	3900.	0.	** 2010.	-318.	.88	25.	67.8	F	14.1	3.4
16	2	6120.	416.	644.	3532.	416.	702.	3850.	3850.	0.	0.	0.	1.00	52.	37.3	E	21.2	2.0
17	2	1240.	0.	0.	2888.	0.	0.	3148.	4300.	0.	0.	0.	.73	62.	25.5	C	18.2	4.3
18	3	930.	336.	0.	3224.	336.	0.	3484.	6100.	0.	0.	0.	.57	62.	18.7	C	20.6	4.4
19	3	5330.	136.	588.	3360.	136.	633.	3620.	6085.	15.	0.	0.	.59	62.	19.5	C	20.6	4.4
20	2	2830.	0.	0.	2772.	0.	0.	2987.	3800.	0.	0.	0.	.79	61.	24.5	C	21.1	3.8
21	3	1660.	328.	752.	3100.	328.	804.	3315.	5976.	124.	0.	0.	.55	61.	18.1	C	21.1	3.8
22	2	2270.	0.	0.	2348.	0.	0.	2511.	4400.	0.	0.	0.	.57	62.	20.2	C	20.6	4.4
23	2	3040.	140.	432.	2488.	140.	460.	2651.	4100.	0.	0.	0.	.65	62.	21.4	C	20.6	4.4
24	2	2190.	0.	0.	2056.	0.	0.	2191.	4200.	0.	0.	0.	.52	65.	16.9	B	19.2	6.1
25	3	2400.	72.	2128.	2128.	72.	2263.	2263.	6150.	0.	0.	0.	.37	65.	11.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 47.	31.1		19.0	3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	199. VEH-HRS	234. PASS-HRS	5648. VEH-HRS	6665. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	199. VEH-HRS	234. PASS-HRS	5648. VEH-HRS	6665. PASS-HRS
TOTAL TRAV DISTANCE =	9339. VEH-MI.	11020. PASS-MI.	186667. VEH-MI.	220267. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		33. MPH.	
AVERAGE DENSITY =	31. VPMPL		46. VPMPL	
TOTAL FUEL =	491. GALLONS		10459. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		725. KILOGRAMS	

```
QUEUE SPLIT SECTION 14
QUEUE CLEAR SECTION  15 T2 =0.227
QUEUE CLEAR SECTION  14 FT=    80
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1620.	0.	1620.	1620.	0.	1620.	3850.	0.	0.	0.	.42	50.	16.2	B	17.4	2.3
2	2	2070.	332.	0.	1952.	332.	0.	1952.	3848.	2.	0.	0.	.51	50.	19.5	C	15.9	2.3
3	3	2300.	1536.	352.	3488.	1536.	352.	3488.	5901.	199.	0.	0.	.59	55.	21.1	C	14.0	2.4
4	3	1020.	0.	0.	3136.	0.	0.	3136.	6100.	0.	0.	0.	.51	62.	16.9	B	19.9	4.8
5	3	710.	228.	0.	3364.	228.	0.	3364.	6100.	0.	0.	0.	.55	62.	18.1	C	16.1	4.4
6	3	3820.	292.	800.	3656.	292.	800.	3656.	6150.	0.	0.	0.	.59	62.	19.7	C	17.1	4.8
7	2	1220.	0.	0.	2856.	0.	0.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	18.2	4.4
8	2	4810.	420.	596.	3276.	420.	596.	3276.	4600.	0.	0.	0.	.71	62.	26.4	D	20.6	4.3
9	2	1370.	0.	0.	2680.	0.	0.	2680.	4000.	0.	0.	0.	.67	62.	21.6	C	23.6	4.4
10	2	660.	228.	0.	2908.	228.	0.	2908.	4380.	20.	0.	0.	.66	55.	26.4	D	23.5	4.4
11	3	790.	732.	680.	3640.	732.	680.	3640.	5532.	568.	0.	0.	.66	35.	34.6	D	28.1	4.5
12	2	1460.	0.	0.	2960.	0.	0.	2960.	4100.	0.	0.	0.	.72	31.	48.1	F	19.7	4.1
13	2	1400.	400.	0.	3360.	400.	0.	3360.	3970.	0.	0.	0.	.85	39.	43.4	E	14.6	2.7
14	2	2600.	0.	444.	3360.	0.	444.	3818.	3970.	0.	0.	-458.	.96	36.	53.4	F	22.4	2.6
15	2	2010.	0.	0.	2916.	0.	0.	3497.	3900.	0.	0.	-123.	.90	38.	45.9	F	15.0	3.1
16	2	6120.	316.	588.	3232.	316.	694.	3813.	3850.	0.	0.	0.	.99	52.	36.4	E	21.0	2.0
17	2	1240.	0.	0.	2644.	0.	0.	3119.	4300.	0.	0.	0.	.73	62.	25.2	C	18.2	4.3
18	3	930.	372.	0.	3016.	372.	0.	3491.	6100.	0.	0.	0.	.57	62.	18.8	C	20.6	4.4
19	3	5330.	108.	480.	3124.	108.	553.	3599.	6090.	10.	0.	0.	.59	62.	19.4	C	20.6	4.4
20	2	2830.	0.	0.	2644.	0.	0.	3046.	3800.	0.	0.	0.	.80	61.	25.0	C	21.1	3.8
21	3	1660.	324.	636.	2968.	324.	722.	3370.	6036.	64.	0.	0.	.56	61.	18.4	C	21.1	3.8
22	2	2270.	0.	0.	2332.	0.	0.	2648.	4400.	0.	0.	0.	.60	62.	21.4	C	20.6	4.4
23	2	3040.	96.	352.	2428.	96.	398.	2744.	4100.	0.	0.	0.	.67	62.	22.1	C	20.6	4.4
24	2	2190.	0.	0.	2076.	0.	0.	2345.	4200.	0.	0.	0.	.56	65.	18.0	C	19.2	6.1
25	3	2400.	68.	2144.	2144.	68.	2413.	2413.	6150.	0.	0.	0.	.39	65.	12.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 0.99	LOWEST LOS = F	AVG = 53.	25.6		19.1	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	165. VEH-HRS	194. PASS-HRS	5813. VEH-HRS	6859. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	165. VEH-HRS	194. PASS-HRS	5813. VEH-HRS	6859. PASS-HRS
TOTAL TRAV DISTANCE =	8772. VEH-MI.	10351. PASS-MI.	195439. VEH-MI.	230618. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		34. MPH.	
AVERAGE DENSITY =	26. VPMPL		45. VPMPL	
TOTAL FUEL =	459. GALLONS		10918. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		758. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1376.	0.	1376.	1376.	0.	1376.	3850.	0.	0.	0.	.36	50.	13.8	B	17.4	2.3
2	2	2070.	404.	0.	1780.	404.	0.	1780.	3850.	0.	0.	0.	.46	50.	17.8	B	15.9	2.3
3	3	2300.	1356.	348.	3136.	1356.	348.	3136.	5914.	186.	0.	0.	.53	55.	19.0	C	14.0	2.4
4	3	1020.	0.	0.	2788.	0.	0.	2788.	6100.	0.	0.	0.	.46	62.	15.0	B	19.9	4.8
5	3	710.	136.	0.	2924.	136.	0.	2924.	6100.	0.	0.	0.	.48	62.	15.7	B	16.1	4.4
6	3	3820.	284.	672.	3208.	284.	672.	3208.	6150.	0.	0.	0.	.52	62.	17.2	B	17.1	4.8
7	2	1220.	0.	0.	2536.	0.	0.	2536.	4400.	0.	0.	0.	.58	62.	20.5	C	18.2	4.4
8	2	4810.	396.	512.	2932.	396.	512.	2932.	4600.	0.	0.	0.	.64	62.	23.6	C	20.6	4.4
9	2	1370.	0.	0.	2420.	0.	0.	2420.	4000.	0.	0.	0.	.61	62.	19.5	C	23.6	4.4
10	2	660.	176.	0.	2596.	176.	0.	2596.	4384.	16.	0.	0.	.59	62.	20.9	C	23.6	4.4
11	3	790.	736.	692.	3332.	736.	692.	3332.	5540.	560.	0.	0.	.60	62.	17.9	B	30.0	4.4
12	2	1460.	0.	0.	2640.	0.	0.	2640.	4100.	0.	0.	0.	.64	62.	21.3	C	20.6	4.4
13	2	1400.	372.	0.	3012.	372.	0.	3012.	3970.	0.	0.	0.	.76	62.	24.3	C	13.6	4.4
14	2	2600.	0.	516.	3012.	0.	516.	3012.	3970.	0.	0.	0.	.76	62.	24.3	C	20.6	4.4
15	2	2010.	0.	0.	2496.	0.	0.	2496.	3900.	0.	0.	0.	.64	62.	20.1	C	14.7	4.4
16	2	6120.	308.	592.	2804.	308.	592.	2804.	3850.	0.	0.	0.	.73	62.	22.6	C	18.2	4.4
17	2	1240.	0.	0.	2212.	0.	0.	2212.	4300.	0.	0.	0.	.51	62.	17.8	B	18.2	4.4
18	3	930.	420.	0.	2632.	420.	0.	2632.	6100.	0.	0.	0.	.43	62.	14.2	B	20.6	4.4
19	3	5330.	112.	464.	2744.	112.	464.	2744.	6100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
20	2	2830.	0.	0.	2280.	0.	0.	2280.	3800.	0.	0.	0.	.60	61.	18.7	C	21.1	3.8
21	3	1660.	372.	668.	2652.	372.	668.	2652.	6002.	98.	0.	0.	.44	61.	14.5	B	21.1	3.8
22	2	2270.	0.	0.	1984.	0.	0.	1984.	4400.	0.	0.	0.	.45	62.	16.0	B	20.6	4.4
23	2	3040.	68.	320.	2052.	68.	320.	2052.	4100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
24	2	2190.	0.	0.	1732.	0.	0.	1732.	4200.	0.	0.	0.	.41	65.	13.3	B	19.2	6.1
25	3	2400.	64.	1796.	1796.	64.	1796.	1796.	6150.	0.	0.	0.	.29	65.	9.2	A	18.6	6.6
TOTAL		60550. =	11.5 MILES							MAX(V/C) = 0.76	LOWEST LOS = C		AVG = 61.		18.0		18.6	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 21 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	117. VEH-HRS	138. PASS-HRS	5929. VEH-HRS	6997. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	117. VEH-HRS	138. PASS-HRS	5929. VEH-HRS	6997. PASS-HRS
TOTAL TRAV DISTANCE =	7064. VEH-MI.	8336. PASS-MI.	202503. VEH-MI.	238954. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		34. MPH.	
AVERAGE DENSITY =	18. VPMPL		43. VPMPL	
TOTAL FUEL =	379. GALLONS		11297. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		788. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1196.	0.	1196.	1196.	0.	1196.	3850.	0.	0.	0.	.31	50.	12.0	B	17.4	2.3
2	2	2070.	452.	0.	1648.	452.	0.	1648.	3850.	0.	0.	0.	.43	50.	16.5	B	15.9	2.3
3	3	2300.	1308.	308.	2956.	1308.	308.	2956.	5945.	155.	0.	0.	.50	55.	17.9	B	14.0	2.4
4	3	1020.	0.	0.	2648.	0.	0.	2648.	6100.	0.	0.	0.	.43	62.	14.2	B	19.9	4.8
5	3	710.	80.	0.	2728.	80.	0.	2728.	6100.	0.	0.	0.	.45	62.	14.7	B	16.1	4.4
6	3	3820.	336.	616.	3064.	336.	616.	3064.	6150.	0.	0.	0.	.50	62.	16.5	B	17.1	4.8
7	2	1220.	0.	0.	2448.	0.	0.	2448.	4400.	0.	0.	0.	.56	62.	19.7	C	18.2	4.4
8	2	4810.	416.	600.	2864.	416.	600.	2864.	4600.	0.	0.	0.	.62	62.	23.1	C	20.6	4.4
9	2	1370.	0.	0.	2264.	0.	0.	2264.	4000.	0.	0.	0.	.57	62.	18.3	C	23.6	4.4
10	2	660.	180.	0.	2444.	180.	0.	2444.	4385.	15.	0.	0.	.56	62.	19.7	C	23.6	4.4
11	3	790.	636.	564.	3080.	636.	564.	3080.	5635.	465.	0.	0.	.55	62.	16.6	B	30.0	4.4
12	2	1460.	0.	0.	2516.	0.	0.	2516.	4100.	0.	0.	0.	.61	62.	20.3	C	20.6	4.4
13	2	1400.	312.	0.	2828.	312.	0.	2828.	3970.	0.	0.	0.	.71	62.	22.8	C	13.6	4.4
14	2	2600.	0.	472.	2828.	0.	472.	2828.	3970.	0.	0.	0.	.71	62.	22.8	C	20.6	4.4
15	2	2010.	0.	0.	2356.	0.	0.	2356.	3900.	0.	0.	0.	.60	62.	19.0	C	14.7	4.4
16	2	6120.	352.	588.	2708.	352.	588.	2708.	3850.	0.	0.	0.	.70	62.	21.8	C	18.2	4.4
17	2	1240.	0.	0.	2120.	0.	0.	2120.	4300.	0.	0.	0.	.49	62.	17.1	B	18.2	4.4
18	3	930.	272.	0.	2392.	272.	0.	2392.	6100.	0.	0.	0.	.39	62.	12.9	B	20.6	4.4
19	3	5330.	84.	464.	2476.	84.	464.	2476.	6100.	0.	0.	0.	.41	62.	13.3	B	20.6	4.4
20	2	2830.	0.	0.	2012.	0.	0.	2012.	3800.	0.	0.	0.	.53	61.	16.5	B	21.1	3.8
21	3	1660.	356.	588.	2368.	356.	588.	2368.	6060.	40.	0.	0.	.39	61.	12.9	B	21.1	3.8
22	2	2270.	0.	0.	1780.	0.	0.	1780.	4400.	0.	0.	0.	.40	62.	14.4	B	20.6	4.4
23	2	3040.	84.	340.	1864.	84.	340.	1864.	4100.	0.	0.	0.	.45	62.	15.0	B	20.6	4.4
24	2	2190.	0.	0.	1524.	0.	0.	1524.	4200.	0.	0.	0.	.36	65.	11.7	B	19.2	6.1
25	3	2400.	36.	1560.	1560.	36.	1560.	1560.	6150.	0.	0.	0.	.25	65.	8.0	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.71		LOWEST LOS = C	AVG = 61.	16.7		18.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	109. VEH-HRS	128. PASS-HRS	6038. VEH-HRS	7125. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	109. VEH-HRS	128. PASS-HRS	6038. VEH-HRS	7125. PASS-HRS
TOTAL TRAV DISTANCE =	6570. VEH-MI.	7752. PASS-MI.	209073. VEH-MI.	246706. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		35. MPH.	
AVERAGE DENSITY =	17. VPMPL		42. VPMPL	
TOTAL FUEL =	353. GALLONS		11650. GALLONS	
TOTAL EMISSIONS =	28. KILOGRAMS		815. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1132.	0.	1132.	1132.	0.	1132.	3850.	0.	0.	0.	.29	50.	11.3	B	17.4	2.3
2	2	2070.	448.	0.	1580.	448.	0.	1580.	3850.	0.	0.	0.	.41	50.	15.8	B	15.9	2.3
3	3	2300.	1324.	316.	2904.	1324.	316.	2904.	5945.	155.	0.	0.	.49	55.	17.6	B	14.0	2.4
4	3	1020.	0.	0.	2588.	0.	0.	2588.	6100.	0.	0.	0.	.42	62.	13.9	B	19.9	4.8
5	3	710.	96.	0.	2684.	96.	0.	2684.	6100.	0.	0.	0.	.44	62.	14.4	B	16.1	4.4
6	3	3820.	232.	592.	2916.	232.	592.	2916.	6150.	0.	0.	0.	.47	62.	15.7	B	17.1	4.8
7	2	1220.	0.	0.	2324.	0.	0.	2324.	4400.	0.	0.	0.	.53	62.	18.7	C	18.2	4.4
8	2	4810.	384.	684.	2708.	384.	684.	2708.	4600.	0.	0.	0.	.59	62.	21.8	C	20.6	4.4
9	2	1370.	0.	0.	2024.	0.	0.	2024.	4000.	0.	0.	0.	.51	62.	16.3	B	23.6	4.4
10	2	660.	196.	0.	2220.	196.	0.	2220.	4380.	20.	0.	0.	.51	62.	17.9	B	23.6	4.4
11	3	790.	520.	612.	2740.	520.	612.	2740.	5672.	428.	0.	0.	.48	62.	14.7	B	30.0	4.4
12	2	1460.	0.	0.	2128.	0.	0.	2128.	4100.	0.	0.	0.	.52	62.	17.2	B	20.6	4.4
13	2	1400.	292.	0.	2420.	292.	0.	2420.	3970.	0.	0.	0.	.61	62.	19.5	C	13.6	4.4
14	2	2600.	0.	392.	2420.	0.	392.	2420.	3970.	0.	0.	0.	.61	62.	19.5	C	20.6	4.4
15	2	2010.	0.	0.	2028.	0.	0.	2028.	3900.	0.	0.	0.	.52	62.	16.4	B	14.7	4.4
16	2	6120.	268.	520.	2296.	268.	520.	2296.	3850.	0.	0.	0.	.60	62.	18.5	C	18.2	4.4
17	2	1240.	0.	0.	1776.	0.	0.	1776.	4300.	0.	0.	0.	.41	62.	14.3	B	18.2	4.4
18	3	930.	168.	0.	1944.	168.	0.	1944.	6100.	0.	0.	0.	.32	62.	10.5	A	20.6	4.4
19	3	5330.	64.	388.	2008.	64.	388.	2008.	6100.	0.	0.	0.	.33	62.	10.8	A	20.6	4.4
20	2	2830.	0.	0.	1620.	0.	0.	1620.	3800.	0.	0.	0.	.43	61.	13.3	B	21.1	3.8
21	3	1660.	272.	444.	1892.	272.	444.	1892.	6100.	0.	0.	0.	.31	61.	10.3	A	21.1	3.8
22	2	2270.	0.	0.	1448.	0.	0.	1448.	4400.	0.	0.	0.	.33	62.	11.7	B	20.6	4.4
23	2	3040.	76.	300.	1524.	76.	300.	1524.	4100.	0.	0.	0.	.37	62.	12.3	B	20.6	4.4
24	2	2190.	0.	0.	1224.	0.	0.	1224.	4200.	0.	0.	0.	.29	65.	9.4	A	19.2	6.1
25	3	2400.	32.	1256.	1256.	32.	1256.	1256.	6150.	0.	0.	0.	.20	65.	6.4	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.61		LOWEST LOS = C	AVG = 60.	14.7		18.5	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	96. VEH-HRS	113. PASS-HRS	6134. VEH-HRS	7238. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	96. VEH-HRS	113. PASS-HRS	6134. VEH-HRS	7238. PASS-HRS
TOTAL TRAV DISTANCE =	5776. VEH-MI.	6816. PASS-MI.	214850. VEH-MI.	253522. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		35. MPH.	
AVERAGE DENSITY =	15. VPMPL		41. VPMPL	
TOTAL FUEL =	311. GALLONS		11961. GALLONS	
TOTAL EMISSIONS =	24. KILOGRAMS		840. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	178.	210.	0.	0.	178.	210.	10050.	11859.	56.4	518.	1.	25.	8.	14:00
2	203.	239.	0.	0.	203.	239.	10495.	12384.	51.8	543.	1.	25.	8.	14:15
3	218.	258.	0.	0.	218.	258.	9992.	11790.	45.8	525.	2.	26.	8.	14:30
4	253.	298.	0.	0.	253.	298.	10469.	12353.	41.4	556.	2.	27.	8.	14:45
5	285.	336.	0.	0.	285.	336.	9708.	11455.	34.1	537.	2.	28.	8.	15:00
6	301.	355.	0.	0.	301.	355.	9741.	11494.	32.4	545.	2.	28.	8.	15:15
7	303.	358.	0.	0.	303.	358.	9634.	11368.	31.8	541.	2.	28.	7.	15:30
8	325.	383.	0.	0.	325.	383.	10111.	11931.	31.2	576.	2.	29.	8.	15:45
9	354.	418.	0.	0.	354.	418.	9823.	11591.	27.7	574.	2.	30.	8.	16:00
10	377.	445.	0.	0.	377.	445.	9949.	11740.	26.4	591.	3.	31.	8.	16:15
11	401.	474.	0.	0.	401.	474.	9813.	11579.	24.4	593.	3.	32.	8.	16:30
12	390.	461.	0.	0.	390.	461.	9960.	11752.	25.5	599.	3.	32.	8.	16:45
13	383.	452.	0.	0.	383.	452.	9509.	11221.	24.8	573.	3.	31.	7.	17:00
14	350.	414.	0.	0.	350.	414.	9702.	11448.	27.7	566.	3.	30.	7.	17:15
15	338.	399.	0.	0.	338.	399.	9493.	11202.	28.1	550.	2.	29.	7.	17:30
16	297.	350.	0.	0.	297.	350.	9882.	11660.	33.3	552.	2.	28.	8.	17:45
17	260.	306.	0.	0.	260.	306.	9547.	11266.	36.8	521.	2.	27.	7.	18:00
18	233.	275.	0.	0.	233.	275.	9453.	11154.	40.6	506.	2.	26.	7.	18:15
19	199.	234.	0.	0.	199.	234.	9339.	11020.	47.0	491.	1.	25.	7.	18:30
20	165.	194.	0.	0.	165.	194.	8772.	10351.	53.3	459.	1.	24.	7.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	117.	138.	0.	0.	117.	138.	7064.	8336.	60.5	379.	1.	22.	6.	19:00
22	109.	128.	0.	0.	109.	128.	6570.	7752.	60.5	353.	1.	21.	6.	19:15
23	96.	113.	0.	0.	96.	113.	5776.	6816.	60.4	311.	1.	18.	5.	19:30
TOTAL	6134.	7238.	0.	0.	6134.	7238.	214850.	253522.	35.0	11961.	45.	625.	170.	

Horizon Year (2045) Interim Build
(Aux Lanes Only)
Northbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2232.	24.	2232.	2232.	24.	2232.	4400.	0.	0.	0.	.51	62.	18.0	C	13.6	4.8
2	2	1970.	0.	0.	2208.	0.	0.	2208.	4100.	0.	0.	0.	.54	62.	17.8	B	13.6	4.8
3	2	1830.	176.	24.	2384.	176.	24.	2384.	4100.	0.	0.	0.	.58	62.	19.2	C	13.6	4.8
4	2	2010.	0.	0.	2360.	0.	0.	2360.	4100.	0.	0.	0.	.58	62.	19.0	C	13.6	4.8
5	3	2445.	328.	96.	2688.	328.	96.	2688.	5600.	0.	0.	0.	.48	62.	14.5	B	13.6	4.8
6	2	1890.	0.	0.	2592.	0.	0.	2592.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
7	3	5320.	316.	136.	2908.	316.	136.	2908.	5600.	0.	0.	0.	.52	62.	15.6	B	13.6	4.8
8	2	880.	0.	0.	2772.	0.	0.	2772.	3900.	0.	0.	0.	.71	62.	22.4	C	14.9	4.8
9	2	1125.	84.	0.	2856.	84.	0.	2856.	3900.	0.	0.	0.	.73	62.	23.0	C	19.9	4.8
10	3	6320.	248.	84.	3104.	248.	84.	3104.	5599.	1.	0.	0.	.55	62.	16.7	B	19.9	4.8
11	2	2050.	0.	0.	3020.	0.	0.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
12	3	2560.	212.	0.	3232.	212.	0.	3232.	5589.	11.	0.	0.	.58	62.	17.4	B	17.2	4.8
13	3	1400.	0.	168.	3232.	0.	168.	3232.	5589.	11.	0.	0.	.58	62.	17.4	B	32.3	4.8
14	2	1320.	0.	0.	3064.	0.	0.	3064.	4400.	0.	0.	0.	.70	62.	24.7	C	14.9	4.8
15	3	540.	376.	548.	3440.	376.	548.	3440.	5284.	316.	0.	0.	.65	62.	18.5	C	12.6	4.8
16	2	1230.	0.	0.	2892.	0.	0.	2892.	4400.	0.	0.	0.	.66	62.	23.3	C	19.9	4.8
17	2	890.	408.	0.	3300.	408.	0.	3300.	4400.	0.	0.	0.	.75	62.	26.7	D	20.1	4.6
18	3	4840.	72.	424.	3372.	72.	424.	3372.	5578.	22.	0.	0.	.60	62.	18.1	C	17.2	4.8
19	2	530.	0.	0.	2948.	0.	0.	2948.	3800.	0.	0.	0.	.78	62.	23.8	C	19.9	4.8
20	2	1040.	504.	0.	3452.	504.	0.	3452.	4393.	7.	0.	0.	.79	61.	28.2	D	20.3	4.3
21	3	2810.	300.	280.	3752.	300.	280.	3752.	5576.	24.	0.	0.	.67	62.	20.2	C	24.1	4.8
22	2	1850.	0.	0.	3472.	0.	0.	3472.	4400.	0.	0.	0.	.79	61.	28.4	D	17.5	4.3
23	3	2390.	208.	216.	3680.	208.	216.	3680.	5580.	20.	0.	0.	.66	62.	19.8	C	24.1	4.8
24	3	960.	0.	1976.	3464.	0.	1500.	3464.	5600.	0.	0.	0.	.62	62.	18.6	C	17.2	4.8
25	2	1400.	0.	1488.	1488.	0.	1488.	1488.	3600.	0.	0.	0.	.41	62.	12.0	B	19.9	4.8
TOTAL		62500. =	11.8 MILES							MAX(V/C) = 0.79	LOWEST LOS = D		AVG = 62.		19.0		16.6	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	154. PASS-HRS	136. VEH-HRS	154. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	15. VEH-HRS	17. PASS-HRS	15. VEH-HRS	17. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	151. VEH-HRS	171. PASS-HRS	151. VEH-HRS	171. PASS-HRS
TOTAL TRAV DISTANCE =	8451. VEH-MI.	9567. PASS-MI.	8451. VEH-MI.	9567. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	19. VPMPL		19. VPMPL	
TOTAL FUEL =	515. GALLONS		515. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		41. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	119.	14.88	5.63	0.09	0.53	0.09	0.71

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2836.	20.	2836.	2836.	20.	2836.	4400.	0.	0.	0.	.64	62.	22.9	C	13.6	4.8
2	2	1970.	0.	0.	2816.	0.	0.	2816.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
3	2	1830.	204.	36.	3020.	204.	36.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	13.6	4.8
4	2	2010.	0.	0.	2984.	0.	0.	2984.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
5	3	2445.	440.	120.	3424.	440.	120.	3424.	5600.	0.	0.	0.	.61	62.	18.4	C	13.6	4.8
6	2	1890.	0.	0.	3304.	0.	0.	3304.	4100.	0.	0.	0.	.81	61.	27.1	D	13.9	4.1
7	3	5320.	324.	180.	3628.	324.	180.	3628.	5600.	0.	0.	0.	.65	62.	19.5	C	13.6	4.8
8	2	880.	0.	0.	3448.	0.	0.	3448.	3900.	0.	0.	0.	.88	59.	29.5	D	15.9	3.3
9	2	1125.	116.	0.	3564.	116.	0.	3564.	3900.	0.	0.	0.	.91	57.	31.2	D	21.7	2.9
10	3	6320.	292.	104.	3856.	292.	104.	3856.	5598.	2.	0.	0.	.69	62.	20.7	C	19.9	4.8
11	2	2050.	0.	0.	3752.	0.	0.	3752.	4100.	0.	0.	0.	.92	57.	32.9	D	21.7	2.9
12	3	2560.	248.	0.	4000.	248.	0.	4000.	5588.	12.	0.	0.	.72	62.	21.5	C	17.2	4.8
13	3	1400.	0.	172.	4000.	0.	172.	4000.	5588.	12.	0.	0.	.72	62.	21.5	C	32.3	4.8
14	2	1320.	0.	0.	3828.	0.	0.	3828.	4400.	0.	0.	0.	.87	59.	32.4	D	15.8	3.4
15	3	540.	376.	740.	4204.	376.	740.	4204.	5288.	312.	0.	0.	.80	62.	22.6	C	12.6	4.8
16	2	1230.	0.	0.	3464.	0.	0.	3464.	4400.	0.	0.	0.	.79	61.	28.3	D	20.3	4.3
17	2	890.	432.	0.	3896.	432.	0.	3896.	4398.	2.	0.	0.	.89	58.	33.3	D	21.3	3.2
18	3	4840.	84.	556.	3980.	84.	556.	3980.	5565.	35.	0.	0.	.72	62.	21.4	C	17.2	4.8
19	2	530.	0.	0.	3424.	0.	0.	3424.	3800.	0.	0.	0.	.90	58.	29.6	D	21.5	3.1
20	2	1040.	488.	0.	3912.	488.	0.	3912.	4390.	10.	0.	0.	.89	58.	33.6	D	21.4	3.2
21	3	2810.	348.	368.	4260.	348.	368.	4260.	5571.	29.	0.	0.	.76	62.	22.9	C	24.1	4.8
22	2	1850.	0.	0.	3892.	0.	0.	3892.	4400.	0.	0.	0.	.88	59.	33.3	D	18.4	3.3
23	3	2390.	204.	320.	4096.	204.	320.	4096.	5562.	38.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1944.	3776.	0.	1500.	3776.	5592.	8.	0.	0.	.68	62.	20.3	C	17.2	4.8
25	2	1400.	0.	1832.	1832.	0.	1832.	1832.	3600.	0.	0.	0.	.51	62.	14.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES						MAX(V/C) = 0.92		LOWEST LOS = D		AVG = 61.		23.5		16.7	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	168. VEH-HRS	191. PASS-HRS	305. VEH-HRS	345. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	44. VEH-HRS	49. PASS-HRS	59. VEH-HRS	66. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	212. VEH-HRS	240. PASS-HRS	363. VEH-HRS	411. PASS-HRS
TOTAL TRAV DISTANCE =	10316. VEH-MI.	11677. PASS-MI.	18767. VEH-MI.	21244. PASS-MI.
AVERAGE SYSTEM SPEED =	49. MPH.		62. MPH.	
AVERAGE DENSITY =	24. VPMPL		21. VPMPL	
TOTAL FUEL =	635. GALLONS		1150. GALLONS	
TOTAL EMISSIONS =	48. KILOGRAMS		89. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	230.	43.63	16.52	0.25	1.56	0.27	2.09

QUEUE COLLISION IN SECTION 8 T2 =0.036

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3756.	32.	3756.	3756.	32.	3756.	4400.	0.	0.	0.	.85	60.	31.5	D	14.2	3.5
2	2	1970.	0.	0.	3724.	0.	0.	3724.	4100.	0.	0.	0.	.91	57.	32.4	D	14.6	3.0
3	2	1830.	276.	160.	4000.	276.	160.	4000.	4100.	0.	0.	0.	.98	53.	37.4	E	15.4	2.4
4	2	2010.	0.	0.	3840.	0.	0.	3840.	4100.	0.	0.	0.	.94	56.	34.3	D	15.0	2.6
5	3	2445.	484.	144.	4324.	484.	144.	4244.	5600.	0.	* 583.	80.	.76	47.	29.9	F	13.3	4.8
6	2	1890.	0.	0.	4180.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
7	3	5320.	348.	256.	4528.	348.	251.	3991.	5600.	0.	* 2865.	457.	.71	35.	37.7	F	12.9	5.0
8	2	880.	0.	0.	4272.	0.	0.	3740.	3900.	0.	** 880.	160.	.96	35.	53.9	F	15.1	2.9
9	2	1125.	160.	0.	4432.	160.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	280.	156.	4712.	280.	138.	4180.	5597.	3.	0.	0.	.75	62.	22.5	C	19.9	4.8
11	2	2050.	0.	0.	4556.	0.	0.	4042.	4100.	0.	0.	0.	.99	53.	38.4	E	22.8	2.4
12	3	2560.	304.	0.	4860.	304.	0.	4346.	5584.	16.	0.	0.	.78	62.	23.4	C	17.2	4.8
13	3	1400.	0.	240.	4860.	0.	215.	4346.	5584.	16.	0.	0.	.78	62.	23.4	C	32.3	4.8
14	2	1320.	0.	0.	4620.	0.	0.	4131.	4400.	0.	0.	0.	.94	56.	37.0	E	16.5	2.6
15	3	540.	436.	988.	5056.	436.	892.	4567.	5248.	352.	0.	0.	.87	62.	24.6	C	12.6	4.8
16	2	1230.	0.	0.	4068.	0.	0.	3675.	4400.	0.	0.	0.	.84	60.	30.5	D	20.8	3.7
17	2	890.	444.	0.	4512.	444.	0.	4119.	4395.	5.	0.	0.	.94	56.	36.8	E	22.1	2.6
18	3	4840.	76.	692.	4588.	76.	633.	4195.	5551.	49.	0.	0.	.76	62.	22.6	C	17.2	4.8
19	2	530.	0.	0.	3896.	0.	0.	3562.	3800.	0.	0.	0.	.94	56.	31.9	D	22.1	2.6
20	2	1040.	492.	0.	4388.	492.	0.	4054.	4386.	14.	0.	0.	.92	57.	35.8	E	21.9	2.8
21	3	2810.	408.	560.	4796.	408.	521.	4462.	5559.	41.	0.	0.	.80	62.	24.0	C	24.1	4.8
22	2	1850.	0.	0.	4236.	0.	0.	3941.	4400.	0.	0.	0.	.90	58.	34.0	D	18.5	3.1
23	3	2390.	180.	312.	4416.	180.	292.	4121.	5559.	41.	0.	0.	.74	62.	22.2	C	24.1	4.8
24	3	960.	0.	2148.	4104.	0.	1500.	3829.	5589.	11.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1956.	1956.	0.	1825.	1825.	3600.	0.	0.	0.	.51	62.	14.7	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 55.	30.1		16.7	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	217. VEH-HRS	246. PASS-HRS	522. VEH-HRS	591. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	73. VEH-HRS	83. PASS-HRS	132. VEH-HRS	149. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	290. VEH-HRS	329. PASS-HRS	654. VEH-HRS	740. PASS-HRS
TOTAL TRAV DISTANCE =	11846. VEH-MI.	13410. PASS-MI.	30613. VEH-MI.	34654. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		59. MPH.	
AVERAGE DENSITY =	30. VPMPL		24. VPMPL	
TOTAL FUEL =	736. GALLONS		1886. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		140. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	356.	73.26	27.75	0.43	2.62	0.46	3.51

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3908.	60.	3908.	3908.	60.	3754.	4400.	0.	* 750.	154.	.85	57.	32.7	F	14.4	3.2
2	2	1970.	0.	0.	3848.	0.	0.	3694.	4100.	0.	** 1970.	154.	.90	33.	56.3	F	13.7	3.2
3	2	1830.	376.	328.	4224.	376.	316.	4070.	4070.	30.	0.	0.	1.00	52.	39.5	E	15.7	2.3
4	2	2010.	0.	0.	3896.	0.	0.	3426.	4100.	0.	* 1449.	328.	.84	49.	35.0	F	14.4	3.0
5	3	2445.	868.	200.	4764.	868.	194.	4294.	5518.	82.	** 2445.	328.	.78	22.	63.9	F	12.2	4.7
6	2	1890.	0.	0.	4564.	0.	0.	3688.	4100.	0.	* 1212.	412.	.90	50.	36.9	F	15.6	2.4
7	3	5320.	372.	336.	4936.	372.	304.	4060.	5600.	0.	** 5320.	412.	.72	18.	74.1	F	11.7	5.5
8	2	880.	0.	0.	4600.	0.	0.	3755.	3900.	0.	** 880.	145.	.96	34.	54.7	F	15.0	2.9
9	2	1125.	144.	0.	4744.	144.	0.	3899.	3899.	1.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	320.	216.	5064.	320.	180.	4219.	5594.	6.	0.	0.	.75	62.	22.7	C	19.9	4.8
11	2	2050.	0.	0.	4848.	0.	0.	4039.	4100.	0.	0.	0.	.99	53.	38.3	E	22.8	2.4
12	3	2560.	352.	0.	5200.	352.	0.	4391.	5572.	28.	0.	0.	.79	62.	23.6	C	17.2	4.8
13	3	1400.	0.	416.	5200.	0.	352.	4391.	5572.	28.	0.	0.	.79	62.	23.6	C	32.3	4.8
14	2	1320.	0.	0.	4784.	0.	0.	4040.	4400.	0.	0.	0.	.92	57.	35.5	E	16.2	2.9
15	3	540.	496.	1196.	5280.	496.	1027.	4536.	5216.	384.	0.	0.	.87	62.	24.4	C	12.6	4.8
16	2	1230.	0.	0.	4084.	0.	0.	3509.	4400.	0.	0.	0.	.80	61.	28.7	D	20.4	4.2
17	2	890.	432.	0.	4516.	432.	0.	3941.	4395.	5.	0.	0.	.90	58.	34.0	D	21.5	3.1
18	3	4840.	84.	784.	4600.	84.	686.	4025.	5545.	55.	0.	0.	.73	62.	21.6	C	17.2	4.8
19	2	530.	0.	0.	3816.	0.	0.	3339.	3800.	0.	0.	0.	.88	59.	28.4	D	21.3	3.3
20	2	1040.	536.	0.	4352.	536.	0.	3875.	4380.	20.	0.	0.	.88	58.	33.1	D	21.3	3.2
21	3	2810.	428.	756.	4780.	428.	680.	4303.	5539.	61.	0.	0.	.78	62.	23.1	C	24.1	4.8
22	2	1850.	0.	0.	4024.	0.	0.	3623.	4400.	0.	0.	0.	.82	60.	29.9	D	17.8	3.9
23	3	2390.	236.	192.	4260.	236.	175.	3859.	5550.	50.	0.	0.	.70	62.	20.7	C	24.1	4.8
24	3	960.	0.	2312.	4068.	0.	1500.	3684.	5591.	9.	0.	0.	.66	62.	19.8	C	17.2	4.8
25	2	1400.	0.	1756.	1756.	0.	1591.	1591.	3600.	0.	0.	0.	.44	62.	12.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 45.	35.0		16.4	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	261. VEH-HRS	295. PASS-HRS	783. VEH-HRS	886. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	108. VEH-HRS	122. PASS-HRS	239. VEH-HRS	271. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	369. VEH-HRS	417. PASS-HRS	1022. VEH-HRS	1157. PASS-HRS
TOTAL TRAV DISTANCE =	11735. VEH-MI.	13285. PASS-MI.	42348. VEH-MI.	47938. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		54. MPH.	
AVERAGE DENSITY =	35. VPMPL		27. VPMPL	
TOTAL FUEL =	757. GALLONS		2643. GALLONS	
TOTAL EMISSIONS =	52. KILOGRAMS		192. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	505.	107.58	40.75	0.63	3.85	0.67	5.15

```
QUEUE COLLISION IN SECTION   6 T2 =0.021
QUEUE CLEAR SECTION   2 FT=   768
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1948.	84.	1948.	1948.	84.	1948.	4400.	0.	0.	0.	.44	57.	17.2	B	13.5	4.8
2	2	1970.	0.	0.	1864.	0.	0.	2213.	4100.	0.	0.	-349.	.54	10.	111.1	F	9.1	7.2
3	2	1830.	632.	448.	2496.	632.	511.	2845.	3898.	202.	0.	0.	.73	62.	22.9	C	13.6	4.8
4	2	2010.	0.	0.	2048.	0.	0.	2334.	4100.	0.	0.	0.	.57	31.	38.2	E	12.6	5.2
5	3	2445.	1724.	288.	3772.	1500.	293.	4078.	5452.	148.	* 1960.	-244.	.75	17.	80.1	F	11.5	5.3
6	2	1890.	0.	0.	3484.	0.	0.	3785.	4100.	0.	** 1890.	305.	.92	30.	63.7	F	13.6	3.3
7	3	5320.	448.	424.	3932.	448.	489.	4233.	5600.	0.	** 5320.	305.	.76	17.	83.9	F	11.4	5.3
8	2	880.	0.	0.	3508.	0.	0.	3744.	3900.	0.	** 880.	156.	.96	34.	55.1	F	15.0	2.9
9	2	1125.	156.	0.	3664.	156.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	440.	260.	4104.	440.	275.	4340.	5597.	3.	0.	0.	.78	62.	23.3	C	19.9	4.8
11	2	2050.	0.	0.	3844.	0.	0.	4065.	4100.	0.	0.	0.	.99	52.	38.9	E	22.9	2.3
12	3	2560.	392.	0.	4236.	392.	0.	4457.	5564.	36.	0.	0.	.80	62.	24.0	C	17.2	4.8
13	3	1400.	0.	408.	4236.	0.	429.	4457.	5564.	36.	0.	0.	.80	62.	24.0	C	32.3	4.8
14	2	1320.	0.	0.	3828.	0.	0.	4028.	4400.	0.	0.	0.	.92	57.	35.3	E	16.2	2.9
15	3	540.	680.	1152.	4508.	680.	1203.	4708.	5092.	508.	0.	0.	.92	57.	27.7	D	13.7	2.8
16	2	1230.	0.	0.	3356.	0.	0.	3505.	4400.	0.	0.	0.	.80	61.	28.7	D	20.4	4.2
17	2	890.	508.	0.	3864.	508.	0.	4013.	4399.	1.	0.	0.	.91	57.	35.1	E	21.7	2.9
18	3	4840.	116.	748.	3980.	116.	776.	4129.	5555.	45.	0.	0.	.74	62.	22.2	C	17.2	4.8
19	2	530.	0.	0.	3232.	0.	0.	3354.	3800.	0.	0.	0.	.88	59.	28.6	D	21.3	3.3
20	2	1040.	648.	0.	3880.	648.	0.	4002.	4378.	22.	0.	0.	.91	57.	35.0	E	21.7	2.9
21	3	2810.	508.	724.	4388.	508.	744.	4510.	5529.	71.	0.	0.	.82	62.	24.2	C	24.1	4.8
22	2	1850.	0.	0.	3664.	0.	0.	3765.	4400.	0.	0.	0.	.86	60.	31.6	D	18.1	3.5
23	3	2390.	304.	172.	3968.	304.	177.	4069.	5538.	62.	0.	0.	.73	62.	21.9	C	24.1	4.8
24	3	960.	0.	1856.	3796.	0.	1500.	3892.	5586.	14.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	1940.	1940.	0.	1989.	1989.	3600.	0.	0.	0.	.55	62.	16.0	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 39.	35.9		16.2	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	267. VEH-HRS	302. PASS-HRS	1049. VEH-HRS	1188. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	7. VEH-HRS	8. PASS-HRS
OFF-RAMP DELAY =	139. VEH-HRS	157. PASS-HRS	378. VEH-HRS	428. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	412. VEH-HRS	467. PASS-HRS	1434. VEH-HRS	1624. PASS-HRS
TOTAL TRAV DISTANCE =	10313. VEH-MI.	11674. PASS-MI.	52661. VEH-MI.	59612. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		50. MPH.	
AVERAGE DENSITY =	36. VPMPL		29. VPMPL	
TOTAL FUEL =	694. GALLONS		3336. GALLONS	
TOTAL EMISSIONS =	53. KILOGRAMS		245. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	56.	7.00	2.65	0.04	0.25	0.04	0.33
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	56.	7.00	2.65	0.04	0.25	0.04	0.33
OFF-RAMP	11	OUTPUT POINT	605.	138.73	52.54	0.81	4.96	0.87	6.64

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1932.	104.	1932.	1932.	104.	1932.	4400.	0.	0.	0.	.44	62.	15.6	B	13.6	4.8
2	2	1970.	0.	0.	1828.	0.	0.	1828.	4100.	0.	0.	0.	.45	62.	14.7	B	13.6	4.8
3	2	1830.	724.	392.	2552.	724.	392.	2552.	3918.	182.	0.	0.	.65	62.	20.6	C	13.6	4.8
4	2	2010.	0.	0.	2160.	0.	0.	2160.	4100.	0.	0.	0.	.53	62.	17.4	B	13.6	4.8
5	3	2445.	1548.	384.	3708.	1500.	374.	3660.	5376.	224.	0.	0.	.68	29.	42.7	E	12.6	5.1
6	2	1890.	0.	0.	3324.	0.	0.	3584.	4100.	0.	* 1683.	-298.	.87	25.	72.2	F	12.8	3.8
7	3	5320.	668.	576.	3992.	668.	564.	4252.	5600.	0.	** 5320.	-298.	.76	17.	83.4	F	11.5	5.3
8	2	880.	0.	0.	3416.	0.	0.	3688.	3900.	0.	** 880.	-298.	.95	32.	57.4	F	14.8	3.1
9	2	1125.	212.	0.	3628.	212.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	544.	348.	4172.	544.	368.	4444.	5594.	6.	0.	0.	.79	62.	23.9	C	19.9	4.8
11	2	2050.	0.	0.	3824.	0.	0.	4076.	4100.	0.	0.	0.	.99	52.	39.2	E	22.9	2.3
12	3	2560.	520.	0.	4344.	520.	0.	4342.	5564.	36.	* 160.	255.	.78	62.	23.5	F	17.2	4.8
13	3	1400.	0.	288.	4344.	0.	310.	4342.	5564.	36.	** 1400.	255.	.78	31.	46.3	F	30.7	4.9
14	2	1320.	0.	0.	4056.	0.	0.	4032.	4400.	0.	** 1320.	255.	.92	31.	66.0	F	14.7	3.2
15	3	540.	892.	1188.	4948.	892.	1184.	4924.	4924.	676.	0.	0.	1.00	52.	31.8	E	14.5	2.3
16	2	1230.	0.	0.	3760.	0.	0.	3740.	4400.	0.	0.	0.	.85	60.	31.3	D	21.0	3.6
17	2	890.	600.	0.	4360.	600.	0.	4340.	4395.	5.	0.	0.	.99	53.	41.3	E	22.8	2.4
18	3	4840.	160.	776.	4520.	160.	774.	4453.	5534.	66.	* 279.	46.	.80	59.	25.0	F	17.1	4.8
19	2	530.	0.	0.	3744.	0.	0.	3679.	3800.	0.	** 530.	46.	.97	37.	49.8	F	21.8	2.8
20	2	1040.	692.	0.	4436.	692.	0.	4371.	4371.	29.	0.	0.	1.00	52.	42.4	E	23.0	2.3
21	3	2810.	776.	908.	5212.	776.	896.	5147.	5192.	408.	0.	0.	.99	52.	32.8	D	29.9	2.3
22	2	1850.	0.	0.	4304.	0.	0.	4251.	4400.	0.	0.	0.	.97	54.	39.3	E	19.5	2.4
23	3	2390.	304.	200.	4608.	304.	197.	4555.	5524.	76.	0.	0.	.82	62.	24.5	C	24.1	4.8
24	3	960.	0.	1676.	4408.	0.	1500.	4358.	5573.	27.	0.	0.	.78	62.	23.4	C	17.2	4.8
25	2	1400.	0.	2732.	2732.	0.	2694.	2694.	3600.	0.	0.	0.	.75	62.	21.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 42.	33.3		16.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	253. VEH-HRS	286. PASS-HRS	1302. VEH-HRS	1474. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	15. VEH-HRS	18. PASS-HRS	22. VEH-HRS	25. PASS-HRS
OFF-RAMP DELAY =	156. VEH-HRS	177. PASS-HRS	535. VEH-HRS	605. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	425. VEH-HRS	481. PASS-HRS	1859. VEH-HRS	2104. PASS-HRS
TOTAL TRAV DISTANCE =	10616. VEH-MI.	12017. PASS-MI.	63277. VEH-MI.	71629. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		49. MPH.	
AVERAGE DENSITY =	33. VPMPL		29. VPMPL	
TOTAL FUEL =	697. GALLONS		4033. GALLONS	
TOTAL EMISSIONS =	53. KILOGRAMS		298. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	68.	15.50	5.87	0.09	0.55	0.10	0.74
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	68.	15.50	5.87	0.09	0.55	0.10	0.74
OFF-RAMP	11	OUTPUT POINT	646.	156.44	59.25	0.91	5.60	0.98	7.48

QUEUE COLLISION IN SECTION 20 T2 =0.025

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2920.	136.	2920.	2920.	136.	2920.	4400.	0.	0.	0.	.66	62.	23.5	C	13.6	4.8
2	2	1970.	0.	0.	2784.	0.	0.	2784.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
3	2	1830.	452.	172.	3236.	452.	172.	3236.	4100.	0.	0.	0.	.79	61.	26.4	D	13.8	4.3
4	2	2010.	0.	0.	3064.	0.	0.	3064.	4100.	0.	0.	0.	.75	62.	24.7	C	13.6	4.8
5	3	2445.	640.	304.	3704.	912.	331.	3905.	5449.	151.	* 385.	71.	.72	52.	25.2	F	13.4	4.8
6	2	1890.	0.	0.	3400.	0.	0.	3574.	4100.	0.	** 1890.	71.	.87	25.	72.3	F	12.8	3.8
7	3	5320.	844.	696.	4244.	844.	730.	4418.	5600.	0.	** 5320.	71.	.79	19.	78.9	F	11.7	4.9
8	2	880.	0.	0.	3548.	0.	0.	3688.	3900.	0.	** 880.	71.	.95	32.	57.4	F	14.8	3.1
9	2	1125.	212.	0.	3760.	212.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	516.	412.	4276.	516.	422.	3785.	5591.	9.	* 920.	631.	.68	59.	21.5	F	19.8	4.8
11	2	2050.	0.	0.	3864.	0.	0.	3362.	4100.	0.	** 2050.	631.	.82	36.	46.9	F	20.9	3.0
12	3	2560.	652.	0.	4516.	652.	0.	4014.	5568.	32.	** 2560.	631.	.72	19.	69.8	F	14.2	5.1
13	3	1400.	0.	228.	4516.	0.	238.	4014.	5568.	32.	** 1400.	631.	.72	15.	88.7	F	24.6	5.7
14	2	1320.	0.	0.	4288.	0.	0.	3776.	4400.	0.	** 1320.	624.	.86	23.	80.5	F	13.4	4.0
15	3	540.	1048.	1380.	5336.	1048.	1245.	4824.	4824.	776.	0.	0.	1.00	52.	31.2	E	14.5	2.3
16	2	1230.	0.	0.	3956.	0.	0.	3579.	4400.	0.	0.	0.	.81	61.	29.5	D	20.6	4.0
17	2	890.	616.	0.	4572.	616.	0.	4195.	4393.	7.	0.	0.	.95	55.	38.3	E	22.4	2.4
18	3	4840.	136.	728.	4708.	136.	672.	3770.	5531.	69.	* 3321.	561.	.68	30.	42.0	F	15.4	5.2
19	2	530.	0.	0.	3980.	0.	0.	3098.	3800.	0.	** 530.	561.	.82	21.	72.2	F	18.3	4.3
20	2	1040.	728.	0.	4708.	728.	0.	3826.	4363.	37.	** 1040.	537.	.88	26.	74.2	F	19.5	3.7
21	3	2810.	1016.	1136.	5724.	1016.	958.	4842.	4842.	758.	0.	0.	1.00	52.	31.3	E	30.3	2.3
22	2	1850.	0.	0.	4588.	0.	0.	3884.	4400.	0.	0.	0.	.88	59.	33.1	D	18.3	3.3
23	3	2390.	368.	260.	4956.	368.	223.	4252.	5500.	100.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1900.	4696.	0.	1500.	4029.	5564.	36.	0.	0.	.72	62.	21.7	C	17.2	4.8
25	2	1400.	0.	2796.	2796.	0.	2399.	2399.	3600.	0.	0.	0.	.67	62.	19.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 37.	39.3		16.0	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	303. VEH-HRS	343. PASS-HRS	1605. VEH-HRS	1817. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	8. VEH-HRS	10. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	166. VEH-HRS	187. PASS-HRS	700. VEH-HRS	793. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	477. VEH-HRS	540. PASS-HRS	2336. VEH-HRS	2644. PASS-HRS
TOTAL TRAV DISTANCE =	11098. VEH-MI.	12563. PASS-MI.	74374. VEH-MI.	84192. PASS-MI.
AVERAGE SYSTEM SPEED =	23. MPH.		46. MPH.	
AVERAGE DENSITY =	39. VPMPL		31. VPMPL	
TOTAL FUEL =	761. GALLONS		4794. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		355. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	0.	8.50	3.22	0.05	0.30	0.05	0.41
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	8.50	3.22	0.05	0.30	0.05	0.41
OFF-RAMP	11	OUTPUT POINT	679.	165.61	62.73	0.96	5.93	1.03	7.92

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2624.	176.	2624.	2624.	176.	2624.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2448.	0.	0.	2448.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
3	2	1830.	372.	160.	2820.	372.	160.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
4	2	2010.	0.	0.	2660.	0.	0.	2660.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
5	3	2445.	656.	288.	3316.	656.	288.	3316.	5565.	35.	0.	0.	.60	60.	18.4	C	13.5	4.8
6	2	1890.	0.	0.	3028.	0.	0.	3028.	4100.	0.	0.	0.	.74	46.	33.0	D	13.4	4.5
7	3	5320.	764.	700.	3792.	764.	700.	4392.	5600.	0.	* 2318.	-600.	.78	21.	70.2	F	12.0	4.9
8	2	880.	0.	0.	3092.	0.	0.	3692.	3900.	0.	** 880.	-600.	.95	32.	57.2	F	14.8	3.1
9	2	1125.	208.	0.	3300.	208.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	452.	384.	3752.	452.	445.	3631.	5595.	5.	* 5055.	721.	.65	22.	54.0	F	16.7	5.5
11	2	2050.	0.	0.	3368.	0.	0.	3186.	4100.	0.	** 2050.	721.	.78	18.	88.6	F	16.8	5.0
12	3	2560.	756.	0.	4124.	756.	0.	3942.	5548.	52.	** 2560.	721.	.71	15.	90.0	F	13.0	5.8
13	3	1400.	0.	288.	4124.	0.	326.	3942.	5548.	52.	** 1400.	721.	.71	15.	90.0	F	23.8	5.8
14	2	1320.	0.	0.	3836.	0.	0.	3616.	4400.	0.	** 1320.	721.	.82	21.	87.0	F	12.9	4.5
15	3	540.	1148.	1364.	4984.	1148.	1304.	4764.	4764.	836.	0.	0.	1.00	52.	30.8	E	14.5	2.3
16	2	1230.	0.	0.	3620.	0.	0.	3460.	4400.	0.	0.	0.	.79	61.	28.3	D	20.3	4.3
17	2	890.	480.	0.	4100.	480.	0.	3940.	4397.	3.	0.	0.	.90	58.	34.0	D	21.5	3.1
18	3	4840.	160.	676.	4260.	160.	651.	3909.	5552.	48.	* 4543.	192.	.70	17.	77.4	F	13.5	5.7
19	2	530.	0.	0.	3584.	0.	0.	3258.	3800.	0.	** 530.	192.	.86	23.	69.6	F	18.8	4.0
20	2	1040.	728.	0.	4312.	728.	0.	3986.	4364.	36.	** 1040.	192.	.91	28.	70.0	F	20.2	3.4
21	3	2810.	948.	1128.	5260.	948.	1058.	4934.	4934.	666.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	4132.	0.	0.	3876.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	412.	312.	4544.	412.	295.	4288.	5501.	99.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1820.	4232.	0.	1500.	3993.	5565.	35.	0.	0.	.72	62.	21.5	C	17.2	4.8
25	2	1400.	0.	2412.	2412.	0.	2276.	2276.	3600.	0.	0.	0.	.63	62.	18.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 30.	44.5		15.5	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	347. VEH-HRS	393. PASS-HRS	1952. VEH-HRS	2209. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	176. VEH-HRS	200. PASS-HRS	877. VEH-HRS	992. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	524. VEH-HRS	593. PASS-HRS	2859. VEH-HRS	3237. PASS-HRS
TOTAL TRAV DISTANCE =	10394. VEH-MI.	11767. PASS-MI.	84769. VEH-MI.	95958. PASS-MI.
AVERAGE SYSTEM SPEED =	20. MPH.		43. MPH.	
AVERAGE DENSITY =	45. VPMPL		33. VPMPL	
TOTAL FUEL =	739. GALLONS		5533. GALLONS	
TOTAL EMISSIONS =	57. KILOGRAMS		412. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	733.	176.43	66.83	1.03	6.31	1.10	8.44

```
QUEUE COLLISION IN SECTION  15 T2 =0.237
QUEUE COLLISION IN SECTION   9 T2 =0.114
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2884.	172.	2884.	2884.	172.	2884.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
2	2	1970.	0.	0.	2712.	0.	0.	2712.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
3	2	1830.	364.	204.	3076.	364.	204.	3076.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
4	2	2010.	0.	0.	2872.	0.	0.	2872.	4100.	0.	0.	0.	.70	62.	23.2	C	13.6	4.8
5	3	2445.	720.	416.	3592.	720.	416.	3592.	5451.	149.	0.	0.	.66	62.	19.3	C	13.6	4.8
6	2	1890.	0.	0.	3176.	0.	0.	3176.	4100.	0.	0.	0.	.77	61.	25.9	C	13.7	4.4
7	3	5320.	672.	672.	3848.	672.	672.	3592.	5600.	0.	* 1756.	256.	.64	32.	38.0	F	12.7	5.1
8	2	880.	0.	0.	3176.	0.	0.	2920.	3900.	0.	** 880.	256.	.75	21.	69.1	F	13.2	4.3
9	2	1125.	216.	0.	3392.	216.	0.	3136.	3900.	0.	** 1125.	667.	.80	27.	57.3	F	19.5	3.6
10	3	6320.	412.	372.	3804.	412.	412.	3548.	5594.	6.	** 6320.	667.	.63	12.	99.0	F	13.6	6.4
11	2	2050.	0.	0.	3432.	0.	0.	3135.	4100.	0.	** 2050.	667.	.76	17.	90.7	F	16.5	5.2
12	3	2560.	744.	0.	4176.	744.	0.	3879.	5544.	56.	** 2560.	667.	.70	14.	91.5	F	12.7	5.9
13	3	1400.	0.	312.	4176.	0.	339.	3879.	5544.	56.	** 1400.	667.	.70	14.	91.5	F	23.0	5.9
14	2	1320.	0.	0.	3864.	0.	0.	3246.	4400.	0.	** 1320.	961.	.74	20.	83.0	F	12.7	4.7
15	3	540.	1188.	1348.	5052.	1188.	1261.	4434.	4728.	872.	** 540.	294.	.94	49.	30.2	F	14.4	2.4
16	2	1230.	0.	0.	3704.	0.	0.	3173.	4400.	0.	** 1230.	294.	.72	30.	53.4	F	18.4	4.8
17	2	890.	504.	0.	4208.	504.	0.	3677.	4396.	4.	** 890.	294.	.84	27.	69.1	F	19.1	3.9
18	3	4840.	204.	608.	4412.	204.	575.	3881.	5557.	43.	** 4840.	294.	.70	14.	91.6	F	12.7	5.9
19	2	530.	0.	0.	3804.	0.	0.	3306.	3800.	0.	** 530.	294.	.87	24.	67.7	F	19.1	3.9
20	2	1040.	684.	0.	4488.	684.	0.	3990.	4365.	35.	** 1040.	294.	.91	29.	69.9	F	20.2	3.4
21	3	2810.	944.	1132.	5432.	944.	1028.	4934.	4934.	666.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	4300.	0.	0.	3906.	4400.	0.	0.	0.	.89	58.	33.5	D	18.4	3.2
23	3	2390.	444.	256.	4744.	444.	235.	4350.	5481.	119.	0.	0.	.79	62.	23.4	C	24.1	4.8
24	3	960.	0.	1880.	4488.	0.	1500.	4115.	5560.	40.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2608.	2608.	0.	2391.	2391.	3600.	0.	0.	0.	.66	62.	19.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 27.	49.5		15.0	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	387. VEH-HRS	438. PASS-HRS	2338. VEH-HRS	2647. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	190. VEH-HRS	215. PASS-HRS	1067. VEH-HRS	1208. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	577. VEH-HRS	653. PASS-HRS	3436. VEH-HRS	3890. PASS-HRS
TOTAL TRAV DISTANCE =	10346. VEH-MI.	11711. PASS-MI.	95115. VEH-MI.	107670. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		41. MPH.	
AVERAGE DENSITY =	49. VPMPL		34. VPMPL	
TOTAL FUEL =	761. GALLONS		6294. GALLONS	
TOTAL EMISSIONS =	59. KILOGRAMS		471. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	789.	190.20	72.04	1.11	6.81	1.19	9.10

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2880.	160.	2880.	2880.	160.	2880.	4400.	0.	0.	0.	.65	62.	23.2	C	13.6	4.8
2	2	1970.	0.	0.	2720.	0.	0.	2720.	4100.	0.	0.	0.	.66	62.	21.9	C	13.6	4.8
3	2	1830.	404.	268.	3124.	404.	268.	3124.	4100.	0.	0.	0.	.76	62.	25.4	C	13.7	4.5
4	2	2010.	0.	0.	2856.	0.	0.	2856.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
5	3	2445.	980.	424.	3836.	980.	424.	3836.	5363.	237.	0.	0.	.72	62.	20.6	C	13.6	4.8
6	2	1890.	0.	0.	3412.	0.	0.	3412.	4100.	0.	0.	0.	.83	60.	28.3	D	14.0	3.8
7	3	5320.	616.	664.	4028.	616.	664.	3408.	5600.	0.	* 4975.	620.	.61	16.	70.5	F	11.1	5.9
8	2	880.	0.	0.	3364.	0.	0.	2744.	3900.	0.	** 880.	620.	.70	14.	96.0	F	11.7	5.9
9	2	1125.	184.	0.	3548.	184.	0.	2928.	3900.	0.	** 1125.	620.	.75	17.	88.4	F	16.2	5.4
10	3	6320.	364.	388.	3912.	364.	388.	3292.	5595.	5.	** 6320.	620.	.59	10.	109.3	F	12.6	6.9
11	2	2050.	0.	0.	3524.	0.	0.	2904.	4100.	0.	** 2050.	620.	.71	15.	100.1	F	15.3	5.8
12	3	2560.	668.	0.	4192.	668.	0.	3572.	5552.	48.	** 2560.	620.	.64	12.	100.2	F	11.8	6.4
13	3	1400.	0.	292.	4192.	0.	292.	3572.	5552.	48.	** 1400.	620.	.64	12.	100.2	F	19.8	6.4
14	2	1320.	0.	0.	3900.	0.	0.	3280.	4400.	0.	** 1320.	620.	.75	16.	100.7	F	12.1	5.4
15	3	540.	1112.	1296.	5012.	1112.	1235.	4392.	4776.	824.	** 540.	384.	.92	29.	50.2	F	13.0	3.3
16	2	1230.	0.	0.	3716.	0.	0.	3157.	4400.	0.	** 1230.	384.	.72	15.	105.8	F	15.6	5.7
17	2	890.	580.	0.	4296.	580.	0.	3737.	4396.	4.	** 890.	384.	.85	23.	81.8	F	18.6	4.1
18	3	4840.	212.	568.	4508.	212.	546.	3949.	5551.	49.	** 4840.	384.	.71	15.	89.9	F	13.0	5.8
19	2	530.	0.	0.	3940.	0.	0.	3403.	3800.	0.	** 530.	384.	.90	27.	63.7	F	19.7	3.6
20	2	1040.	680.	0.	4620.	680.	0.	4083.	4367.	33.	** 1040.	284.	.94	31.	66.2	F	20.8	3.2
21	3	2810.	908.	1044.	5528.	908.	943.	4991.	4991.	609.	0.	0.	1.00	52.	32.3	E	30.3	2.3
22	2	1850.	0.	0.	4484.	0.	0.	4049.	4400.	0.	0.	0.	.92	57.	35.6	E	18.8	2.8
23	3	2390.	536.	236.	5020.	536.	216.	4585.	5457.	143.	0.	0.	.84	62.	24.6	C	24.1	4.8
24	3	960.	0.	1860.	4784.	0.	1500.	4369.	5548.	52.	0.	0.	.79	62.	23.5	C	17.2	4.8
25	2	1400.	0.	2924.	2924.	0.	2670.	2670.	3600.	0.	0.	0.	.74	62.	21.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 23.	57.0		14.5	5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	442. VEH-HRS	501. PASS-HRS	2781. VEH-HRS	3148. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	203. VEH-HRS	230. PASS-HRS	1270. VEH-HRS	1438. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	646. VEH-HRS	731. PASS-HRS	4082. VEH-HRS	4621. PASS-HRS
TOTAL TRAV DISTANCE =	10191. VEH-MI.	11537. PASS-MI.	105306. VEH-MI.	119206. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		38. MPH.	
AVERAGE DENSITY =	57. VPMPL		37. VPMPL	
TOTAL FUEL =	779. GALLONS		7073. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		532. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	838.	203.41	77.04	1.18	7.28	1.27	9.73

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2616.	140.	2616.	2616.	140.	2616.	4400.	0.	0.	0.	.59	62.	21.1	C	13.6	4.8
2	2	1970.	0.	0.	2476.	0.	0.	2476.	4100.	0.	0.	0.	.60	62.	20.0	C	13.6	4.8
3	2	1830.	368.	300.	2844.	368.	300.	2844.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
4	2	2010.	0.	0.	2544.	0.	0.	2544.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
5	3	2445.	1140.	392.	3684.	1140.	392.	3411.	5369.	231.	* 83.	273.	.64	62.	18.4	F	13.6	4.8
6	2	1890.	0.	0.	3292.	0.	0.	3019.	4100.	0.	** 1890.	273.	.74	29.	52.4	F	12.7	4.7
7	3	5320.	592.	676.	3884.	592.	676.	3611.	5600.	0.	** 5320.	273.	.64	12.	100.2	F	10.2	6.4
8	2	880.	0.	0.	3208.	0.	0.	2935.	3900.	0.	** 880.	273.	.75	17.	88.2	F	12.2	5.3
9	2	1125.	152.	0.	3360.	152.	0.	3087.	3900.	0.	** 1125.	273.	.79	19.	82.0	F	17.2	4.8
10	3	6320.	396.	440.	3756.	396.	440.	3483.	5596.	4.	** 6320.	273.	.62	11.	104.2	F	13.2	6.6
11	2	2050.	0.	0.	3316.	0.	0.	3043.	4100.	0.	** 2050.	273.	.74	16.	94.4	F	16.0	5.5
12	3	2560.	624.	0.	3940.	624.	0.	3667.	5548.	52.	** 2560.	273.	.66	13.	97.5	F	12.1	6.3
13	3	1400.	0.	328.	3940.	0.	328.	3667.	5548.	52.	** 1400.	273.	.66	13.	97.5	F	20.7	6.3
14	2	1320.	0.	0.	3612.	0.	0.	3339.	4400.	0.	** 1320.	273.	.76	17.	98.4	F	12.2	5.3
15	3	540.	1028.	1396.	4640.	1028.	1396.	4367.	4880.	720.	** 540.	273.	.89	27.	54.7	F	12.6	3.6
16	2	1230.	0.	0.	3244.	0.	0.	2971.	4400.	0.	** 1230.	273.	.68	13.	113.4	F	14.3	6.2
17	2	890.	632.	0.	3876.	632.	0.	3603.	4398.	2.	** 890.	273.	.82	21.	87.5	F	17.9	4.5
18	3	4840.	172.	544.	4048.	172.	544.	3775.	5554.	46.	** 4840.	273.	.68	13.	94.7	F	12.4	6.1
19	2	530.	0.	0.	3504.	0.	0.	3231.	3800.	0.	** 530.	273.	.85	23.	70.8	F	18.6	4.1
20	2	1040.	768.	0.	4272.	768.	0.	3999.	4364.	36.	** 1040.	273.	.92	29.	69.5	F	20.3	3.4
21	3	2810.	936.	1140.	5208.	936.	1080.	4935.	4935.	665.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	4068.	0.	0.	3854.	4400.	0.	0.	0.	.88	59.	32.8	D	18.3	3.3
23	3	2390.	424.	176.	4492.	424.	168.	4278.	5491.	109.	0.	0.	.78	62.	23.0	C	24.1	4.8
24	3	960.	0.	1916.	4316.	0.	1500.	4111.	5561.	39.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2400.	2400.	0.	2286.	2286.	3600.	0.	0.	0.	.64	62.	18.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	58.8		14.3	5.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	457. VEH-HRS	517. PASS-HRS	3238. VEH-HRS	3665. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	220. VEH-HRS	249. PASS-HRS	1490. VEH-HRS	1687. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	677. VEH-HRS	766. PASS-HRS	4759. VEH-HRS	5387. PASS-HRS
TOTAL TRAV DISTANCE =	9855. VEH-MI.	11155. PASS-MI.	115161. VEH-MI.	130362. PASS-MI.
AVERAGE SYSTEM SPEED =	15. MPH.		36. MPH.	
AVERAGE DENSITY =	59. VPMPL		39. VPMPL	
TOTAL FUEL =	772. GALLONS		7844. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		593. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	920.	219.77	83.24	1.28	7.86	1.37	10.51

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2840.	176.	2840.	2840.	176.	2840.	4400.	0.	0.	0.	.65	62.	22.9	C	13.6	4.8
2	2	1970.	0.	0.	2664.	0.	0.	2664.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
3	2	1830.	356.	240.	3020.	356.	240.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	13.6	4.8
4	2	2010.	0.	0.	2780.	0.	0.	2780.	4100.	0.	0.	0.	.68	62.	22.4	C	13.6	4.8
5	3	2445.	912.	324.	3692.	912.	324.	3692.	5454.	146.	0.	0.	.68	61.	20.0	C	13.6	4.8
6	2	1890.	0.	0.	3368.	0.	0.	3455.	4100.	0.	* 912.	-87.	.84	26.	67.1	F	12.7	4.2
7	3	5320.	572.	704.	3940.	572.	704.	4027.	5600.	0.	** 5320.	-87.	.72	15.	89.5	F	11.2	5.7
8	2	880.	0.	0.	3236.	0.	0.	3323.	3900.	0.	** 880.	-87.	.85	23.	72.3	F	13.3	4.1
9	2	1125.	168.	0.	3404.	168.	0.	3491.	3900.	0.	** 1125.	-87.	.90	27.	65.4	F	19.7	3.6
10	3	6320.	396.	420.	3800.	396.	420.	3887.	5594.	6.	** 6320.	-87.	.69	14.	93.1	F	14.8	6.0
11	2	2050.	0.	0.	3380.	0.	0.	3467.	4100.	0.	** 2050.	-87.	.85	22.	77.1	F	18.5	4.2
12	3	2560.	588.	0.	3968.	588.	0.	4055.	5540.	60.	** 2560.	-87.	.73	16.	86.6	F	13.3	5.6
13	3	1400.	0.	396.	3968.	0.	396.	4055.	5540.	60.	** 1400.	-87.	.73	16.	86.6	F	25.2	5.6
14	2	1320.	0.	0.	3572.	0.	0.	3659.	4400.	0.	** 1320.	-87.	.83	21.	85.3	F	13.0	4.3
15	3	540.	932.	1296.	4504.	932.	1296.	4591.	4936.	664.	** 540.	-87.	.93	30.	50.5	F	13.2	3.2
16	2	1230.	0.	0.	3208.	0.	0.	3295.	4400.	0.	** 1230.	-87.	.75	16.	100.1	F	16.2	5.4
17	2	890.	560.	0.	3768.	560.	0.	3855.	4399.	1.	** 890.	-87.	.88	25.	77.2	F	19.3	3.8
18	3	4840.	184.	656.	3952.	184.	656.	4039.	5553.	47.	** 4840.	-87.	.73	15.	87.5	F	13.2	5.6
19	2	530.	0.	0.	3296.	0.	0.	3383.	3800.	0.	** 530.	-87.	.89	26.	64.5	F	19.6	3.6
20	2	1040.	748.	0.	4044.	748.	0.	4131.	4364.	36.	** 1040.	-87.	.95	32.	64.1	F	21.1	3.1
21	3	2810.	880.	1148.	4924.	880.	1168.	5011.	5011.	589.	0.	0.	1.00	52.	32.4	E	30.3	2.3
22	2	1850.	0.	0.	3776.	0.	0.	3843.	4400.	0.	0.	0.	.87	59.	32.6	D	18.3	3.4
23	3	2390.	312.	196.	4088.	312.	199.	4155.	5525.	75.	0.	0.	.75	62.	22.3	C	24.1	4.8
24	3	960.	0.	1720.	3892.	0.	1500.	3956.	5577.	23.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	2172.	2172.	0.	2208.	2208.	3600.	0.	0.	0.	.61	62.	17.8	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 25.	54.6		15.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	421. VEH-HRS	477. PASS-HRS	3659. VEH-HRS	4142. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	238. VEH-HRS	269. PASS-HRS	1728. VEH-HRS	1956. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	659. VEH-HRS	746. PASS-HRS	5418. VEH-HRS	6133. PASS-HRS
TOTAL TRAV DISTANCE =	10557. VEH-MI.	11951. PASS-MI.	125718. VEH-MI.	142313. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		34. MPH.	
AVERAGE DENSITY =	55. VPMPL		40. VPMPL	
TOTAL FUEL =	794. GALLONS		8638. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		655. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	982.	237.67	90.02	1.38	8.50	1.48	11.37

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3112.	144.	3112.	3112.	144.	3112.	4400.	0.	0.	0.	.71	62.	25.1	C	13.6	4.8
2	2	1970.	0.	0.	2968.	0.	0.	2968.	4100.	0.	0.	0.	.72	62.	23.9	C	13.6	4.8
3	2	1830.	304.	100.	3272.	304.	100.	3272.	4100.	0.	0.	0.	.80	61.	26.8	D	13.8	4.2
4	2	2010.	0.	0.	3172.	0.	0.	3172.	4100.	0.	0.	0.	.77	61.	25.8	C	13.7	4.5
5	3	2445.	684.	320.	3856.	684.	320.	3701.	5521.	79.	* 471.	155.	.67	52.	23.5	F	13.4	4.9
6	2	1890.	0.	0.	3536.	0.	0.	3381.	4100.	0.	** 1890.	155.	.82	23.	73.8	F	12.3	4.3
7	3	5320.	660.	744.	4196.	660.	744.	4041.	5600.	0.	** 5320.	155.	.72	15.	89.1	F	11.2	5.7
8	2	880.	0.	0.	3452.	0.	0.	3297.	3900.	0.	** 880.	155.	.85	22.	73.4	F	13.2	4.2
9	2	1125.	188.	0.	3640.	188.	0.	3485.	3900.	0.	** 1125.	155.	.89	27.	65.7	F	19.7	3.6
10	3	6320.	420.	352.	4060.	420.	352.	3905.	5594.	6.	** 6320.	155.	.70	14.	92.6	F	14.9	5.9
11	2	2050.	0.	0.	3708.	0.	0.	3553.	4100.	0.	** 2050.	155.	.87	24.	73.6	F	19.0	3.9
12	3	2560.	656.	0.	4364.	656.	0.	4209.	5536.	64.	** 2560.	155.	.76	17.	82.3	F	13.6	5.3
13	3	1400.	0.	420.	4364.	0.	420.	4209.	5536.	64.	** 1400.	155.	.76	17.	82.3	F	27.0	5.3
14	2	1320.	0.	0.	3944.	0.	0.	3789.	4400.	0.	** 1320.	155.	.86	24.	80.0	F	13.5	4.0
15	3	540.	816.	1204.	4760.	816.	1204.	4605.	4992.	608.	** 540.	155.	.92	29.	52.1	F	13.1	3.3
16	2	1230.	0.	0.	3556.	0.	0.	3401.	4400.	0.	** 1230.	155.	.77	18.	95.8	F	16.7	5.1
17	2	890.	496.	0.	4052.	496.	0.	3897.	4397.	3.	** 890.	155.	.89	26.	75.4	F	19.5	3.7
18	3	4840.	180.	628.	4232.	180.	628.	4077.	5557.	43.	** 4840.	155.	.73	16.	86.6	F	13.3	5.6
19	2	530.	0.	0.	3604.	0.	0.	3449.	3800.	0.	** 530.	155.	.91	28.	61.9	F	20.0	3.5
20	2	1040.	648.	0.	4252.	648.	0.	4097.	4367.	33.	** 1040.	155.	.94	31.	65.6	F	20.9	3.1
21	3	2810.	888.	1208.	5140.	888.	1171.	4985.	4985.	615.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3932.	0.	0.	3813.	4400.	0.	0.	0.	.87	59.	32.2	D	18.2	3.4
23	3	2390.	276.	140.	4208.	276.	136.	4089.	5529.	71.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1864.	4068.	0.	1500.	3953.	5579.	21.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	2204.	2204.	0.	2142.	2142.	3600.	0.	0.	0.	.59	62.	17.3	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 26.	54.9	15.0	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	422. VEH-HRS	478. PASS-HRS	4081. VEH-HRS	4620. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	255. VEH-HRS	289. PASS-HRS	1983. VEH-HRS	2244. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	678. VEH-HRS	767. PASS-HRS	6095. VEH-HRS	6900. PASS-HRS
TOTAL TRAV DISTANCE =	10877. VEH-MI.	12313. PASS-MI.	136595. VEH-MI.	154625. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		33. MPH.	
AVERAGE DENSITY =	55. VPMPL		41. VPMPL	
TOTAL FUEL =	820. GALLONS		9458. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		719. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1060.	255.16	96.64	1.48	9.13	1.59	12.21

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2980.	160.	2980.	2980.	160.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	13.6	4.8
2	2	1970.	0.	0.	2820.	0.	0.	2820.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
3	2	1830.	300.	108.	3120.	300.	108.	3120.	4100.	0.	0.	0.	.76	62.	25.3	C	13.7	4.5
4	2	2010.	0.	0.	3012.	0.	0.	3012.	4100.	0.	0.	0.	.73	62.	24.3	C	13.6	4.8
5	3	2445.	672.	268.	3684.	672.	268.	3404.	5556.	44.	* 1919.	280.	.61	19.	58.9	F	11.6	5.7
6	2	1890.	0.	0.	3416.	0.	0.	3136.	4100.	0.	** 1890.	280.	.76	17.	90.6	F	11.5	5.2
7	3	5320.	616.	768.	4032.	616.	768.	3752.	5600.	0.	** 5320.	280.	.67	13.	97.0	F	10.5	6.2
8	2	880.	0.	0.	3264.	0.	0.	2984.	3900.	0.	** 880.	280.	.77	17.	86.2	F	12.3	5.2
9	2	1125.	212.	0.	3476.	212.	0.	3196.	3900.	0.	** 1125.	280.	.82	21.	77.5	F	17.9	4.5
10	3	6320.	504.	280.	3980.	504.	280.	3700.	5595.	5.	** 6320.	280.	.66	13.	98.2	F	14.0	6.3
11	2	2050.	0.	0.	3700.	0.	0.	3420.	4100.	0.	** 2050.	280.	.83	22.	79.0	F	18.2	4.3
12	3	2560.	636.	0.	4336.	636.	0.	4056.	5548.	52.	** 2560.	280.	.73	16.	86.9	F	13.3	5.6
13	3	1400.	0.	364.	4336.	0.	364.	4056.	5548.	52.	** 1400.	280.	.73	16.	86.9	F	25.1	5.6
14	2	1320.	0.	0.	3972.	0.	0.	3692.	4400.	0.	** 1320.	280.	.84	22.	83.9	F	13.1	4.3
15	3	540.	836.	1304.	4808.	836.	1304.	4528.	4992.	608.	** 540.	280.	.91	28.	54.2	F	12.8	3.5
16	2	1230.	0.	0.	3504.	0.	0.	3224.	4400.	0.	** 1230.	280.	.73	16.	103.0	F	15.9	5.6
17	2	890.	508.	0.	4012.	508.	0.	3732.	4398.	2.	** 890.	280.	.85	23.	82.2	F	18.6	4.1
18	3	4840.	192.	540.	4204.	192.	540.	3924.	5559.	41.	** 4840.	280.	.71	14.	90.9	F	12.9	5.9
19	2	530.	0.	0.	3664.	0.	0.	3384.	3800.	0.	** 530.	280.	.89	26.	64.5	F	19.6	3.6
20	2	1040.	660.	0.	4324.	660.	0.	4044.	4364.	36.	** 1040.	280.	.93	30.	67.6	F	20.6	3.2
21	3	2810.	920.	1236.	5244.	920.	1170.	4964.	4964.	636.	0.	0.	1.00	52.	32.1	E	30.3	2.3
22	2	1850.	0.	0.	4008.	0.	0.	3794.	4400.	0.	0.	0.	.86	59.	32.0	D	18.2	3.5
23	3	2390.	312.	180.	4320.	312.	171.	4106.	5522.	78.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	1752.	4140.	0.	1500.	3935.	5574.	26.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2388.	2388.	0.	2270.	2270.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 23. 59.3 14.5 5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	458. VEH-HRS	519. PASS-HRS	4540. VEH-HRS	5139. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	270. VEH-HRS	306. PASS-HRS	2253. VEH-HRS	2550. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	728. VEH-HRS	825. PASS-HRS	6824. VEH-HRS	7724. PASS-HRS
TOTAL TRAV DISTANCE =	10432. VEH-MI.	11809. PASS-MI.	147027. VEH-MI.	166435. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		32. MPH.	
AVERAGE DENSITY =	59. VPMPL		42. VPMPL	
TOTAL FUEL =	820. GALLONS		10278. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		784. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1101.	270.05	102.28	1.57	9.66	1.69	12.92

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2760.	164.	2760.	2760.	164.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	13.6	4.8
2	2	1970.	0.	0.	2596.	0.	0.	2596.	4100.	0.	0.	0.	.63	62.	20.9	C	13.6	4.8
3	2	1830.	348.	112.	2944.	348.	112.	2944.	4100.	0.	0.	0.	.72	62.	23.7	C	13.6	4.8
4	2	2010.	0.	0.	2832.	0.	0.	2724.	4100.	0.	* 73.	108.	.66	62.	22.1	F	13.6	4.8
5	3	2445.	688.	428.	3520.	688.	428.	3412.	5462.	138.	** 2445.	108.	.62	12.	93.0	F	10.3	6.4
6	2	1890.	0.	0.	3092.	0.	0.	2984.	4100.	0.	** 1890.	108.	.73	15.	96.8	F	11.3	5.6
7	3	5320.	596.	592.	3688.	596.	592.	3580.	5600.	0.	** 5320.	108.	.64	12.	101.7	F	10.2	6.5
8	2	880.	0.	0.	3096.	0.	0.	2988.	3900.	0.	** 880.	108.	.77	17.	86.0	F	12.3	5.2
9	2	1125.	228.	0.	3324.	228.	0.	3216.	3900.	0.	** 1125.	108.	.82	21.	76.7	F	18.0	4.4
10	3	6320.	564.	252.	3888.	564.	252.	3780.	5595.	5.	** 6320.	108.	.68	13.	96.1	F	14.3	6.2
11	2	2050.	0.	0.	3636.	0.	0.	3528.	4100.	0.	** 2050.	108.	.86	24.	74.6	F	18.9	4.0
12	3	2560.	556.	0.	4192.	556.	0.	4084.	5540.	60.	** 2560.	108.	.74	16.	85.8	F	13.3	5.5
13	3	1400.	0.	440.	4192.	0.	440.	4084.	5540.	60.	** 1400.	108.	.74	16.	85.8	F	25.5	5.5
14	2	1320.	0.	0.	3752.	0.	0.	3644.	4400.	0.	** 1320.	108.	.83	21.	85.9	F	13.0	4.4
15	3	540.	860.	1368.	4612.	860.	1368.	4504.	4996.	604.	** 540.	108.	.90	27.	55.0	F	12.7	3.5
16	2	1230.	0.	0.	3244.	0.	0.	3136.	4400.	0.	** 1230.	108.	.71	15.	106.6	F	15.4	5.8
17	2	890.	552.	0.	3796.	552.	0.	3688.	4399.	1.	** 890.	108.	.84	22.	84.0	F	18.3	4.3
18	3	4840.	240.	624.	4036.	240.	624.	3928.	5557.	43.	** 4840.	108.	.71	14.	90.7	F	12.9	5.9
19	2	530.	0.	0.	3412.	0.	0.	3304.	3800.	0.	** 530.	108.	.87	24.	67.8	F	19.1	3.9
20	2	1040.	692.	0.	4104.	692.	0.	3996.	4364.	36.	** 1040.	108.	.92	29.	69.6	F	20.3	3.4
21	3	2810.	932.	1296.	5036.	932.	1268.	4928.	4928.	672.	0.	0.	1.00	52.	31.9	E	30.3	2.3
22	2	1850.	0.	0.	3740.	0.	0.	3660.	4400.	0.	0.	0.	.83	60.	30.4	D	17.9	3.8
23	3	2390.	276.	180.	4016.	276.	176.	3936.	5538.	62.	0.	0.	.71	62.	21.2	C	24.1	4.8
24	3	960.	0.	1700.	3836.	0.	1500.	3759.	5582.	18.	0.	0.	.67	62.	20.2	C	17.2	4.8
25	2	1400.	0.	2136.	2136.	0.	2093.	2093.	3600.	0.	0.	0.	.58	62.	16.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	60.2		14.5	5.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	468. VEH-HRS	529. PASS-HRS	5008. VEH-HRS	5669. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	280. VEH-HRS	317. PASS-HRS	2533. VEH-HRS	2868. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	748. VEH-HRS	847. PASS-HRS	7572. VEH-HRS	8571. PASS-HRS
TOTAL TRAV DISTANCE =	10145. VEH-MI.	11484. PASS-MI.	157172. VEH-MI.	177919. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		31. MPH.	
AVERAGE DENSITY =	60. VPMPL		44. VPMPL	
TOTAL FUEL =	808. GALLONS		11086. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		849. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1142.	280.40	106.20	1.63	10.03	1.75	13.42

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2332.	104.	2332.	2332.	104.	2332.	4400.	0.	0.	0.	.53	62.	18.8	C	13.6	4.8
2	2	1970.	0.	0.	2228.	0.	0.	2228.	4100.	0.	0.	0.	.54	62.	18.0	B	13.6	4.8
3	2	1830.	308.	124.	2536.	308.	124.	2536.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
4	2	2010.	0.	0.	2412.	0.	0.	2412.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
5	3	2445.	568.	484.	2980.	568.	484.	2980.	5502.	98.	0.	0.	.54	20.	49.7	F	11.7	5.6
6	2	1890.	0.	0.	2496.	0.	0.	3034.	4100.	0.	* 1329.	-538.	.74	16.	93.8	F	11.4	5.5
7	3	5320.	560.	540.	3056.	560.	540.	3594.	5600.	0.	** 5320.	-538.	.64	12.	101.3	F	10.2	6.4
8	2	880.	0.	0.	2516.	0.	0.	3054.	3900.	0.	** 880.	-538.	.78	18.	83.3	F	12.4	5.0
9	2	1125.	192.	0.	2708.	192.	0.	3246.	3900.	0.	** 1125.	-538.	.83	22.	75.5	F	18.2	4.3
10	3	6320.	500.	256.	3208.	500.	256.	3746.	5599.	1.	** 6320.	-538.	.67	13.	97.1	F	14.1	6.2
11	2	2050.	0.	0.	2952.	0.	0.	3490.	4100.	0.	** 2050.	-538.	.85	23.	76.2	F	18.6	4.1
12	3	2560.	560.	0.	3512.	560.	0.	4050.	5542.	58.	** 2560.	-538.	.73	16.	86.8	F	13.3	5.6
13	3	1400.	0.	400.	3512.	0.	400.	4050.	5542.	58.	** 1400.	-538.	.73	16.	86.8	F	25.1	5.6
14	2	1320.	0.	0.	3112.	0.	0.	3650.	4400.	0.	** 1320.	-538.	.83	21.	85.6	F	13.0	4.4
15	3	540.	904.	1256.	4016.	904.	1256.	4554.	4980.	620.	** 540.	-538.	.91	29.	53.1	F	12.9	3.4
16	2	1230.	0.	0.	2760.	0.	0.	3298.	4400.	0.	** 1230.	-538.	.75	16.	100.0	F	16.2	5.4
17	2	890.	648.	0.	3408.	648.	0.	3946.	4400.	0.	** 890.	-538.	.90	27.	73.5	F	19.8	3.6
18	3	4840.	276.	664.	3684.	276.	664.	4222.	5566.	34.	** 4840.	-538.	.76	17.	83.0	F	13.5	5.3
19	2	530.	0.	0.	3020.	0.	0.	3558.	3800.	0.	** 530.	-538.	.94	31.	57.4	F	20.8	3.2
20	2	1040.	604.	0.	3624.	604.	0.	4162.	4376.	24.	** 1040.	-538.	.95	33.	63.4	F	21.2	3.0
21	3	2810.	888.	1200.	4512.	888.	1343.	5050.	5050.	550.	0.	0.	1.00	52.	32.7	E	30.3	2.3
22	2	1850.	0.	0.	3312.	0.	0.	3707.	4400.	0.	0.	0.	.84	60.	30.9	D	18.0	3.6
23	3	2390.	308.	176.	3620.	308.	195.	4015.	5543.	57.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	1556.	3444.	0.	1500.	3820.	5589.	11.	0.	0.	.68	62.	20.5	C	17.2	4.8
25	2	1400.	0.	1888.	1888.	0.	2094.	2094.	3600.	0.	0.	0.	.58	62.	16.9	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	56.6		14.7	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	441. VEH-HRS	499. PASS-HRS	5449. VEH-HRS	6168. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	293. VEH-HRS	331. PASS-HRS	2826. VEH-HRS	3199. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	734. VEH-HRS	830. PASS-HRS	8305. VEH-HRS	9402. PASS-HRS
TOTAL TRAV DISTANCE =	9878. VEH-MI.	11182. PASS-MI.	167050. VEH-MI.	189101. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		31. MPH.	
AVERAGE DENSITY =	57. VPMPL		44. VPMPL	
TOTAL FUEL =	782. GALLONS		11868. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		911. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1199.	292.65	110.84	1.70	10.47	1.83	14.00

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2240.	80.	2240.	2240.	80.	2240.	4400.	0.	0.	0.	.51	62.	18.1	C	13.6	4.8
2	2	1970.	0.	0.	2160.	0.	0.	2160.	4100.	0.	0.	0.	.53	62.	17.4	B	13.6	4.8
3	2	1830.	332.	140.	2492.	332.	140.	2492.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
4	2	2010.	0.	0.	2352.	0.	0.	2352.	4100.	0.	0.	0.	.57	62.	19.0	C	13.6	4.8
5	3	2445.	452.	352.	2804.	452.	352.	2804.	5600.	0.	0.	0.	.50	62.	15.1	B	13.6	4.8
6	2	1890.	0.	0.	2452.	0.	0.	2452.	4100.	0.	0.	0.	.60	38.	32.5	D	13.0	5.0
7	3	5320.	576.	496.	3028.	576.	496.	3396.	5600.	0.	* 4350.	-368.	.61	11.	102.8	F	10.0	6.6
8	2	880.	0.	0.	2532.	0.	0.	2900.	3900.	0.	** 880.	-368.	.74	16.	89.6	F	12.1	5.5
9	2	1125.	192.	0.	2724.	192.	0.	3092.	3900.	0.	** 1125.	-368.	.79	19.	81.8	F	17.3	4.8
10	3	6320.	552.	304.	3276.	552.	304.	3644.	5600.	0.	** 6320.	-368.	.65	12.	99.9	F	13.7	6.4
11	2	2050.	0.	0.	2972.	0.	0.	3340.	4100.	0.	** 2050.	-368.	.81	20.	82.3	F	17.9	4.5
12	3	2560.	540.	0.	3512.	540.	0.	3880.	5546.	54.	** 2560.	-368.	.70	14.	91.6	F	12.7	5.9
13	3	1400.	0.	388.	3512.	0.	388.	3880.	5546.	54.	** 1400.	-368.	.70	14.	91.6	F	23.0	5.9
14	2	1320.	0.	0.	3124.	0.	0.	3492.	4400.	0.	** 1320.	-368.	.79	19.	92.1	F	12.6	4.8
15	3	540.	880.	1124.	4004.	880.	1124.	4372.	4968.	632.	** 540.	-368.	.88	25.	57.6	F	12.4	3.7
16	2	1230.	0.	0.	2880.	0.	0.	3248.	4400.	0.	** 1230.	-368.	.74	16.	102.1	F	16.0	5.5
17	2	890.	664.	0.	3544.	664.	0.	3912.	4400.	0.	** 890.	-368.	.89	26.	74.9	F	19.6	3.7
18	3	4840.	244.	604.	3788.	244.	604.	4156.	5560.	40.	** 4840.	-368.	.75	16.	84.6	F	13.4	5.4
19	2	530.	0.	0.	3184.	0.	0.	3552.	3800.	0.	** 530.	-368.	.93	31.	57.6	F	20.8	3.2
20	2	1040.	716.	0.	3900.	716.	0.	4268.	4368.	32.	** 1040.	-368.	.98	36.	58.7	F	21.8	2.8
21	3	2810.	820.	1176.	4720.	820.	1268.	5088.	5088.	512.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	3544.	0.	0.	3820.	4400.	0.	0.	0.	.87	59.	32.3	D	18.2	3.4
23	3	2390.	276.	120.	3820.	276.	129.	4096.	5543.	57.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1816.	3700.	0.	1500.	3968.	5587.	13.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	1884.	1884.	0.	2020.	2020.	3600.	0.	0.	0.	.56	62.	16.3	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	54.6		14.7	5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	427. VEH-HRS	483. PASS-HRS	5875. VEH-HRS	6651. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	314. VEH-HRS	355. PASS-HRS	3140. VEH-HRS	3554. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	740. VEH-HRS	838. PASS-HRS	9046. VEH-HRS	10240. PASS-HRS
TOTAL TRAV DISTANCE =	9562. VEH-MI.	10825. PASS-MI.	176613. VEH-MI.	199925. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		30. MPH.	
AVERAGE DENSITY =	55. VPMPL		45. VPMPL	
TOTAL FUEL =	767. GALLONS		12636. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		974. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1311.	313.68	118.81	1.82	11.22	1.96	15.01

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2024.	88.	2024.	2024.	88.	2024.	4400.	0.	0.	0.	.46	62.	16.3	B	13.6	4.8
2	2	1970.	0.	0.	1936.	0.	0.	1936.	4100.	0.	0.	0.	.47	62.	15.6	B	13.6	4.8
3	2	1830.	340.	56.	2276.	340.	56.	2276.	4100.	0.	0.	0.	.56	62.	18.4	C	13.6	4.8
4	2	2010.	0.	0.	2220.	0.	0.	2220.	4100.	0.	0.	0.	.54	62.	17.9	B	13.6	4.8
5	3	2445.	632.	328.	2852.	632.	328.	2852.	5574.	26.	0.	0.	.51	62.	15.3	B	13.6	4.8
6	2	1890.	0.	0.	2524.	0.	0.	2524.	4100.	0.	0.	0.	.62	62.	20.4	C	13.6	4.8
7	3	5320.	536.	616.	3060.	536.	616.	3453.	5600.	0.	* 2402.	-393.	.62	15.	75.9	F	10.9	6.0
8	2	880.	0.	0.	2444.	0.	0.	2837.	3900.	0.	** 880.	-393.	.73	15.	92.2	F	12.0	5.6
9	2	1125.	192.	0.	2636.	192.	0.	3029.	3900.	0.	** 1125.	-393.	.78	18.	84.3	F	16.8	5.0
10	3	6320.	596.	296.	3232.	596.	296.	3625.	5600.	0.	** 6320.	-393.	.65	12.	100.5	F	13.7	6.4
11	2	2050.	0.	0.	2936.	0.	0.	3329.	4100.	0.	** 2050.	-393.	.81	20.	82.8	F	17.8	4.6
12	3	2560.	560.	0.	3496.	560.	0.	3889.	5542.	58.	** 2560.	-393.	.70	14.	91.2	F	12.8	5.9
13	3	1400.	0.	396.	3496.	0.	396.	3889.	5542.	58.	** 1400.	-393.	.70	14.	91.2	F	23.1	5.9
14	2	1320.	0.	0.	3100.	0.	0.	3493.	4400.	0.	** 1320.	-393.	.79	19.	92.1	F	12.6	4.8
15	3	540.	792.	1000.	3892.	792.	1000.	4285.	5012.	588.	** 540.	-393.	.85	23.	61.6	F	12.0	4.1
16	2	1230.	0.	0.	2892.	0.	0.	3285.	4400.	0.	** 1230.	-393.	.75	16.	100.6	F	16.1	5.4
17	2	890.	660.	0.	3552.	660.	0.	3945.	4400.	0.	** 890.	-393.	.90	27.	73.6	F	19.8	3.6
18	3	4840.	244.	624.	3796.	244.	624.	4189.	5559.	41.	** 4840.	-393.	.75	17.	83.6	F	13.5	5.3
19	2	530.	0.	0.	3172.	0.	0.	3565.	3800.	0.	** 530.	-393.	.94	31.	57.1	F	20.9	3.1
20	2	1040.	684.	0.	3856.	684.	0.	4249.	4370.	30.	** 1040.	-393.	.97	36.	59.6	F	21.7	2.8
21	3	2810.	836.	1104.	4692.	836.	1196.	5085.	5085.	515.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	3588.	0.	0.	3888.	4400.	0.	0.	0.	.88	59.	33.2	D	18.4	3.3
23	3	2390.	292.	120.	3880.	292.	129.	4180.	5537.	63.	0.	0.	.75	62.	22.5	C	24.1	4.8
24	3	960.	0.	1780.	3760.	0.	1500.	4051.	5582.	18.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	1980.	1980.	0.	2133.	2133.	3600.	0.	0.	0.	.59	62.	17.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 23.	51.6	15.0	4.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	400. VEH-HRS	453. PASS-HRS	6275. VEH-HRS	7103. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	341. VEH-HRS	386. PASS-HRS	3480. VEH-HRS	3940. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	741. VEH-HRS	838. PASS-HRS	9786. VEH-HRS	11078. PASS-HRS
TOTAL TRAV DISTANCE =	9391. VEH-MI.	10631. PASS-MI.	186004. VEH-MI.	210556. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		30. MPH.	
AVERAGE DENSITY =	52. VPMPL		45. VPMPL	
TOTAL FUEL =	756. GALLONS		13392. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		1037. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1415.	340.72	129.05	1.98	12.19	2.13	16.30

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2132.	104.	2132.	2132.	104.	2132.	4400.	0.	0.	0.	.48	62.	17.2	B	13.6	4.8
2	2	1970.	0.	0.	2028.	0.	0.	2028.	4100.	0.	0.	0.	.49	62.	16.4	B	13.6	4.8
3	2	1830.	412.	72.	2440.	412.	72.	2440.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
4	2	2010.	0.	0.	2368.	0.	0.	2368.	4100.	0.	0.	0.	.58	62.	19.1	C	13.6	4.8
5	3	2445.	524.	308.	2892.	524.	308.	2892.	5600.	0.	0.	0.	.52	62.	15.5	B	13.6	4.8
6	2	1890.	0.	0.	2584.	0.	0.	2584.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
7	3	5320.	608.	676.	3192.	608.	676.	3616.	5600.	0.	* 171.	-424.	.65	29.	41.0	F	12.5	5.2
8	2	880.	0.	0.	2516.	0.	0.	2940.	3900.	0.	** 880.	-424.	.75	17.	88.0	F	12.2	5.3
9	2	1125.	200.	0.	2716.	200.	0.	3140.	3900.	0.	** 1125.	-424.	.81	20.	79.8	F	17.6	4.7
10	3	6320.	504.	324.	3220.	504.	324.	3644.	5600.	0.	** 6320.	-424.	.65	12.	99.9	F	13.7	6.4
11	2	2050.	0.	0.	2896.	0.	0.	3320.	4100.	0.	** 2050.	-424.	.81	20.	83.1	F	17.8	4.6
12	3	2560.	728.	0.	3624.	728.	0.	4048.	5528.	72.	** 2560.	-424.	.73	16.	86.4	F	13.3	5.6
13	3	1400.	0.	396.	3624.	0.	396.	4048.	5528.	72.	** 1400.	-424.	.73	16.	86.4	F	25.2	5.6
14	2	1320.	0.	0.	3228.	0.	0.	3652.	4400.	0.	** 1320.	-424.	.83	21.	85.6	F	13.0	4.4
15	3	540.	768.	1208.	3996.	768.	1208.	4420.	5064.	536.	** 540.	-424.	.87	25.	59.8	F	12.3	3.8
16	2	1230.	0.	0.	2788.	0.	0.	3212.	4400.	0.	** 1230.	-424.	.73	16.	103.5	F	15.8	5.6
17	2	890.	660.	0.	3448.	660.	0.	3872.	4400.	0.	** 890.	-424.	.88	25.	76.6	F	19.4	3.7
18	3	4840.	264.	668.	3712.	264.	668.	4136.	5559.	41.	** 4840.	-424.	.74	16.	85.1	F	13.4	5.4
19	2	530.	0.	0.	3044.	0.	0.	3468.	3800.	0.	** 530.	-424.	.91	28.	61.1	F	20.2	3.4
20	2	1040.	660.	0.	3704.	660.	0.	4128.	4373.	27.	** 1040.	-424.	.94	32.	64.7	F	21.0	3.1
21	3	2810.	904.	1184.	4608.	904.	1293.	5032.	5032.	568.	0.	0.	1.00	52.	32.5	E	30.3	2.3
22	2	1850.	0.	0.	3424.	0.	0.	3739.	4400.	0.	0.	0.	.85	60.	31.3	D	18.0	3.6
23	3	2390.	264.	160.	3688.	264.	174.	4003.	5548.	52.	0.	0.	.72	62.	21.5	C	24.1	4.8
24	3	960.	0.	1552.	3528.	0.	1500.	3829.	5587.	13.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	1976.	1976.	0.	2145.	2145.	3600.	0.	0.	0.	.60	62.	17.3	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 26.		48.5	15.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	371. VEH-HRS	420. PASS-HRS	6646. VEH-HRS	7524. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	360. VEH-HRS	407. PASS-HRS	3840. VEH-HRS	4347. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	731. VEH-HRS	827. PASS-HRS	10517. VEH-HRS	11905. PASS-HRS
TOTAL TRAV DISTANCE =	9481. VEH-MI.	10732. PASS-MI.	195484. VEH-MI.	221288. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		29. MPH.	
AVERAGE DENSITY =	49. VPMPL		46. VPMPL	
TOTAL FUEL =	759. GALLONS		14151. GALLONS	
TOTAL EMISSIONS =	63. KILOGRAMS		1100. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1461.	359.53	136.17	2.09	12.86	2.25	17.20

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1660.	84.	1660.	1660.	84.	1660.	4400.	0.	0.	0.	.38	62.	13.4	B	13.6	4.8
2	2	1970.	0.	0.	1576.	0.	0.	1576.	4100.	0.	0.	0.	.38	62.	12.7	B	13.6	4.8
3	2	1830.	380.	64.	1956.	380.	64.	1956.	4100.	0.	0.	0.	.48	62.	15.8	B	13.6	4.8
4	2	2010.	0.	0.	1892.	0.	0.	1892.	4100.	0.	0.	0.	.46	62.	15.3	B	13.6	4.8
5	3	2445.	528.	296.	2420.	528.	296.	2420.	5600.	0.	0.	0.	.43	62.	13.0	B	13.6	4.8
6	2	1890.	0.	0.	2124.	0.	0.	2124.	4100.	0.	0.	0.	.52	62.	17.1	B	13.6	4.8
7	3	5320.	644.	552.	2768.	644.	552.	2768.	5600.	0.	0.	0.	.49	62.	15.0	B	13.6	4.8
8	2	880.	0.	0.	2216.	0.	0.	2216.	3900.	0.	0.	0.	.57	41.	26.9	D	14.3	4.9
9	2	1125.	232.	0.	2448.	232.	0.	2448.	3900.	0.	0.	0.	.63	34.	35.8	E	18.9	4.8
10	3	6320.	604.	316.	3052.	604.	316.	3679.	5600.	0.	* 4268.	-627.	.66	13.	92.3	F	14.2	6.2
11	2	2050.	0.	0.	2736.	0.	0.	3363.	4100.	0.	** 2050.	-627.	.82	21.	81.4	F	18.0	4.5
12	3	2560.	916.	0.	3652.	916.	0.	4279.	5518.	82.	** 2560.	-627.	.78	18.	79.8	F	13.7	5.1
13	3	1400.	0.	380.	3652.	0.	380.	4279.	5518.	82.	** 1400.	-627.	.78	18.	79.8	F	28.2	5.1
14	2	1320.	0.	0.	3272.	0.	0.	3899.	4400.	0.	** 1320.	-627.	.89	26.	75.5	F	13.9	3.7
15	3	540.	772.	1192.	4044.	772.	1192.	4671.	5056.	544.	** 540.	-627.	.92	30.	52.6	F	13.1	3.3
16	2	1230.	0.	0.	2852.	0.	0.	3479.	4400.	0.	** 1230.	-627.	.79	19.	92.6	F	17.2	4.9
17	2	890.	644.	0.	3496.	644.	0.	4123.	4400.	0.	** 890.	-627.	.94	31.	66.3	F	20.8	3.1
18	3	4840.	276.	624.	3772.	276.	624.	4399.	5559.	41.	** 4840.	-627.	.79	19.	77.9	F	13.9	4.9
19	2	530.	0.	0.	3148.	0.	0.	3775.	3800.	0.	** 530.	-627.	.99	39.	48.5	F	22.1	2.6
20	2	1040.	536.	0.	3684.	536.	0.	4311.	4379.	21.	** 1040.	-627.	.98	37.	57.5	F	21.9	2.7
21	3	2810.	852.	1016.	4536.	852.	1156.	5163.	5163.	437.	0.	0.	1.00	52.	33.4	E	30.3	2.3
22	2	1850.	0.	0.	3520.	0.	0.	4006.	4400.	0.	0.	0.	.91	57.	34.9	D	18.7	3.0
23	3	2390.	296.	148.	3816.	296.	167.	4302.	5538.	62.	0.	0.	.78	62.	23.1	C	24.1	4.8
24	3	960.	0.	1388.	3668.	0.	1500.	4135.	5580.	20.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2280.	2280.	0.	2570.	2570.	3600.	0.	0.	0.	.71	62.	20.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 29.		40.9	16.0	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	316. VEH-HRS	358. PASS-HRS	6963. VEH-HRS	7882. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	367. VEH-HRS	416. PASS-HRS	4207. VEH-HRS	4762. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	684. VEH-HRS	774. PASS-HRS	11201. VEH-HRS	12679. PASS-HRS
TOTAL TRAV DISTANCE =	9062. VEH-MI.	10259. PASS-MI.	204547. VEH-MI.	231547. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		29. MPH.	
AVERAGE DENSITY =	41. VPMPL		45. VPMPL	
TOTAL FUEL =	707. GALLONS		14858. GALLONS	
TOTAL EMISSIONS =	59. KILOGRAMS		1159. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1477.	367.31	139.12	2.14	13.14	2.29	17.57

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2464.	64.	2464.	2464.	64.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
2	2	1970.	0.	0.	2400.	0.	0.	2400.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
3	2	1830.	400.	92.	2800.	400.	92.	2800.	4100.	0.	0.	0.	.68	62.	22.6	C	13.6	4.8
4	2	2010.	0.	0.	2708.	0.	0.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	13.6	4.8
5	3	2445.	536.	380.	3244.	536.	380.	3244.	5584.	16.	0.	0.	.58	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	2864.	0.	0.	2864.	4100.	0.	0.	0.	.70	62.	23.1	C	13.6	4.8
7	3	5320.	616.	560.	3480.	616.	560.	3480.	5600.	0.	0.	0.	.62	62.	18.7	C	13.6	4.8
8	2	880.	0.	0.	2920.	0.	0.	2920.	3900.	0.	0.	0.	.75	62.	23.5	C	14.9	4.8
9	2	1125.	228.	0.	3148.	228.	0.	3148.	3900.	0.	0.	0.	.81	61.	25.9	C	20.5	4.1
10	3	6320.	568.	268.	3716.	568.	268.	3583.	5597.	3.	* 4986.	133.	.64	15.	78.9	F	14.8	6.0
11	2	2050.	0.	0.	3448.	0.	0.	3315.	4100.	0.	** 2050.	133.	.81	20.	83.3	F	17.7	4.6
12	3	2560.	796.	0.	4244.	796.	0.	4111.	5520.	80.	** 2560.	133.	.74	16.	84.4	F	13.4	5.4
13	3	1400.	0.	424.	4244.	0.	424.	4111.	5520.	80.	** 1400.	133.	.74	16.	84.4	F	26.0	5.4
14	2	1320.	0.	0.	3820.	0.	0.	3687.	4400.	0.	** 1320.	133.	.84	22.	84.1	F	13.1	4.3
15	3	540.	848.	1204.	4668.	848.	1204.	4535.	4972.	628.	** 540.	133.	.91	28.	53.3	F	12.9	3.4
16	2	1230.	0.	0.	3464.	0.	0.	3331.	4400.	0.	** 1230.	133.	.76	17.	98.7	F	16.4	5.3
17	2	890.	720.	0.	4184.	720.	0.	4051.	4396.	4.	** 890.	133.	.92	29.	69.1	F	20.4	3.3
18	3	4840.	264.	712.	4448.	264.	712.	4315.	5531.	69.	** 4840.	133.	.78	18.	79.2	F	13.8	5.0
19	2	530.	0.	0.	3736.	0.	0.	3603.	3800.	0.	** 530.	133.	.95	32.	55.5	F	21.1	3.0
20	2	1040.	560.	0.	4296.	560.	0.	4163.	4373.	27.	** 1040.	133.	.95	33.	63.3	F	21.2	3.0
21	3	2810.	892.	1068.	5188.	892.	1041.	5055.	5055.	545.	0.	0.	1.00	52.	32.7	E	30.3	2.3
22	2	1850.	0.	0.	4120.	0.	0.	4014.	4400.	0.	0.	0.	.91	57.	35.1	E	18.7	2.9
23	3	2390.	272.	128.	4392.	272.	125.	4286.	5532.	68.	0.	0.	.77	62.	23.0	C	24.1	4.8
24	3	960.	0.	1592.	4264.	0.	1500.	4162.	5576.	24.	0.	0.	.75	62.	22.4	C	17.2	4.8
25	2	1400.	0.	2672.	2672.	0.	2608.	2608.	3600.	0.	0.	0.	.72	62.	21.0	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 31. 42.9 15.6 4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	328. VEH-HRS	372. PASS-HRS	7291. VEH-HRS	8253. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	371. VEH-HRS	420. PASS-HRS	4578. VEH-HRS	5182. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	699. VEH-HRS	792. PASS-HRS	11900. VEH-HRS	13471. PASS-HRS
TOTAL TRAV DISTANCE =	10069. VEH-MI.	11398. PASS-MI.	214616. VEH-MI.	242945. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		29. MPH.	
AVERAGE DENSITY =	43. VPMPL		45. VPMPL	
TOTAL FUEL =	784. GALLONS		15642. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1223. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1491.	371.02	140.52	2.16	13.28	2.32	17.75

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2264.	48.	2264.	2264.	48.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	13.6	4.8
2	2	1970.	0.	0.	2216.	0.	0.	2216.	4100.	0.	0.	0.	.54	62.	17.9	B	13.6	4.8
3	2	1830.	476.	64.	2692.	476.	64.	2692.	4100.	0.	0.	0.	.66	62.	21.7	C	13.6	4.8
4	2	2010.	0.	0.	2628.	0.	0.	2628.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
5	3	2445.	612.	344.	3240.	612.	344.	3240.	5558.	42.	0.	0.	.58	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	2896.	0.	0.	2896.	4100.	0.	0.	0.	.71	62.	23.4	C	13.6	4.8
7	3	5320.	580.	488.	3476.	580.	488.	3476.	5600.	0.	0.	0.	.62	62.	18.7	C	13.6	4.8
8	2	880.	0.	0.	2988.	0.	0.	2988.	3900.	0.	0.	0.	.77	62.	24.1	C	14.9	4.8
9	2	1125.	212.	0.	3200.	212.	0.	2930.	3900.	0.	* 135.	270.	.75	60.	24.4	F	20.6	4.0
10	3	6320.	528.	288.	3728.	528.	288.	3458.	5596.	4.	** 6320.	270.	.62	12.	95.6	F	13.6	6.4
11	2	2050.	0.	0.	3440.	0.	0.	3170.	4100.	0.	** 2050.	270.	.77	18.	89.2	F	16.7	5.1
12	3	2560.	624.	0.	4064.	624.	0.	3794.	5540.	60.	** 2560.	270.	.68	13.	93.7	F	12.5	6.1
13	3	1400.	0.	400.	4064.	0.	400.	3794.	5540.	60.	** 1400.	270.	.68	13.	93.7	F	22.0	6.1
14	2	1320.	0.	0.	3664.	0.	0.	3394.	4400.	0.	** 1320.	270.	.77	18.	96.1	F	12.3	5.1
15	3	540.	880.	1156.	4544.	880.	1156.	4274.	4944.	656.	** 540.	270.	.86	24.	59.4	F	12.2	3.9
16	2	1230.	0.	0.	3388.	0.	0.	3118.	4400.	0.	** 1230.	270.	.71	15.	107.4	F	15.3	5.8
17	2	890.	712.	0.	4100.	712.	0.	3830.	4397.	3.	** 890.	270.	.87	25.	78.1	F	19.1	3.9
18	3	4840.	280.	552.	4380.	280.	552.	4110.	5548.	52.	** 4840.	270.	.74	16.	85.4	F	13.4	5.5
19	2	530.	0.	0.	3828.	0.	0.	3558.	3800.	0.	** 530.	242.	.94	31.	57.4	F	20.8	3.2
20	2	1040.	556.	0.	4384.	556.	0.	4114.	4372.	28.	** 1040.	242.	.94	32.	65.2	F	20.9	3.1
21	3	2810.	900.	1088.	5284.	900.	1032.	5014.	5014.	586.	0.	0.	1.00	52.	32.4	E	30.3	2.3
22	2	1850.	0.	0.	4196.	0.	0.	3982.	4400.	0.	0.	0.	.90	58.	34.6	D	18.6	3.0
23	3	2390.	296.	132.	4492.	296.	126.	4278.	5534.	66.	0.	0.	.77	62.	23.0	C	24.1	4.8
24	3	960.	0.	1412.	4360.	0.	1500.	4152.	5576.	24.	0.	0.	.74	62.	22.3	C	17.2	4.8
25	2	1400.	0.	2948.	2948.	0.	2808.	2808.	3600.	0.	0.	0.	.78	62.	22.6	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 27. 46.1 15.3 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	356. VEH-HRS	403. PASS-HRS	7647. VEH-HRS	8656. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	368. VEH-HRS	416. PASS-HRS	4946. VEH-HRS	5599. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	723. VEH-HRS	819. PASS-HRS	12624. VEH-HRS	14290. PASS-HRS
TOTAL TRAV DISTANCE =	9713. VEH-MI.	10995. PASS-MI.	224329. VEH-MI.	253940. PASS-MI.
AVERAGE SYSTEM SPEED =	13. MPH.		29. MPH.	
AVERAGE DENSITY =	46. VPMPL		45. VPMPL	
TOTAL FUEL =	776. GALLONS		16418. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1288. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1452.	367.84	139.32	2.14	13.16	2.30	17.60

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2232.	56.	2232.	2232.	56.	2232.	4400.	0.	0.	0.	.51	62.	18.0	B	13.6	4.8
2	2	1970.	0.	0.	2176.	0.	0.	2176.	4100.	0.	0.	0.	.53	62.	17.5	B	13.6	4.8
3	2	1830.	580.	132.	2756.	580.	132.	2756.	4084.	16.	0.	0.	.67	62.	22.2	C	13.6	4.8
4	2	2010.	0.	0.	2624.	0.	0.	2624.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
5	3	2445.	616.	400.	3240.	616.	400.	3240.	5535.	65.	0.	0.	.59	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	2840.	0.	0.	2840.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
7	3	5320.	628.	524.	3468.	628.	524.	3468.	5600.	0.	0.	0.	.62	62.	18.6	C	13.6	4.8
8	2	880.	0.	0.	2944.	0.	0.	2944.	3900.	0.	0.	0.	.75	62.	23.7	C	14.9	4.8
9	2	1125.	200.	0.	3144.	200.	0.	3084.	3900.	0.	* 839.	60.	.79	31.	49.6	F	18.9	4.4
10	3	6320.	584.	328.	3728.	584.	328.	3668.	5597.	3.	** 6320.	60.	.66	12.	99.2	F	13.8	6.3
11	2	2050.	0.	0.	3400.	0.	0.	3340.	4100.	0.	** 2050.	60.	.81	20.	82.3	F	17.9	4.5
12	3	2560.	612.	0.	4012.	612.	0.	3952.	5532.	68.	** 2560.	60.	.71	15.	89.1	F	13.1	5.8
13	3	1400.	0.	452.	4012.	0.	452.	3952.	5532.	68.	** 1400.	60.	.71	15.	89.1	F	24.1	5.8
14	2	1320.	0.	0.	3560.	0.	0.	3500.	4400.	0.	** 1320.	60.	.80	19.	91.8	F	12.6	4.8
15	3	540.	852.	1200.	4412.	852.	1200.	4352.	4980.	620.	** 540.	60.	.87	25.	58.6	F	12.3	3.8
16	2	1230.	0.	0.	3212.	0.	0.	3152.	4400.	0.	** 1230.	60.	.72	15.	106.0	F	15.5	5.8
17	2	890.	704.	0.	3916.	704.	0.	3856.	4398.	2.	** 890.	60.	.88	25.	77.1	F	19.3	3.8
18	3	4840.	280.	644.	4196.	280.	644.	4136.	5545.	55.	** 4840.	60.	.75	16.	84.6	F	13.4	5.4
19	2	530.	0.	0.	3552.	0.	0.	3492.	3800.	0.	** 530.	60.	.92	29.	60.1	F	20.4	3.3
20	2	1040.	580.	0.	4132.	580.	0.	4072.	4370.	30.	** 1040.	60.	.93	30.	66.8	F	20.7	3.2
21	3	2810.	912.	1216.	5044.	912.	1202.	4984.	4984.	616.	0.	0.	1.00	52.	32.2	E	30.3	2.3
22	2	1850.	0.	0.	3828.	0.	0.	3782.	4400.	0.	0.	0.	.86	59.	31.8	D	18.1	3.5
23	3	2390.	252.	176.	4080.	252.	174.	4034.	5541.	59.	0.	0.	.73	62.	21.7	C	24.1	4.8
24	3	960.	0.	1480.	3904.	0.	1500.	3860.	5580.	20.	0.	0.	.69	62.	20.8	C	17.2	4.8
25	2	1400.	0.	2424.	2424.	0.	2397.	2397.	3600.	0.	0.	0.	.67	62.	19.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 27.	45.9		15.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	354. VEH-HRS	400. PASS-HRS	8000. VEH-HRS	9056. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	31. VEH-HRS	35. PASS-HRS
OFF-RAMP DELAY =	362. VEH-HRS	410. PASS-HRS	5308. VEH-HRS	6008. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	715. VEH-HRS	810. PASS-HRS	13339. VEH-HRS	15100. PASS-HRS
TOTAL TRAV DISTANCE =	9706. VEH-MI.	10988. PASS-MI.	234035. VEH-MI.	264928. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		29. MPH.	
AVERAGE DENSITY =	46. VPMPL		45. VPMPL	
TOTAL FUEL =	770. GALLONS		17188. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		1352. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	1443.	361.84	137.05	2.11	12.95	2.26	17.31

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	136.	154.	15.	17.	151.	171.	8451.	9567.	55.9	515.	2.	28.	11.	6:00
2	168.	191.	44.	49.	212.	240.	10316.	11677.	48.7	635.	2.	33.	13.	6:15
3	217.	246.	73.	83.	290.	329.	11846.	13410.	40.8	736.	2.	34.	14.	6:30
4	261.	295.	108.	122.	369.	417.	11735.	13285.	31.8	757.	3.	35.	14.	6:45
5	267.	302.	146.	165.	412.	467.	10313.	11674.	25.0	694.	3.	37.	13.	7:00
6	253.	286.	172.	195.	425.	481.	10616.	12017.	25.0	697.	3.	37.	13.	7:15
7	303.	343.	174.	197.	477.	540.	11098.	12563.	23.3	761.	4.	40.	14.	7:30
8	347.	393.	176.	200.	524.	593.	10394.	11767.	19.9	739.	4.	40.	13.	7:45
9	387.	438.	190.	215.	577.	653.	10346.	11711.	17.9	761.	4.	42.	13.	8:00
10	442.	501.	203.	230.	646.	731.	10191.	11537.	15.8	779.	5.	44.	13.	8:15
11	457.	517.	220.	249.	677.	766.	9855.	11155.	14.6	772.	5.	44.	12.	8:30
12	421.	477.	238.	269.	659.	746.	10557.	11951.	16.0	794.	5.	44.	13.	8:45
13	422.	478.	255.	289.	678.	767.	10877.	12313.	16.1	820.	5.	45.	13.	9:00
14	458.	519.	270.	306.	728.	825.	10432.	11809.	14.3	820.	5.	47.	13.	9:15
15	468.	529.	280.	317.	748.	847.	10145.	11484.	13.6	808.	5.	47.	13.	9:30
16	441.	499.	293.	331.	734.	830.	9878.	11182.	13.5	782.	5.	45.	12.	9:45
17	427.	483.	314.	355.	740.	838.	9562.	10825.	12.9	767.	5.	45.	12.	10:00
18	400.	453.	341.	386.	741.	838.	9391.	10631.	12.7	756.	5.	45.	12.	10:15
19	371.	420.	360.	407.	731.	827.	9481.	10732.	13.0	759.	5.	45.	13.	10:30
20	316.	358.	367.	416.	684.	774.	9062.	10259.	13.3	707.	5.	42.	12.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	328.	372.	371.	420.	699.	792.	10069.	11398.	14.4	784.	5.	46.	14.	11:00
22	356.	403.	368.	416.	723.	819.	9713.	10995.	13.4	776.	5.	46.	13.	11:15
23	354.	400.	362.	410.	715.	810.	9706.	10988.	13.6	770.	5.	46.	13.	11:30
TOTAL	8000.	9056.	5339.	6044.	13339.	15100.	234035.	264928.	29.3	17188.	99.	958.	296.	

Horizon Year (2045) Interim Build
(Aux Lanes Only)
Northbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2408.	76.	2408.	2408.	76.	2408.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
2	2	1970.	0.	0.	2332.	0.	0.	2332.	4100.	0.	0.	0.	.57	62.	18.8	C	13.6	4.8
3	2	1830.	248.	116.	2580.	248.	116.	2580.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
4	2	2010.	0.	0.	2464.	0.	0.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	13.6	4.8
5	3	2445.	748.	380.	3212.	748.	380.	3212.	5483.	117.	0.	0.	.59	62.	17.3	B	13.6	4.8
6	2	1890.	0.	0.	2832.	0.	0.	2832.	4400.	0.	0.	0.	.64	62.	22.8	C	13.6	4.8
7	3	5320.	472.	616.	3304.	472.	616.	3304.	5600.	0.	0.	0.	.59	62.	17.8	B	13.6	4.8
8	2	880.	0.	0.	2688.	0.	0.	2688.	4400.	0.	0.	0.	.61	62.	21.7	C	14.9	4.8
9	2	1125.	200.	0.	2888.	200.	0.	2888.	4400.	0.	0.	0.	.66	62.	23.3	C	19.9	4.8
10	3	6320.	540.	360.	3428.	540.	360.	3428.	5598.	2.	0.	0.	.61	62.	18.4	C	19.9	4.8
11	2	2050.	0.	0.	3068.	0.	0.	3068.	4100.	0.	0.	0.	.75	62.	24.7	C	19.9	4.8
12	3	2560.	1136.	0.	4204.	1136.	0.	4204.	5501.	99.	0.	0.	.76	62.	22.6	C	17.2	4.8
13	3	1400.	0.	380.	4204.	0.	380.	4204.	5501.	99.	0.	0.	.76	62.	22.6	C	32.3	4.8
14	2	1320.	0.	0.	3824.	0.	0.	3824.	4400.	0.	0.	0.	.87	59.	32.4	D	15.8	3.4
15	3	540.	692.	1276.	4516.	692.	1276.	4516.	5104.	496.	0.	0.	.88	62.	24.3	C	12.6	4.8
16	2	1230.	0.	0.	3240.	0.	0.	3240.	4400.	0.	0.	0.	.74	62.	26.2	D	20.0	4.7
17	2	890.	640.	0.	3880.	640.	0.	3880.	4399.	1.	0.	0.	.88	59.	33.1	D	21.3	3.3
18	3	4840.	264.	732.	4144.	264.	732.	4144.	5543.	57.	0.	0.	.75	62.	22.3	C	17.2	4.8
19	2	530.	0.	0.	3412.	0.	0.	3412.	3800.	0.	0.	0.	.90	58.	29.5	D	21.5	3.1
20	2	1040.	368.	0.	3780.	368.	0.	3780.	4386.	14.	0.	0.	.86	59.	31.8	D	21.1	3.5
21	3	2810.	496.	736.	4276.	496.	736.	4276.	5556.	44.	0.	0.	.77	62.	23.0	C	24.1	4.8
22	2	1850.	0.	0.	3540.	0.	0.	3540.	4400.	0.	0.	0.	.80	61.	29.1	D	17.6	4.2
23	3	2390.	308.	96.	3848.	308.	96.	3848.	5534.	66.	0.	0.	.70	62.	20.7	C	24.1	4.8
24	3	960.	0.	1460.	3752.	0.	1460.	3752.	5578.	22.	0.	0.	.67	62.	20.2	C	17.2	4.8
25	2	1400.	0.	2292.	2292.	0.	2292.	2292.	3600.	0.	0.	0.	.64	62.	18.5	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.90 LOWEST LOS = D AVG = 62. 21.7 17.2 4.6

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 1 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	171. PASS-HRS	137. VEH-HRS	171. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	137. VEH-HRS	171. PASS-HRS	137. VEH-HRS	171. PASS-HRS
TOTAL TRAV DISTANCE =	8463. VEH-MI.	10529. PASS-MI.	8463. VEH-MI.	10529. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		22. VPMPL	
TOTAL FUEL =	492. GALLONS		492. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		39. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2536.	64.	2536.	2536.	64.	2536.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
2	2	1970.	0.	0.	2472.	0.	0.	2472.	4100.	0.	0.	0.	.60	62.	19.9	C	13.6	4.8
3	2	1830.	392.	108.	2864.	392.	108.	2864.	4100.	0.	0.	0.	.70	62.	23.1	C	13.6	4.8
4	2	2010.	0.	0.	2756.	0.	0.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	13.6	4.8
5	3	2445.	444.	400.	3200.	444.	400.	3200.	5600.	0.	0.	0.	.57	62.	17.2	B	13.6	4.8
6	2	1890.	0.	0.	2800.	0.	0.	2800.	4400.	0.	0.	0.	.64	62.	22.6	C	13.6	4.8
7	3	5320.	552.	608.	3352.	552.	608.	3352.	5600.	0.	0.	0.	.60	62.	18.0	C	13.6	4.8
8	2	880.	0.	0.	2744.	0.	0.	2744.	4400.	0.	0.	0.	.62	62.	22.1	C	14.9	4.8
9	2	1125.	168.	0.	2912.	168.	0.	2912.	4400.	0.	0.	0.	.66	62.	23.5	C	19.9	4.8
10	3	6320.	584.	316.	3496.	584.	316.	3496.	5598.	2.	0.	0.	.62	62.	18.8	C	19.9	4.8
11	2	2050.	0.	0.	3180.	0.	0.	3180.	4100.	0.	0.	0.	.78	61.	25.9	C	20.2	4.4
12	3	2560.	1048.	0.	4228.	1048.	0.	4228.	5486.	114.	0.	0.	.77	62.	22.7	C	17.2	4.8
13	3	1400.	0.	480.	4228.	0.	480.	4228.	5486.	114.	0.	0.	.77	62.	22.7	C	32.3	4.8
14	2	1320.	0.	0.	3748.	0.	0.	3748.	4400.	0.	0.	0.	.85	60.	31.4	D	15.6	3.5
15	3	540.	864.	1232.	4612.	864.	1232.	4612.	4968.	632.	0.	0.	.93	62.	24.8	C	12.6	4.8
16	2	1230.	0.	0.	3380.	0.	0.	3380.	4400.	0.	0.	0.	.77	62.	27.5	D	20.2	4.5
17	2	890.	696.	0.	4076.	696.	0.	4076.	4397.	3.	0.	0.	.93	56.	36.1	E	21.9	2.8
18	3	4840.	304.	676.	4380.	304.	676.	4380.	5536.	64.	0.	0.	.79	62.	23.5	C	17.2	4.8
19	2	530.	0.	0.	3704.	0.	0.	3704.	3800.	0.	0.	0.	.97	53.	34.6	D	22.6	2.4
20	2	1040.	356.	0.	4060.	356.	0.	4060.	4384.	16.	0.	0.	.93	57.	35.9	E	21.9	2.8
21	3	2810.	536.	820.	4596.	536.	820.	4596.	5487.	113.	0.	0.	.84	62.	24.7	C	24.1	4.8
22	2	1850.	0.	0.	3776.	0.	0.	3776.	4400.	0.	0.	0.	.86	59.	31.7	D	18.1	3.5
23	3	2390.	320.	236.	4096.	320.	236.	4096.	5530.	70.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1492.	3860.	0.	1492.	3860.	5577.	23.	0.	0.	.69	62.	20.8	C	17.2	4.8
25	2	1400.	0.	2368.	2368.	0.	2368.	2368.	3600.	0.	0.	0.	.66	62.	19.1	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.97 LOWEST LOS = E AVG = 61. 22.7 17.3 4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	280. VEH-HRS	349. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	280. VEH-HRS	349. PASS-HRS
TOTAL TRAV DISTANCE =	8787. VEH-MI.	10931. PASS-MI.	17251. VEH-MI.	21460. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	509. GALLONS		1001. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		79. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2760.	108.	2760.	2760.	108.	2760.	4100.	0.	0.	0.	.67	62.	22.3	C	13.6	4.8
2	2	1970.	0.	0.	2652.	0.	0.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
3	2	1830.	360.	132.	3012.	360.	132.	3012.	4100.	0.	0.	0.	.73	62.	24.3	C	13.6	4.8
4	2	2010.	0.	0.	2880.	0.	0.	2880.	4400.	0.	0.	0.	.65	62.	23.2	C	13.6	4.8
5	3	2445.	396.	372.	3276.	396.	372.	3276.	5600.	0.	0.	0.	.58	62.	17.6	B	13.6	4.8
6	2	1890.	0.	0.	2904.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	13.6	4.8
7	3	5320.	572.	468.	3476.	572.	468.	3476.	5600.	0.	0.	0.	.62	62.	18.7	C	13.6	4.8
8	2	880.	0.	0.	3008.	0.	0.	3008.	4400.	0.	0.	0.	.68	62.	24.3	C	14.9	4.8
9	2	1125.	196.	0.	3204.	196.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	20.0	4.7
10	3	6320.	564.	300.	3768.	564.	300.	3768.	5596.	4.	0.	0.	.67	62.	20.3	C	19.9	4.8
11	2	2050.	0.	0.	3468.	0.	0.	3468.	4100.	0.	0.	0.	.85	60.	29.0	D	21.0	3.6
12	3	2560.	804.	0.	4272.	804.	0.	4272.	5508.	92.	0.	0.	.78	62.	23.0	C	17.2	4.8
13	3	1400.	0.	488.	4272.	0.	488.	4272.	5508.	92.	0.	0.	.78	62.	23.0	C	32.3	4.8
14	2	1320.	0.	0.	3784.	0.	0.	3784.	4400.	0.	0.	0.	.86	59.	31.8	D	15.7	3.5
15	3	540.	804.	1364.	4588.	804.	1364.	4588.	5036.	564.	0.	0.	.91	62.	24.7	C	12.6	4.8
16	2	1230.	0.	0.	3224.	0.	0.	3224.	4400.	0.	0.	0.	.73	62.	26.1	D	20.0	4.7
17	2	890.	652.	0.	3876.	652.	0.	3876.	4399.	1.	0.	0.	.88	59.	33.0	D	21.3	3.3
18	3	4840.	236.	756.	4112.	236.	756.	4112.	5539.	61.	0.	0.	.74	62.	22.1	C	17.2	4.8
19	2	530.	0.	0.	3356.	0.	0.	3356.	3800.	0.	0.	0.	.88	59.	28.7	D	21.3	3.3
20	2	1040.	384.	0.	3740.	384.	0.	3740.	4386.	14.	0.	0.	.85	60.	31.3	D	21.0	3.5
21	3	2810.	660.	732.	4400.	660.	732.	4400.	5473.	127.	0.	0.	.80	62.	23.7	C	24.1	4.8
22	2	1850.	0.	0.	3668.	0.	0.	3668.	4400.	0.	0.	0.	.83	60.	30.4	D	17.9	3.8
23	3	2390.	348.	108.	4016.	348.	108.	4016.	5515.	85.	0.	0.	.73	62.	21.6	C	24.1	4.8
24	3	960.	0.	1596.	3908.	0.	1500.	3908.	5574.	26.	0.	0.	.70	62.	21.0	C	17.2	4.8
25	2	1400.	0.	2312.	2312.	0.	2312.	2312.	3600.	0.	0.	0.	.64	62.	18.6	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.91		LOWEST LOS = D	AVG = 62.	23.0		17.2	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	145. VEH-HRS	180. PASS-HRS	425. VEH-HRS	528. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	3. VEH-HRS	4. PASS-HRS	3. VEH-HRS	4. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	148. VEH-HRS	184. PASS-HRS	428. VEH-HRS	532. PASS-HRS
TOTAL TRAV DISTANCE =	8910. VEH-MI.	11084. PASS-MI.	26161. VEH-MI.	32544. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	520. GALLONS		1521. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		121. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	24.	3.00	1.14	0.02	0.11	0.02	0.14

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2568.	112.	2568.	2568.	112.	2568.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
2	2	1970.	0.	0.	2456.	0.	0.	2456.	4100.	0.	0.	0.	.60	62.	19.8	C	13.6	4.8
3	2	1830.	280.	156.	2736.	280.	156.	2736.	4100.	0.	0.	0.	.67	62.	22.1	C	13.6	4.8
4	2	2010.	0.	0.	2580.	0.	0.	2580.	4400.	0.	0.	0.	.59	62.	20.8	C	13.6	4.8
5	3	2445.	520.	432.	3100.	520.	432.	3100.	5564.	36.	0.	0.	.56	62.	16.7	B	13.6	4.8
6	2	1890.	0.	0.	2668.	0.	0.	2668.	4400.	0.	0.	0.	.61	62.	21.5	C	13.6	4.8
7	3	5320.	556.	464.	3224.	556.	464.	3224.	5600.	0.	0.	0.	.58	62.	17.3	B	13.6	4.8
8	2	880.	0.	0.	2760.	0.	0.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	14.9	4.8
9	2	1125.	180.	0.	2940.	180.	0.	2940.	4400.	0.	0.	0.	.67	62.	23.7	C	19.9	4.8
10	3	6320.	504.	356.	3444.	504.	356.	3444.	5597.	3.	0.	0.	.62	62.	18.5	C	19.9	4.8
11	2	2050.	0.	0.	3088.	0.	0.	3088.	4100.	0.	0.	0.	.75	62.	25.0	C	20.1	4.6
12	3	2560.	768.	0.	3856.	768.	0.	3856.	5513.	87.	0.	0.	.70	62.	20.7	C	17.2	4.8
13	3	1400.	0.	460.	3856.	0.	460.	3856.	5513.	87.	0.	0.	.70	62.	20.7	C	32.3	4.8
14	2	1320.	0.	0.	3396.	0.	0.	3396.	4400.	0.	0.	0.	.77	61.	27.6	D	15.1	4.5
15	3	540.	976.	1472.	4372.	976.	1472.	4372.	4952.	648.	0.	0.	.88	62.	23.5	C	12.6	4.8
16	2	1230.	0.	0.	2900.	0.	0.	2900.	4400.	0.	0.	0.	.66	62.	23.4	C	19.9	4.8
17	2	890.	580.	0.	3480.	580.	0.	3480.	4400.	0.	0.	0.	.79	61.	28.4	D	20.3	4.3
18	3	4840.	236.	828.	3716.	236.	828.	3716.	5562.	38.	0.	0.	.67	62.	20.0	C	17.2	4.8
19	2	530.	0.	0.	2888.	0.	0.	2888.	3800.	0.	0.	0.	.76	62.	23.3	C	19.9	4.8
20	2	1040.	452.	0.	3340.	452.	0.	3340.	4386.	14.	0.	0.	.76	62.	27.1	D	20.1	4.5
21	3	2810.	576.	836.	3916.	576.	836.	3916.	5480.	120.	0.	0.	.71	62.	21.1	C	24.1	4.8
22	2	1850.	0.	0.	3080.	0.	0.	3080.	4400.	0.	0.	0.	.70	62.	24.9	C	17.2	4.8
23	3	2390.	588.	232.	3668.	588.	232.	3668.	5498.	102.	0.	0.	.67	62.	19.7	C	24.1	4.8
24	3	960.	0.	1620.	3436.	0.	1500.	3436.	5581.	19.	0.	0.	.62	62.	18.5	C	17.2	4.8
25	2	1400.	0.	1816.	1816.	0.	1816.	1816.	3600.	0.	0.	0.	.50	62.	14.6	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.88		LOWEST LOS = D	AVG = 62.	20.6		17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	162. PASS-HRS	555. VEH-HRS	690. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	10. VEH-HRS	12. PASS-HRS	13. VEH-HRS	16. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	174. PASS-HRS	568. VEH-HRS	706. PASS-HRS
TOTAL TRAV DISTANCE =	8070. VEH-MI.	10039. PASS-MI.	34231. VEH-MI.	42584. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		22. VPMPL	
TOTAL FUEL =	477. GALLONS		1998. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		159. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	54.	9.75	3.69	0.06	0.35	0.06	0.47

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2680.	108.	2680.	2680.	108.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
2	2	1970.	0.	0.	2572.	0.	0.	2572.	4100.	0.	0.	0.	.63	62.	20.7	C	13.6	4.8
3	2	1830.	264.	204.	2836.	264.	204.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
4	2	2010.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
5	3	2445.	728.	328.	3360.	728.	328.	3360.	5523.	77.	0.	0.	.61	62.	18.1	C	13.6	4.8
6	2	1890.	0.	0.	3032.	0.	0.	3032.	4400.	0.	0.	0.	.69	62.	24.5	C	13.6	4.8
7	3	5320.	604.	656.	3636.	604.	656.	3636.	5600.	0.	0.	0.	.65	62.	19.5	C	13.6	4.8
8	2	880.	0.	0.	2980.	0.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	14.9	4.8
9	2	1125.	224.	0.	3204.	224.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	20.0	4.7
10	3	6320.	468.	364.	3672.	468.	364.	3672.	5595.	5.	0.	0.	.66	62.	19.7	C	19.9	4.8
11	2	2050.	0.	0.	3308.	0.	0.	3308.	4100.	0.	0.	0.	.81	61.	27.2	D	20.5	4.1
12	3	2560.	656.	0.	3964.	656.	0.	3964.	5528.	72.	0.	0.	.72	62.	21.3	C	17.2	4.8
13	3	1400.	0.	460.	3964.	0.	460.	3964.	5528.	72.	0.	0.	.72	62.	21.3	C	32.3	4.8
14	2	1320.	0.	0.	3504.	0.	0.	3504.	4400.	0.	0.	0.	.80	61.	28.7	D	15.2	4.2
15	3	540.	1060.	1200.	4564.	1060.	1200.	4564.	4820.	780.	0.	0.	.95	62.	24.5	C	12.6	4.8
16	2	1230.	0.	0.	3364.	0.	0.	3364.	4400.	0.	0.	0.	.76	62.	27.3	D	20.2	4.5
17	2	890.	540.	0.	3904.	540.	0.	3904.	4399.	1.	0.	0.	.89	58.	33.4	D	21.4	3.2
18	3	4840.	188.	724.	4092.	188.	724.	4092.	5547.	53.	0.	0.	.74	62.	22.0	C	17.2	4.8
19	2	530.	0.	0.	3368.	0.	0.	3368.	3800.	0.	0.	0.	.89	58.	28.8	D	21.3	3.2
20	2	1040.	368.	0.	3736.	368.	0.	3736.	4387.	13.	0.	0.	.85	60.	31.3	D	21.0	3.5
21	3	2810.	660.	712.	4396.	660.	712.	4396.	5476.	124.	0.	0.	.80	62.	23.6	C	24.1	4.8
22	2	1850.	0.	0.	3684.	0.	0.	3684.	4400.	0.	0.	0.	.84	60.	30.6	D	17.9	3.7
23	3	2390.	376.	172.	4060.	376.	172.	4060.	5518.	82.	0.	0.	.74	62.	21.8	C	24.1	4.8
24	3	960.	0.	1476.	3888.	0.	1500.	3888.	5573.	27.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	2412.	2412.	0.	2412.	2412.	3600.	0.	0.	0.	.67	62.	19.5	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.95		LOWEST LOS = D	AVG = 62.	22.6		17.1	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	698. VEH-HRS	868. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	13. VEH-HRS	16. PASS-HRS	26. VEH-HRS	32. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	156. VEH-HRS	193. PASS-HRS	723. VEH-HRS	900. PASS-HRS
TOTAL TRAV DISTANCE =	8808. VEH-MI.	10957. PASS-MI.	43039. VEH-MI.	53541. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	519. GALLONS		2517. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		201. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	48.	12.75	4.83	0.07	0.46	0.08	0.61

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2508.	112.	2508.	2508.	112.	2508.	4100.	0.	0.	0.	.61	62.	20.2	C	13.6	4.8
2	2	1970.	0.	0.	2396.	0.	0.	2396.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
3	2	1830.	260.	160.	2656.	260.	160.	2656.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
4	2	2010.	0.	0.	2496.	0.	0.	2496.	4400.	0.	0.	0.	.57	62.	20.1	C	13.6	4.8
5	3	2445.	612.	300.	3108.	612.	300.	3108.	5588.	12.	0.	0.	.56	62.	16.7	B	13.6	4.8
6	2	1890.	0.	0.	2808.	0.	0.	2808.	4400.	0.	0.	0.	.64	62.	22.6	C	13.6	4.8
7	3	5320.	436.	524.	3244.	436.	524.	3244.	5600.	0.	0.	0.	.58	62.	17.4	B	13.6	4.8
8	2	880.	0.	0.	2720.	0.	0.	2720.	4400.	0.	0.	0.	.62	62.	21.9	C	14.9	4.8
9	2	1125.	184.	0.	2904.	184.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	19.9	4.8
10	3	6320.	408.	288.	3312.	408.	288.	3312.	5598.	2.	0.	0.	.59	62.	17.8	B	19.9	4.8
11	2	2050.	0.	0.	3024.	0.	0.	3024.	4100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
12	3	2560.	840.	0.	3864.	840.	0.	3864.	5517.	83.	0.	0.	.70	62.	20.8	C	17.2	4.8
13	3	1400.	0.	428.	3864.	0.	428.	3864.	5517.	83.	0.	0.	.70	62.	20.8	C	32.3	4.8
14	2	1320.	0.	0.	3436.	0.	0.	3436.	4400.	0.	0.	0.	.78	61.	28.0	D	15.1	4.4
15	3	540.	908.	1288.	4344.	908.	1288.	4344.	4960.	640.	0.	0.	.88	62.	23.4	C	12.6	4.8
16	2	1230.	0.	0.	3056.	0.	0.	3056.	4400.	0.	0.	0.	.69	62.	24.6	C	19.9	4.8
17	2	890.	656.	0.	3712.	656.	0.	3712.	4400.	0.	0.	0.	.84	60.	31.0	D	20.9	3.6
18	3	4840.	212.	612.	3924.	212.	612.	3924.	5552.	48.	0.	0.	.71	62.	21.1	C	17.2	4.8
19	2	530.	0.	0.	3312.	0.	0.	3312.	3800.	0.	0.	0.	.87	59.	28.1	D	21.2	3.4
20	2	1040.	384.	0.	3696.	384.	0.	3696.	4386.	14.	0.	0.	.84	60.	30.8	D	20.9	3.6
21	3	2810.	648.	732.	4344.	648.	732.	4344.	5477.	123.	0.	0.	.79	62.	23.4	C	24.1	4.8
22	2	1850.	0.	0.	3612.	0.	0.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	17.8	3.9
23	3	2390.	324.	140.	3936.	324.	140.	3936.	5527.	73.	0.	0.	.71	62.	21.2	C	24.1	4.8
24	3	960.	0.	1580.	3796.	0.	1500.	3796.	5578.	22.	0.	0.	.68	62.	20.4	C	17.2	4.8
25	2	1400.	0.	2216.	2216.	0.	2216.	2216.	3600.	0.	0.	0.	.62	62.	17.9	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.88 LOWEST LOS = D AVG = 62. 21.2 17.2 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	167. PASS-HRS	832. VEH-HRS	1035. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	14. VEH-HRS	18. PASS-HRS	40. VEH-HRS	50. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	185. PASS-HRS	872. VEH-HRS	1085. PASS-HRS
TOTAL TRAV DISTANCE =	8284. VEH-MI.	10305. PASS-MI.	51323. VEH-MI.	63846. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		22. VPMPL	
TOTAL FUEL =	489. GALLONS		3006. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		240. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	68.	14.50	5.49	0.08	0.52	0.09	0.69

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2584.	164.	2584.	2584.	164.	2584.	4100.	0.	0.	0.	.63	62.	20.8	C	13.6	4.8
2	2	1970.	0.	0.	2420.	0.	0.	2420.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
3	2	1830.	248.	140.	2668.	248.	140.	2668.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
4	2	2010.	0.	0.	2528.	0.	0.	2528.	4400.	0.	0.	0.	.57	62.	20.4	C	13.6	4.8
5	3	2445.	704.	348.	3232.	704.	348.	3232.	5518.	82.	0.	0.	.59	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	2884.	0.	0.	2884.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
7	3	5320.	488.	468.	3372.	488.	468.	3372.	5600.	0.	0.	0.	.60	62.	18.1	C	13.6	4.8
8	2	880.	0.	0.	2904.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	14.9	4.8
9	2	1125.	164.	0.	3068.	164.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	19.9	4.8
10	3	6320.	524.	276.	3592.	524.	276.	3592.	5597.	3.	0.	0.	.64	62.	19.3	C	19.9	4.8
11	2	2050.	0.	0.	3316.	0.	0.	3316.	4100.	0.	0.	0.	.81	61.	27.3	D	20.5	4.1
12	3	2560.	780.	0.	4096.	780.	0.	4096.	5516.	84.	0.	0.	.74	62.	22.0	C	17.2	4.8
13	3	1400.	0.	440.	4096.	0.	440.	4096.	5516.	84.	0.	0.	.74	62.	22.0	C	32.3	4.8
14	2	1320.	0.	0.	3656.	0.	0.	3656.	4400.	0.	0.	0.	.83	60.	30.3	D	15.5	3.8
15	3	540.	776.	1188.	4432.	776.	1188.	4432.	5032.	568.	0.	0.	.88	62.	23.8	C	12.6	4.8
16	2	1230.	0.	0.	3244.	0.	0.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	20.0	4.7
17	2	890.	632.	0.	3876.	632.	0.	3876.	4398.	2.	0.	0.	.88	59.	33.1	D	21.3	3.3
18	3	4840.	236.	496.	4112.	236.	496.	4112.	5558.	42.	0.	0.	.74	62.	22.1	C	17.2	4.8
19	2	530.	0.	0.	3616.	0.	0.	3616.	3800.	0.	0.	0.	.95	55.	32.9	D	22.3	2.4
20	2	1040.	380.	0.	3996.	380.	0.	3996.	4385.	15.	0.	0.	.91	57.	34.9	D	21.7	3.0
21	3	2810.	672.	796.	4668.	672.	796.	4668.	5414.	186.	0.	0.	.86	59.	26.2	D	25.7	3.5
22	2	1850.	0.	0.	3872.	0.	0.	3872.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	332.	152.	4204.	332.	152.	4204.	5523.	77.	0.	0.	.76	62.	22.6	C	24.1	4.8
24	3	960.	0.	1536.	4052.	0.	1500.	4052.	5574.	26.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2516.	2516.	0.	2516.	2516.	3600.	0.	0.	0.	.70	62.	20.3	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.95		LOWEST LOS = D	AVG = 61.	22.6		17.3	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	143. VEH-HRS	178. PASS-HRS	975. VEH-HRS	1212. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	18. VEH-HRS	23. PASS-HRS	58. VEH-HRS	72. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	161. VEH-HRS	200. PASS-HRS	1033. VEH-HRS	1285. PASS-HRS
TOTAL TRAV DISTANCE =	8755. VEH-MI.	10891. PASS-MI.	60078. VEH-MI.	74737. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		62. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	512. GALLONS		3517. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		280. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	77.	18.12	6.86	0.11	0.65	0.11	0.87

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2552.	112.	2552.	2552.	112.	2552.	4100.	0.	0.	0.	.62	62.	20.6	C	13.6	4.8
2	2	1970.	0.	0.	2440.	0.	0.	2440.	4100.	0.	0.	0.	.60	62.	19.7	C	13.6	4.8
3	2	1830.	308.	156.	2748.	308.	156.	2748.	4100.	0.	0.	0.	.67	62.	22.2	C	13.6	4.8
4	2	2010.	0.	0.	2592.	0.	0.	2592.	4400.	0.	0.	0.	.59	62.	20.9	C	13.6	4.8
5	3	2445.	596.	348.	3188.	596.	348.	3188.	5572.	28.	0.	0.	.57	62.	17.1	B	13.6	4.8
6	2	1890.	0.	0.	2840.	0.	0.	2840.	4400.	0.	0.	0.	.65	62.	22.9	C	13.6	4.8
7	3	5320.	496.	548.	3336.	496.	548.	3336.	5600.	0.	0.	0.	.60	62.	17.9	B	13.6	4.8
8	2	880.	0.	0.	2788.	0.	0.	2788.	4400.	0.	0.	0.	.63	62.	22.5	C	14.9	4.8
9	2	1125.	164.	0.	2952.	164.	0.	2952.	4400.	0.	0.	0.	.67	62.	23.8	C	19.9	4.8
10	3	6320.	444.	316.	3396.	444.	316.	3396.	5598.	2.	0.	0.	.61	62.	18.3	C	19.9	4.8
11	2	2050.	0.	0.	3080.	0.	0.	3080.	4100.	0.	0.	0.	.75	62.	24.8	C	19.9	4.8
12	3	2560.	704.	0.	3784.	704.	0.	3784.	5517.	83.	0.	0.	.69	62.	20.3	C	17.2	4.8
13	3	1400.	0.	488.	3784.	0.	488.	3784.	5517.	83.	0.	0.	.69	62.	20.3	C	32.3	4.8
14	2	1320.	0.	0.	3296.	0.	0.	3296.	4400.	0.	0.	0.	.75	62.	26.7	D	15.0	4.6
15	3	540.	796.	1356.	4092.	796.	1356.	4092.	5068.	532.	0.	0.	.81	62.	22.0	C	12.6	4.8
16	2	1230.	0.	0.	2736.	0.	0.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	19.9	4.8
17	2	890.	476.	0.	3212.	476.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	20.0	4.7
18	3	4840.	192.	660.	3404.	192.	660.	3404.	5577.	23.	0.	0.	.61	62.	18.3	C	17.2	4.8
19	2	530.	0.	0.	2744.	0.	0.	2744.	3800.	0.	0.	0.	.72	62.	22.1	C	19.9	4.8
20	2	1040.	384.	0.	3128.	384.	0.	3128.	4391.	9.	0.	0.	.71	62.	25.3	C	20.0	4.7
21	3	2810.	772.	664.	3900.	772.	664.	3900.	5485.	115.	0.	0.	.71	62.	21.0	C	24.1	4.8
22	2	1850.	0.	0.	3236.	0.	0.	3236.	4400.	0.	0.	0.	.74	62.	26.2	D	17.3	4.7
23	3	2390.	308.	228.	3544.	308.	228.	3544.	5551.	49.	0.	0.	.64	62.	19.1	C	24.1	4.8
24	3	960.	0.	1548.	3316.	0.	1500.	3316.	5592.	8.	0.	0.	.59	62.	17.8	B	17.2	4.8
25	2	1400.	0.	1768.	1768.	0.	1768.	1768.	3600.	0.	0.	0.	.49	62.	14.3	B	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 0.81	LOWEST LOS = D		AVG = 62.	20.4	17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	160. PASS-HRS	1103. VEH-HRS	1372. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	21. VEH-HRS	26. PASS-HRS	79. VEH-HRS	98. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	186. PASS-HRS	1182. VEH-HRS	1470. PASS-HRS
TOTAL TRAV DISTANCE =	7964. VEH-MI.	9908. PASS-MI.	68043. VEH-MI.	84645. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	477. GALLONS		3995. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		319. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	89.	20.75	7.86	0.12	0.74	0.13	0.99

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2792.	140.	2792.	2792.	140.	2792.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
2	2	1970.	0.	0.	2652.	0.	0.	2652.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
3	2	1830.	284.	144.	2936.	284.	144.	2936.	4100.	0.	0.	0.	.72	62.	23.7	C	13.6	4.8
4	2	2010.	0.	0.	2792.	0.	0.	2792.	4400.	0.	0.	0.	.63	62.	22.5	C	13.6	4.8
5	3	2445.	428.	508.	3220.	428.	508.	3220.	5564.	36.	0.	0.	.58	62.	17.3	B	13.6	4.8
6	2	1890.	0.	0.	2712.	0.	0.	2712.	4400.	0.	0.	0.	.62	62.	21.9	C	13.6	4.8
7	3	5320.	408.	436.	3120.	408.	436.	3120.	5600.	0.	0.	0.	.56	62.	16.8	B	13.6	4.8
8	2	880.	0.	0.	2684.	0.	0.	2684.	4400.	0.	0.	0.	.61	62.	21.6	C	14.9	4.8
9	2	1125.	152.	0.	2836.	152.	0.	2836.	4400.	0.	0.	0.	.64	62.	22.9	C	19.9	4.8
10	3	6320.	372.	372.	3208.	372.	372.	3208.	5599.	1.	0.	0.	.57	62.	17.2	B	19.9	4.8
11	2	2050.	0.	0.	2836.	0.	0.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	19.9	4.8
12	3	2560.	840.	0.	3676.	840.	0.	3676.	5510.	90.	0.	0.	.67	62.	19.8	C	17.2	4.8
13	3	1400.	0.	436.	3676.	0.	436.	3676.	5510.	90.	0.	0.	.67	62.	19.8	C	32.3	4.8
14	2	1320.	0.	0.	3240.	0.	0.	3240.	4400.	0.	0.	0.	.74	62.	26.2	D	15.0	4.7
15	3	540.	584.	1128.	3824.	584.	1128.	3824.	5188.	412.	0.	0.	.74	62.	20.6	C	12.6	4.8
16	2	1230.	0.	0.	2696.	0.	0.	2696.	4400.	0.	0.	0.	.61	62.	21.7	C	19.9	4.8
17	2	890.	580.	0.	3276.	580.	0.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
18	3	4840.	168.	496.	3444.	168.	496.	3444.	5572.	28.	0.	0.	.62	62.	18.5	C	17.2	4.8
19	2	530.	0.	0.	2948.	0.	0.	2948.	3800.	0.	0.	0.	.78	62.	23.8	C	19.9	4.8
20	2	1040.	436.	0.	3384.	436.	0.	3384.	4386.	14.	0.	0.	.77	61.	27.5	D	20.2	4.5
21	3	2810.	596.	760.	3980.	596.	760.	3980.	5503.	97.	0.	0.	.72	62.	21.4	C	24.1	4.8
22	2	1850.	0.	0.	3220.	0.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	17.2	4.7
23	3	2390.	336.	168.	3556.	336.	168.	3556.	5542.	58.	0.	0.	.64	62.	19.1	C	24.1	4.8
24	3	960.	0.	1456.	3388.	0.	1500.	3388.	5586.	14.	0.	0.	.61	62.	18.2	C	17.2	4.8
25	2	1400.	0.	1932.	1932.	0.	1932.	1932.	3600.	0.	0.	0.	.54	62.	15.6	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.78		LOWEST LOS = D	AVG = 62.	20.4		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	128. VEH-HRS	159. PASS-HRS	1231. VEH-HRS	1531. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	21. VEH-HRS	26. PASS-HRS	100. VEH-HRS	124. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	149. VEH-HRS	185. PASS-HRS	1331. VEH-HRS	1655. PASS-HRS
TOTAL TRAV DISTANCE =	7927. VEH-MI.	9861. PASS-MI.	75970. VEH-MI.	94506. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	476. GALLONS		4470. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		358. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	78.	20.87	7.91	0.12	0.75	0.13	1.00

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2624.	104.	2624.	2624.	104.	2624.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
2	2	1970.	0.	0.	2520.	0.	0.	2520.	4100.	0.	0.	0.	.61	62.	20.3	C	13.6	4.8
3	2	1830.	268.	156.	2788.	268.	156.	2788.	4100.	0.	0.	0.	.68	62.	22.5	C	13.6	4.8
4	2	2010.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	13.6	4.8
5	3	2445.	652.	504.	3284.	652.	504.	3284.	5438.	162.	0.	0.	.60	62.	17.7	B	13.6	4.8
6	2	1890.	0.	0.	2780.	0.	0.	2780.	4400.	0.	0.	0.	.63	62.	22.4	C	13.6	4.8
7	3	5320.	400.	500.	3180.	400.	500.	3180.	5600.	0.	0.	0.	.57	62.	17.1	B	13.6	4.8
8	2	880.	0.	0.	2680.	0.	0.	2680.	4400.	0.	0.	0.	.61	62.	21.6	C	14.9	4.8
9	2	1125.	176.	0.	2856.	176.	0.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	19.9	4.8
10	3	6320.	444.	428.	3300.	444.	428.	3300.	5599.	1.	0.	0.	.59	62.	17.7	B	19.9	4.8
11	2	2050.	0.	0.	2872.	0.	0.	2872.	4100.	0.	0.	0.	.70	62.	23.2	C	19.9	4.8
12	3	2560.	656.	0.	3528.	656.	0.	3528.	5522.	78.	0.	0.	.64	62.	19.0	C	17.2	4.8
13	3	1400.	0.	484.	3528.	0.	484.	3528.	5522.	78.	0.	0.	.64	62.	19.0	C	32.3	4.8
14	2	1320.	0.	0.	3044.	0.	0.	3044.	4400.	0.	0.	0.	.69	62.	24.5	C	14.9	4.8
15	3	540.	624.	1320.	3668.	624.	1320.	3668.	5200.	400.	0.	0.	.71	62.	19.7	C	12.6	4.8
16	2	1230.	0.	0.	2348.	0.	0.	2348.	4400.	0.	0.	0.	.53	62.	18.9	C	19.9	4.8
17	2	890.	528.	0.	2876.	528.	0.	2876.	4400.	0.	0.	0.	.65	62.	23.2	C	19.9	4.8
18	3	4840.	232.	560.	3108.	232.	560.	3108.	5592.	8.	0.	0.	.56	62.	16.7	B	17.2	4.8
19	2	530.	0.	0.	2548.	0.	0.	2548.	3800.	0.	0.	0.	.67	62.	20.5	C	19.9	4.8
20	2	1040.	372.	0.	2920.	372.	0.	2920.	4394.	6.	0.	0.	.66	62.	23.5	C	19.9	4.8
21	3	2810.	644.	728.	3564.	644.	728.	3564.	5541.	59.	0.	0.	.64	62.	19.2	C	24.1	4.8
22	2	1850.	0.	0.	2836.	0.	0.	2836.	4400.	0.	0.	0.	.64	62.	22.9	C	17.2	4.8
23	3	2390.	252.	156.	3088.	252.	156.	3088.	5587.	13.	0.	0.	.55	62.	16.6	B	24.1	4.8
24	3	960.	0.	1516.	2932.	0.	1500.	2932.	5600.	0.	0.	0.	.52	62.	15.8	B	17.2	4.8
25	2	1400.	0.	1416.	1416.	0.	1416.	1416.	3600.	0.	0.	0.	.39	62.	11.4	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.71 LOWEST LOS = C AVG = 62. 19.3 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	151. PASS-HRS	1353. VEH-HRS	1683. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	20. VEH-HRS	25. PASS-HRS	120. VEH-HRS	149. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	141. VEH-HRS	176. PASS-HRS	1472. VEH-HRS	1831. PASS-HRS
TOTAL TRAV DISTANCE =	7532. VEH-MI.	9370. PASS-MI.	83502. VEH-MI.	103877. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	19. VPMPL		21. VPMPL	
TOTAL FUEL =	455. GALLONS		4925. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		395. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	82.	20.00	7.58	0.12	0.72	0.12	0.96

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2852.	116.	2852.	2852.	116.	2852.	4100.	0.	0.	0.	.70	62.	23.0	C	13.6	4.8
2	2	1970.	0.	0.	2736.	0.	0.	2736.	4100.	0.	0.	0.	.67	62.	22.1	C	13.6	4.8
3	2	1830.	268.	144.	3004.	268.	144.	3004.	4100.	0.	0.	0.	.73	62.	24.2	C	13.6	4.8
4	2	2010.	0.	0.	2860.	0.	0.	2860.	4400.	0.	0.	0.	.65	62.	23.1	C	13.6	4.8
5	3	2445.	612.	472.	3472.	612.	472.	3472.	5484.	116.	0.	0.	.63	62.	18.7	C	13.6	4.8
6	2	1890.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	13.6	4.8
7	3	5320.	328.	484.	3328.	328.	484.	3328.	5600.	0.	0.	0.	.59	62.	17.9	B	13.6	4.8
8	2	880.	0.	0.	2844.	0.	0.	2844.	4400.	0.	0.	0.	.65	62.	22.9	C	14.9	4.8
9	2	1125.	128.	0.	2972.	128.	0.	2972.	4400.	0.	0.	0.	.68	62.	24.0	C	19.9	4.8
10	3	6320.	416.	388.	3388.	416.	388.	3388.	5598.	2.	0.	0.	.61	62.	18.2	C	19.9	4.8
11	2	2050.	0.	0.	3000.	0.	0.	3000.	4100.	0.	0.	0.	.73	62.	24.2	C	19.9	4.8
12	3	2560.	688.	0.	3688.	688.	0.	3688.	5528.	72.	0.	0.	.67	62.	19.8	C	17.2	4.8
13	3	1400.	0.	432.	3688.	0.	432.	3688.	5528.	72.	0.	0.	.67	62.	19.8	C	32.3	4.8
14	2	1320.	0.	0.	3256.	0.	0.	3256.	4400.	0.	0.	0.	.74	62.	26.4	D	15.0	4.7
15	3	540.	524.	1172.	3780.	524.	1172.	3780.	5240.	360.	0.	0.	.72	62.	20.3	C	12.6	4.8
16	2	1230.	0.	0.	2608.	0.	0.	2608.	4400.	0.	0.	0.	.59	62.	21.0	C	19.9	4.8
17	2	890.	560.	0.	3168.	560.	0.	3168.	4400.	0.	0.	0.	.72	62.	25.6	C	20.0	4.7
18	3	4840.	232.	552.	3400.	232.	552.	3400.	5577.	23.	0.	0.	.61	62.	18.3	C	17.2	4.8
19	2	530.	0.	0.	2848.	0.	0.	2848.	3800.	0.	0.	0.	.75	62.	23.0	C	19.9	4.8
20	2	1040.	444.	0.	3292.	444.	0.	3292.	4387.	13.	0.	0.	.75	62.	26.7	D	20.1	4.6
21	3	2810.	624.	848.	3916.	624.	848.	3916.	5450.	150.	0.	0.	.72	62.	21.1	C	24.1	4.8
22	2	1850.	0.	0.	3068.	0.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	17.2	4.8
23	3	2390.	308.	180.	3376.	308.	180.	3376.	5564.	36.	0.	0.	.61	62.	18.2	C	24.1	4.8
24	3	960.	0.	1572.	3196.	0.	1500.	3196.	5596.	4.	0.	0.	.57	62.	17.2	B	17.2	4.8
25	2	1400.	0.	1624.	1624.	0.	1624.	1624.	3600.	0.	0.	0.	.45	62.	13.1	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.75		LOWEST LOS = D	AVG = 62.	20.7		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	130. VEH-HRS	162. PASS-HRS	1482. VEH-HRS	1844. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	23. VEH-HRS	28. PASS-HRS	142. VEH-HRS	177. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	153. VEH-HRS	190. PASS-HRS	1625. VEH-HRS	2021. PASS-HRS
TOTAL TRAV DISTANCE =	8052. VEH-MI.	10017. PASS-MI.	91554. VEH-MI.	113893. PASS-MI.
AVERAGE SYSTEM SPEED =	53. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		21. VPMPL	
TOTAL FUEL =	486. GALLONS		5411. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		435. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	100.	22.75	8.62	0.13	0.81	0.14	1.09

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2648.	108.	2648.	2648.	108.	2648.	4100.	0.	0.	0.	.65	62.	21.4	C	13.6	4.8
2	2	1970.	0.	0.	2540.	0.	0.	2540.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
3	2	1830.	272.	196.	2812.	272.	196.	2812.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
4	2	2010.	0.	0.	2616.	0.	0.	2616.	4400.	0.	0.	0.	.59	62.	21.1	C	13.6	4.8
5	3	2445.	556.	508.	3172.	556.	508.	3172.	5495.	105.	0.	0.	.58	62.	17.1	B	13.6	4.8
6	2	1890.	0.	0.	2664.	0.	0.	2664.	4400.	0.	0.	0.	.61	62.	21.5	C	13.6	4.8
7	3	5320.	408.	544.	3072.	408.	544.	3072.	5600.	0.	0.	0.	.55	62.	16.5	B	13.6	4.8
8	2	880.	0.	0.	2528.	0.	0.	2528.	4400.	0.	0.	0.	.57	62.	20.4	C	14.9	4.8
9	2	1125.	144.	0.	2672.	144.	0.	2672.	4400.	0.	0.	0.	.61	62.	21.5	C	19.9	4.8
10	3	6320.	488.	336.	3160.	488.	336.	3160.	5600.	0.	0.	0.	.56	62.	17.0	B	19.9	4.8
11	2	2050.	0.	0.	2824.	0.	0.	2824.	4100.	0.	0.	0.	.69	62.	22.8	C	19.9	4.8
12	3	2560.	776.	0.	3600.	776.	0.	3600.	5505.	95.	0.	0.	.65	62.	19.4	C	17.2	4.8
13	3	1400.	0.	528.	3600.	0.	528.	3600.	5505.	95.	0.	0.	.65	62.	19.4	C	32.3	4.8
14	2	1320.	0.	0.	3072.	0.	0.	3072.	4400.	0.	0.	0.	.70	62.	24.8	C	14.9	4.8
15	3	540.	552.	1208.	3624.	552.	1208.	3624.	5232.	368.	0.	0.	.69	62.	19.5	C	12.6	4.8
16	2	1230.	0.	0.	2416.	0.	0.	2416.	4400.	0.	0.	0.	.55	62.	19.5	C	19.9	4.8
17	2	890.	564.	0.	2980.	564.	0.	2980.	4400.	0.	0.	0.	.68	62.	24.0	C	19.9	4.8
18	3	4840.	120.	456.	3100.	120.	456.	3100.	5586.	14.	0.	0.	.55	62.	16.7	B	17.2	4.8
19	2	530.	0.	0.	2644.	0.	0.	2644.	3800.	0.	0.	0.	.70	62.	21.3	C	19.9	4.8
20	2	1040.	428.	0.	3072.	428.	0.	3072.	4391.	9.	0.	0.	.70	62.	24.8	C	19.9	4.8
21	3	2810.	728.	844.	3800.	728.	844.	3800.	5413.	187.	0.	0.	.70	62.	20.4	C	24.1	4.8
22	2	1850.	0.	0.	2956.	0.	0.	2956.	4400.	0.	0.	0.	.67	62.	23.8	C	17.2	4.8
23	3	2390.	340.	168.	3296.	340.	168.	3296.	5587.	13.	0.	0.	.59	62.	17.7	B	24.1	4.8
24	3	960.	0.	1744.	3128.	0.	1500.	3128.	5600.	0.	0.	0.	.56	62.	16.8	B	17.2	4.8
25	2	1400.	0.	1384.	1384.	0.	1384.	1384.	3600.	0.	0.	0.	.38	62.	11.2	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.70 LOWEST LOS = C AVG = 62. 19.3 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	151. PASS-HRS	1604. VEH-HRS	1995. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	33. VEH-HRS	41. PASS-HRS	175. VEH-HRS	218. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	192. PASS-HRS	1779. VEH-HRS	2213. PASS-HRS
TOTAL TRAV DISTANCE =	7528. VEH-MI.	9365. PASS-MI.	99082. VEH-MI.	123258. PASS-MI.
AVERAGE SYSTEM SPEED =	49. MPH.		62. MPH.	
AVERAGE DENSITY =	19. VPMPL		21. VPMPL	
TOTAL FUEL =	458. GALLONS		5869. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		472. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	161.	32.62	12.36	0.19	1.17	0.20	1.56

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2812.	172.	2812.	2812.	172.	2812.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
2	2	1970.	0.	0.	2640.	0.	0.	2640.	4100.	0.	0.	0.	.64	62.	21.3	C	13.6	4.8
3	2	1830.	320.	160.	2960.	320.	160.	2960.	4100.	0.	0.	0.	.72	62.	23.9	C	13.6	4.8
4	2	2010.	0.	0.	2800.	0.	0.	2800.	4400.	0.	0.	0.	.64	62.	22.6	C	13.6	4.8
5	3	2445.	448.	548.	3248.	448.	548.	3248.	5526.	74.	0.	0.	.59	62.	17.5	B	13.6	4.8
6	2	1890.	0.	0.	2700.	0.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	13.6	4.8
7	3	5320.	556.	516.	3256.	556.	516.	3256.	5600.	0.	0.	0.	.58	62.	17.5	B	13.6	4.8
8	2	880.	0.	0.	2740.	0.	0.	2740.	4400.	0.	0.	0.	.62	62.	22.1	C	14.9	4.8
9	2	1125.	232.	0.	2972.	232.	0.	2972.	4400.	0.	0.	0.	.68	62.	24.0	C	19.9	4.8
10	3	6320.	532.	476.	3504.	532.	476.	3504.	5597.	3.	0.	0.	.63	62.	18.8	C	19.9	4.8
11	2	2050.	0.	0.	3028.	0.	0.	3028.	4100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
12	3	2560.	760.	0.	3788.	760.	0.	3788.	5517.	83.	0.	0.	.69	62.	20.4	C	17.2	4.8
13	3	1400.	0.	460.	3788.	0.	460.	3788.	5517.	83.	0.	0.	.69	62.	20.4	C	32.3	4.8
14	2	1320.	0.	0.	3328.	0.	0.	3328.	4400.	0.	0.	0.	.76	62.	27.0	D	15.0	4.6
15	3	540.	768.	1256.	4096.	768.	1256.	4096.	5068.	532.	0.	0.	.81	62.	22.0	C	12.6	4.8
16	2	1230.	0.	0.	2840.	0.	0.	2840.	4400.	0.	0.	0.	.65	62.	22.9	C	19.9	4.8
17	2	890.	672.	0.	3512.	672.	0.	3512.	4400.	0.	0.	0.	.80	61.	28.8	D	20.4	4.2
18	3	4840.	172.	480.	3684.	172.	480.	3684.	5563.	37.	0.	0.	.66	62.	19.8	C	17.2	4.8
19	2	530.	0.	0.	3204.	0.	0.	3204.	3800.	0.	0.	0.	.84	60.	26.7	D	20.9	3.6
20	2	1040.	500.	0.	3704.	500.	0.	3704.	4381.	19.	0.	0.	.85	60.	30.9	D	21.0	3.6
21	3	2810.	788.	892.	4492.	788.	892.	4492.	5250.	350.	0.	0.	.86	62.	24.2	C	24.1	4.8
22	2	1850.	0.	0.	3600.	0.	0.	3600.	4400.	0.	0.	0.	.82	61.	29.7	D	17.7	4.0
23	3	2390.	400.	132.	4000.	400.	132.	4000.	5508.	92.	0.	0.	.73	62.	21.5	C	24.1	4.8
24	3	960.	0.	1720.	3868.	0.	1500.	3868.	5573.	27.	0.	0.	.69	62.	20.8	C	17.2	4.8
25	2	1400.	0.	2148.	2148.	0.	2148.	2148.	3600.	0.	0.	0.	.60	62.	17.3	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.86		LOWEST LOS = D	AVG = 62.	21.6		17.1	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	169. PASS-HRS	1740. VEH-HRS	2164. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	47. VEH-HRS	59. PASS-HRS	222. VEH-HRS	276. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	183. VEH-HRS	228. PASS-HRS	1962. VEH-HRS	2441. PASS-HRS
TOTAL TRAV DISTANCE =	8402. VEH-MI.	10452. PASS-MI.	107484. VEH-MI.	133710. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		62. MPH.	
AVERAGE DENSITY =	22. VPMPL		21. VPMPL	
TOTAL FUEL =	509. GALLONS		6378. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		514. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	216.	47.12	17.85	0.27	1.69	0.29	2.25

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2980.	152.	2980.	2980.	152.	2980.	4100.	0.	0.	0.	.73	62.	24.0	C	13.6	4.8
2	2	1970.	0.	0.	2828.	0.	0.	2828.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
3	2	1830.	368.	240.	3196.	368.	240.	3196.	4100.	0.	0.	0.	.78	61.	26.0	D	13.7	4.4
4	2	2010.	0.	0.	2956.	0.	0.	2956.	4400.	0.	0.	0.	.67	62.	23.8	C	13.6	4.8
5	3	2445.	540.	636.	3496.	540.	636.	3496.	5402.	198.	0.	0.	.65	62.	18.8	C	13.6	4.8
6	2	1890.	0.	0.	2860.	0.	0.	2860.	4400.	0.	0.	0.	.65	62.	23.1	C	13.6	4.8
7	3	5320.	516.	764.	3376.	516.	764.	3376.	5600.	0.	0.	0.	.60	62.	18.2	C	13.6	4.8
8	2	880.	0.	0.	2612.	0.	0.	2612.	4400.	0.	0.	0.	.59	62.	21.1	C	14.9	4.8
9	2	1125.	128.	0.	2740.	128.	0.	2740.	4400.	0.	0.	0.	.62	62.	22.1	C	19.9	4.8
10	3	6320.	432.	488.	3172.	432.	488.	3172.	5600.	0.	0.	0.	.57	62.	17.1	B	19.9	4.8
11	2	2050.	0.	0.	2684.	0.	0.	2684.	4100.	0.	0.	0.	.65	62.	21.6	C	19.9	4.8
12	3	2560.	704.	0.	3388.	704.	0.	3388.	5501.	99.	0.	0.	.62	62.	18.2	C	17.2	4.8
13	3	1400.	0.	640.	3388.	0.	640.	3388.	5501.	99.	0.	0.	.62	62.	18.2	C	32.3	4.8
14	2	1320.	0.	0.	2748.	0.	0.	2748.	4400.	0.	0.	0.	.62	62.	22.2	C	14.9	4.8
15	3	540.	788.	1284.	3536.	788.	1284.	3536.	5100.	500.	0.	0.	.69	62.	19.0	C	12.6	4.8
16	2	1230.	0.	0.	2252.	0.	0.	2252.	4400.	0.	0.	0.	.51	62.	18.2	C	19.9	4.8
17	2	890.	596.	0.	2848.	596.	0.	2848.	4400.	0.	0.	0.	.65	62.	23.0	C	19.9	4.8
18	3	4840.	164.	464.	3012.	164.	464.	3012.	5592.	8.	0.	0.	.54	62.	16.2	B	17.2	4.8
19	2	530.	0.	0.	2548.	0.	0.	2548.	3800.	0.	0.	0.	.67	62.	20.5	C	19.9	4.8
20	2	1040.	428.	0.	2976.	428.	0.	2976.	4393.	7.	0.	0.	.68	62.	24.0	C	19.9	4.8
21	3	2810.	700.	916.	3676.	700.	916.	3676.	5399.	201.	0.	0.	.68	62.	19.8	C	24.1	4.8
22	2	1850.	0.	0.	2760.	0.	0.	2760.	4400.	0.	0.	0.	.63	62.	22.3	C	17.2	4.8
23	3	2390.	364.	192.	3124.	364.	192.	3124.	5600.	0.	0.	0.	.56	62.	16.8	B	24.1	4.8
24	3	960.	0.	1712.	2932.	0.	1500.	2932.	5600.	0.	0.	0.	.52	62.	15.8	B	17.2	4.8
25	2	1400.	0.	1220.	1220.	0.	1220.	1220.	3600.	0.	0.	0.	.34	62.	9.8	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.78 LOWEST LOS = D AVG = 62. 19.6 16.7 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	123. VEH-HRS	153. PASS-HRS	1863. VEH-HRS	2317. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	61. VEH-HRS	75. PASS-HRS	283. VEH-HRS	352. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	184. VEH-HRS	228. PASS-HRS	2146. VEH-HRS	2669. PASS-HRS
TOTAL TRAV DISTANCE =	7625. VEH-MI.	9486. PASS-MI.	115109. VEH-MI.	143196. PASS-MI.
AVERAGE SYSTEM SPEED =	42. MPH.		62. MPH.	
AVERAGE DENSITY =	20. VPMPL		21. VPMPL	
TOTAL FUEL =	479. GALLONS		6857. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		553. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	269.	60.62	22.96	0.35	2.17	0.38	2.90

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2548.	144.	2548.	2548.	144.	2548.	4100.	0.	0.	0.	.62	62.	20.5	C	13.6	4.8
2	2	1970.	0.	0.	2404.	0.	0.	2404.	4100.	0.	0.	0.	.59	62.	19.4	C	13.6	4.8
3	2	1830.	320.	232.	2724.	320.	232.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	13.6	4.8
4	2	2010.	0.	0.	2492.	0.	0.	2492.	4400.	0.	0.	0.	.57	62.	20.1	C	13.6	4.8
5	3	2445.	740.	448.	3232.	740.	448.	3232.	5445.	155.	0.	0.	.59	62.	17.4	B	13.6	4.8
6	2	1890.	0.	0.	2784.	0.	0.	2784.	4400.	0.	0.	0.	.63	62.	22.5	C	13.6	4.8
7	3	5320.	492.	724.	3276.	492.	724.	3276.	5600.	0.	0.	0.	.59	62.	17.6	B	13.6	4.8
8	2	880.	0.	0.	2552.	0.	0.	2552.	4400.	0.	0.	0.	.58	62.	20.6	C	14.9	4.8
9	2	1125.	148.	0.	2700.	148.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	19.9	4.8
10	3	6320.	420.	392.	3120.	420.	392.	3120.	5600.	0.	0.	0.	.56	62.	16.8	B	19.9	4.8
11	2	2050.	0.	0.	2728.	0.	0.	2728.	4100.	0.	0.	0.	.67	62.	22.0	C	19.9	4.8
12	3	2560.	680.	0.	3408.	680.	0.	3408.	5532.	68.	0.	0.	.62	62.	18.3	C	17.2	4.8
13	3	1400.	0.	404.	3408.	0.	404.	3408.	5532.	68.	0.	0.	.62	62.	18.3	C	32.3	4.8
14	2	1320.	0.	0.	3004.	0.	0.	3004.	4400.	0.	0.	0.	.68	62.	24.2	C	14.9	4.8
15	3	540.	728.	1312.	3732.	728.	1312.	3732.	5128.	472.	0.	0.	.73	62.	20.1	C	12.6	4.8
16	2	1230.	0.	0.	2420.	0.	0.	2420.	4400.	0.	0.	0.	.55	62.	19.5	C	19.9	4.8
17	2	890.	452.	0.	2872.	452.	0.	2872.	4400.	0.	0.	0.	.65	62.	23.2	C	19.9	4.8
18	3	4840.	172.	404.	3044.	172.	404.	3044.	5590.	10.	0.	0.	.54	62.	16.4	B	17.2	4.8
19	2	530.	0.	0.	2640.	0.	0.	2640.	3800.	0.	0.	0.	.69	62.	21.3	C	19.9	4.8
20	2	1040.	504.	0.	3144.	504.	0.	3144.	4388.	12.	0.	0.	.72	62.	25.4	C	20.0	4.7
21	3	2810.	548.	788.	3692.	548.	788.	3692.	5527.	73.	0.	0.	.67	62.	19.8	C	24.1	4.8
22	2	1850.	0.	0.	2904.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	17.2	4.8
23	3	2390.	360.	176.	3264.	360.	176.	3264.	5574.	26.	0.	0.	.59	62.	17.5	B	24.1	4.8
24	3	960.	0.	1628.	3088.	0.	1500.	3088.	5600.	0.	0.	0.	.55	62.	16.6	B	17.2	4.8
25	2	1400.	0.	1460.	1460.	0.	1460.	1460.	3600.	0.	0.	0.	.41	62.	11.8	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.73		LOWEST LOS = C	AVG = 62.	19.1		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	120. VEH-HRS	150. PASS-HRS	1983. VEH-HRS	2467. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	71. VEH-HRS	89. PASS-HRS	354. VEH-HRS	441. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	192. VEH-HRS	238. PASS-HRS	2337. VEH-HRS	2907. PASS-HRS
TOTAL TRAV DISTANCE =	7460. VEH-MI.	9280. PASS-MI.	122569. VEH-MI.	152475. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		62. MPH.	
AVERAGE DENSITY =	19. VPMPL		21. VPMPL	
TOTAL FUEL =	469. GALLONS		7326. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		592. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	301.	71.25	26.99	0.41	2.55	0.44	3.41

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2288.	140.	2288.	2288.	140.	2288.	4100.	0.	0.	0.	.56	62.	18.5	C	13.6	4.8
2	2	1970.	0.	0.	2148.	0.	0.	2148.	4100.	0.	0.	0.	.52	62.	17.3	B	13.6	4.8
3	2	1830.	268.	164.	2416.	268.	164.	2416.	4100.	0.	0.	0.	.59	62.	19.5	C	13.6	4.8
4	2	2010.	0.	0.	2252.	0.	0.	2252.	4400.	0.	0.	0.	.51	62.	18.2	C	13.6	4.8
5	3	2445.	676.	468.	2928.	676.	468.	2928.	5474.	126.	0.	0.	.53	62.	15.7	B	13.6	4.8
6	2	1890.	0.	0.	2460.	0.	0.	2460.	4400.	0.	0.	0.	.56	62.	19.8	C	13.6	4.8
7	3	5320.	396.	688.	2856.	396.	688.	2856.	5600.	0.	0.	0.	.51	62.	15.4	B	13.6	4.8
8	2	880.	0.	0.	2168.	0.	0.	2168.	4400.	0.	0.	0.	.49	62.	17.5	B	14.9	4.8
9	2	1125.	120.	0.	2288.	120.	0.	2288.	4400.	0.	0.	0.	.52	62.	18.5	C	19.9	4.8
10	3	6320.	416.	468.	2704.	416.	468.	2704.	5600.	0.	0.	0.	.48	62.	14.5	B	19.9	4.8
11	2	2050.	0.	0.	2236.	0.	0.	2236.	4100.	0.	0.	0.	.55	62.	18.0	C	19.9	4.8
12	3	2560.	708.	0.	2944.	708.	0.	2944.	5538.	62.	0.	0.	.53	62.	15.8	B	17.2	4.8
13	3	1400.	0.	396.	2944.	0.	396.	2944.	5538.	62.	0.	0.	.53	62.	15.8	B	32.3	4.8
14	2	1320.	0.	0.	2548.	0.	0.	2548.	4400.	0.	0.	0.	.58	62.	20.5	C	14.9	4.8
15	3	540.	728.	1272.	3276.	728.	1272.	3276.	5156.	444.	0.	0.	.64	62.	17.6	B	12.6	4.8
16	2	1230.	0.	0.	2004.	0.	0.	2004.	4400.	0.	0.	0.	.46	62.	16.2	B	19.9	4.8
17	2	890.	620.	0.	2624.	620.	0.	2624.	4400.	0.	0.	0.	.60	62.	21.2	C	19.9	4.8
18	3	4840.	120.	544.	2744.	120.	544.	2744.	5600.	0.	0.	0.	.49	62.	14.8	B	17.2	4.8
19	2	530.	0.	0.	2200.	0.	0.	2200.	3800.	0.	0.	0.	.58	62.	17.7	B	19.9	4.8
20	2	1040.	416.	0.	2616.	416.	0.	2616.	4400.	0.	0.	0.	.59	62.	21.1	C	19.9	4.8
21	3	2810.	572.	796.	3188.	572.	796.	3188.	5556.	44.	0.	0.	.57	62.	17.1	B	24.1	4.8
22	2	1850.	0.	0.	2392.	0.	0.	2392.	4400.	0.	0.	0.	.54	62.	19.3	C	17.2	4.8
23	3	2390.	324.	144.	2716.	324.	144.	2716.	5600.	0.	0.	0.	.48	62.	14.6	B	24.1	4.8
24	3	960.	0.	1348.	2572.	0.	1500.	2572.	5600.	0.	0.	0.	.46	62.	13.8	B	17.2	4.8
25	2	1400.	0.	1224.	1224.	0.	1224.	1224.	3600.	0.	0.	0.	.34	62.	9.9	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.64		LOWEST LOS = C	AVG = 62.	16.6		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	105. VEH-HRS	130. PASS-HRS	2088. VEH-HRS	2597. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	70. VEH-HRS	88. PASS-HRS	425. VEH-HRS	528. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	175. VEH-HRS	218. PASS-HRS	2512. VEH-HRS	3125. PASS-HRS
TOTAL TRAV DISTANCE =	6484. VEH-MI.	8065. PASS-MI.	129052. VEH-MI.	160541. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		62. MPH.	
AVERAGE DENSITY =	17. VPMPL		21. VPMPL	
TOTAL FUEL =	413. GALLONS		7739. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		627. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	263.	70.50	26.70	0.41	2.52	0.44	3.37

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1848.	144.	1848.	1848.	144.	1848.	4100.	0.	0.	0.	.45	62.	14.9	B	13.6	4.8
2	2	1970.	0.	0.	1704.	0.	0.	1704.	4100.	0.	0.	0.	.42	62.	13.7	B	13.6	4.8
3	2	1830.	256.	188.	1960.	256.	188.	1960.	4100.	0.	0.	0.	.48	62.	15.8	B	13.6	4.8
4	2	2010.	0.	0.	1772.	0.	0.	1772.	4400.	0.	0.	0.	.40	62.	14.3	B	13.6	4.8
5	3	2445.	528.	396.	2300.	528.	396.	2300.	5600.	0.	0.	0.	.41	62.	12.4	B	13.6	4.8
6	2	1890.	0.	0.	1904.	0.	0.	1904.	4400.	0.	0.	0.	.43	62.	15.4	B	13.6	4.8
7	3	5320.	392.	448.	2296.	392.	448.	2296.	5600.	0.	0.	0.	.41	62.	12.3	B	13.6	4.8
8	2	880.	0.	0.	1848.	0.	0.	1848.	4400.	0.	0.	0.	.42	62.	14.9	B	14.9	4.8
9	2	1125.	108.	0.	1956.	108.	0.	1956.	4400.	0.	0.	0.	.44	62.	15.8	B	19.9	4.8
10	3	6320.	364.	260.	2320.	364.	260.	2320.	5600.	0.	0.	0.	.41	62.	12.5	B	19.9	4.8
11	2	2050.	0.	0.	2060.	0.	0.	2060.	4100.	0.	0.	0.	.50	62.	16.6	B	19.9	4.8
12	3	2560.	592.	0.	2652.	592.	0.	2652.	5558.	42.	0.	0.	.48	62.	14.3	B	17.2	4.8
13	3	1400.	0.	372.	2652.	0.	372.	2652.	5558.	42.	0.	0.	.48	62.	14.3	B	32.3	4.8
14	2	1320.	0.	0.	2280.	0.	0.	2280.	4400.	0.	0.	0.	.52	62.	18.4	C	14.9	4.8
15	3	540.	652.	1016.	2932.	652.	1016.	2932.	5176.	424.	0.	0.	.57	62.	15.8	B	12.6	4.8
16	2	1230.	0.	0.	1916.	0.	0.	1916.	4400.	0.	0.	0.	.44	62.	15.5	B	19.9	4.8
17	2	890.	596.	0.	2512.	596.	0.	2512.	4400.	0.	0.	0.	.57	62.	20.3	C	19.9	4.8
18	3	4840.	120.	436.	2632.	120.	436.	2632.	5600.	0.	0.	0.	.47	62.	14.2	B	17.2	4.8
19	2	530.	0.	0.	2196.	0.	0.	2196.	3800.	0.	0.	0.	.58	62.	17.7	B	19.9	4.8
20	2	1040.	392.	0.	2588.	392.	0.	2588.	4400.	0.	0.	0.	.59	62.	20.9	C	19.9	4.8
21	3	2810.	440.	732.	3028.	440.	732.	3028.	5579.	21.	0.	0.	.54	62.	16.3	B	24.1	4.8
22	2	1850.	0.	0.	2296.	0.	0.	2296.	4400.	0.	0.	0.	.52	62.	18.5	C	17.2	4.8
23	3	2390.	272.	112.	2568.	272.	112.	2568.	5600.	0.	0.	0.	.46	62.	13.8	B	24.1	4.8
24	3	960.	0.	1412.	2456.	0.	1500.	2456.	5600.	0.	0.	0.	.44	62.	13.2	B	17.2	4.8
25	2	1400.	0.	1044.	1044.	0.	1044.	1044.	3600.	0.	0.	0.	.29	62.	8.4	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.59		LOWEST LOS = C	AVG = 62.	14.5		17.0	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	92. VEH-HRS	114. PASS-HRS	2179. VEH-HRS	2711. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	63. VEH-HRS	78. PASS-HRS	488. VEH-HRS	607. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	155. VEH-HRS	192. PASS-HRS	2667. VEH-HRS	3317. PASS-HRS
TOTAL TRAV DISTANCE =	5679. VEH-MI.	7064. PASS-MI.	134731. VEH-MI.	167605. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		62. MPH.	
AVERAGE DENSITY =	14. VPMPL		20. VPMPL	
TOTAL FUEL =	358. GALLONS		8097. GALLONS	
TOTAL EMISSIONS =	30. KILOGRAMS		657. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	241.	63.00	23.86	0.37	2.25	0.39	3.01

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1944.	100.	1944.	1944.	100.	1944.	4100.	0.	0.	0.	.47	62.	15.7	B	13.6	4.8
2	2	1970.	0.	0.	1844.	0.	0.	1844.	4100.	0.	0.	0.	.45	62.	14.9	B	13.6	4.8
3	2	1830.	252.	128.	2096.	252.	128.	2096.	4100.	0.	0.	0.	.51	62.	16.9	B	13.6	4.8
4	2	2010.	0.	0.	1968.	0.	0.	1968.	4400.	0.	0.	0.	.45	62.	15.9	B	13.6	4.8
5	3	2445.	440.	412.	2408.	440.	412.	2408.	5600.	0.	0.	0.	.43	62.	12.9	B	13.6	4.8
6	2	1890.	0.	0.	1996.	0.	0.	1996.	4400.	0.	0.	0.	.45	62.	16.1	B	13.6	4.8
7	3	5320.	308.	576.	2304.	308.	576.	2304.	5600.	0.	0.	0.	.41	62.	12.4	B	13.6	4.8
8	2	880.	0.	0.	1728.	0.	0.	1728.	4400.	0.	0.	0.	.39	62.	13.9	B	14.9	4.8
9	2	1125.	132.	0.	1860.	132.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
10	3	6320.	376.	352.	2236.	376.	352.	2236.	5600.	0.	0.	0.	.40	62.	12.0	B	19.9	4.8
11	2	2050.	0.	0.	1884.	0.	0.	1884.	4100.	0.	0.	0.	.46	62.	15.2	B	19.9	4.8
12	3	2560.	516.	0.	2400.	516.	0.	2400.	5576.	24.	0.	0.	.43	62.	12.9	B	17.2	4.8
13	3	1400.	0.	280.	2400.	0.	280.	2400.	5576.	24.	0.	0.	.43	62.	12.9	B	32.3	4.8
14	2	1320.	0.	0.	2120.	0.	0.	2120.	4400.	0.	0.	0.	.48	62.	17.1	B	14.9	4.8
15	3	540.	656.	1000.	2776.	656.	1000.	2776.	5180.	420.	0.	0.	.54	62.	14.9	B	12.6	4.8
16	2	1230.	0.	0.	1776.	0.	0.	1776.	4400.	0.	0.	0.	.40	62.	14.3	B	19.9	4.8
17	2	890.	560.	0.	2336.	560.	0.	2336.	4400.	0.	0.	0.	.53	62.	18.8	C	19.9	4.8
18	3	4840.	192.	412.	2528.	192.	412.	2528.	5600.	0.	0.	0.	.45	62.	13.6	B	17.2	4.8
19	2	530.	0.	0.	2116.	0.	0.	2116.	3800.	0.	0.	0.	.56	62.	17.1	B	19.9	4.8
20	2	1040.	408.	0.	2524.	408.	0.	2524.	4400.	0.	0.	0.	.57	62.	20.4	C	19.9	4.8
21	3	2810.	456.	736.	2980.	456.	736.	2980.	5582.	18.	0.	0.	.53	62.	16.0	B	24.1	4.8
22	2	1850.	0.	0.	2244.	0.	0.	2244.	4400.	0.	0.	0.	.51	62.	18.1	C	17.2	4.8
23	3	2390.	232.	108.	2476.	232.	108.	2476.	5600.	0.	0.	0.	.44	62.	13.3	B	24.1	4.8
24	3	960.	0.	1240.	2368.	0.	1500.	2368.	5600.	0.	0.	0.	.42	62.	12.7	B	17.2	4.8
25	2	1400.	0.	1128.	1128.	0.	1128.	1128.	3600.	0.	0.	0.	.31	62.	9.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES									MAX(V/C) = 0.57	LOWEST LOS = C	AVG = 62.	14.3		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	90. VEH-HRS	112. PASS-HRS	2269. VEH-HRS	2823. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	52. VEH-HRS	65. PASS-HRS	540. VEH-HRS	671. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	142. VEH-HRS	177. PASS-HRS	2809. VEH-HRS	3494. PASS-HRS
TOTAL TRAV DISTANCE =	5582. VEH-MI.	6944. PASS-MI.	140313. VEH-MI.	174550. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		62. MPH.	
AVERAGE DENSITY =	14. VPMPL		20. VPMPL	
TOTAL FUEL =	350. GALLONS		8447. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		686. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	176.	52.12	19.74	0.30	1.87	0.33	2.49

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1748.	108.	1748.	1748.	108.	1748.	4100.	0.	0.	0.	.43	62.	14.1	B	13.6	4.8
2	2	1970.	0.	0.	1640.	0.	0.	1640.	4100.	0.	0.	0.	.40	62.	13.2	B	13.6	4.8
3	2	1830.	280.	128.	1920.	280.	128.	1920.	4100.	0.	0.	0.	.47	62.	15.5	B	13.6	4.8
4	2	2010.	0.	0.	1792.	0.	0.	1792.	4400.	0.	0.	0.	.41	62.	14.5	B	13.6	4.8
5	3	2445.	488.	396.	2280.	488.	396.	2280.	5600.	0.	0.	0.	.41	62.	12.3	B	13.6	4.8
6	2	1890.	0.	0.	1884.	0.	0.	1884.	4400.	0.	0.	0.	.43	62.	15.2	B	13.6	4.8
7	3	5320.	356.	456.	2240.	356.	456.	2240.	5600.	0.	0.	0.	.40	62.	12.0	B	13.6	4.8
8	2	880.	0.	0.	1784.	0.	0.	1784.	4400.	0.	0.	0.	.41	62.	14.4	B	14.9	4.8
9	2	1125.	200.	0.	1984.	200.	0.	1984.	4400.	0.	0.	0.	.45	62.	16.0	B	19.9	4.8
10	3	6320.	280.	284.	2264.	280.	284.	2264.	5600.	0.	0.	0.	.40	62.	12.2	B	19.9	4.8
11	2	2050.	0.	0.	1980.	0.	0.	1980.	4100.	0.	0.	0.	.48	62.	16.0	B	19.9	4.8
12	3	2560.	468.	0.	2448.	468.	0.	2448.	5571.	29.	0.	0.	.44	62.	13.2	B	17.2	4.8
13	3	1400.	0.	324.	2448.	0.	324.	2448.	5571.	29.	0.	0.	.44	62.	13.2	B	32.3	4.8
14	2	1320.	0.	0.	2124.	0.	0.	2124.	4400.	0.	0.	0.	.48	62.	17.1	B	14.9	4.8
15	3	540.	568.	1004.	2692.	568.	1004.	2692.	5244.	356.	0.	0.	.51	62.	14.5	B	12.6	4.8
16	2	1230.	0.	0.	1688.	0.	0.	1688.	4400.	0.	0.	0.	.38	62.	13.6	B	19.9	4.8
17	2	890.	540.	0.	2228.	540.	0.	2228.	4400.	0.	0.	0.	.51	62.	18.0	B	19.9	4.8
18	3	4840.	200.	380.	2428.	200.	380.	2428.	5600.	0.	0.	0.	.43	62.	13.1	B	17.2	4.8
19	2	530.	0.	0.	2048.	0.	0.	2048.	3800.	0.	0.	0.	.54	62.	16.5	B	19.9	4.8
20	2	1040.	300.	0.	2348.	300.	0.	2348.	4400.	0.	0.	0.	.53	62.	18.9	C	19.9	4.8
21	3	2810.	372.	576.	2720.	372.	576.	2720.	5588.	12.	0.	0.	.49	62.	14.6	B	24.1	4.8
22	2	1850.	0.	0.	2144.	0.	0.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	17.2	4.8
23	3	2390.	244.	124.	2388.	244.	124.	2388.	5600.	0.	0.	0.	.43	62.	12.8	B	24.1	4.8
24	3	960.	0.	1016.	2264.	0.	1500.	2264.	5600.	0.	0.	0.	.40	62.	12.2	B	17.2	4.8
25	2	1400.	0.	1248.	1248.	0.	1248.	1248.	3600.	0.	0.	0.	.35	62.	10.1	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.54 LOWEST LOS = C AVG = 62. 13.8 16.9 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	87. VEH-HRS	108. PASS-HRS	2356. VEH-HRS	2931. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	29. VEH-HRS	36. PASS-HRS	569. VEH-HRS	707. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	116. VEH-HRS	144. PASS-HRS	2925. VEH-HRS	3639. PASS-HRS
TOTAL TRAV DISTANCE =	5400. VEH-MI.	6717. PASS-MI.	145713. VEH-MI.	181267. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		62. MPH.	
AVERAGE DENSITY =	14. VPMPL		20. VPMPL	
TOTAL FUEL =	330. GALLONS		8777. GALLONS	
TOTAL EMISSIONS =	27. KILOGRAMS		713. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	55.	28.87	10.94	0.17	1.03	0.18	1.38

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1632.	76.	1632.	1632.	76.	1632.	4100.	0.	0.	0.	.40	62.	13.2	B	13.6	4.8
2	2	1970.	0.	0.	1556.	0.	0.	1556.	4100.	0.	0.	0.	.38	62.	12.5	B	13.6	4.8
3	2	1830.	236.	156.	1792.	236.	156.	1792.	4100.	0.	0.	0.	.44	62.	14.5	B	13.6	4.8
4	2	2010.	0.	0.	1636.	0.	0.	1636.	4400.	0.	0.	0.	.37	62.	13.2	B	13.6	4.8
5	3	2445.	312.	328.	1948.	312.	328.	1948.	5600.	0.	0.	0.	.35	62.	10.5	A	13.6	4.8
6	2	1890.	0.	0.	1620.	0.	0.	1620.	4400.	0.	0.	0.	.37	62.	13.1	B	13.6	4.8
7	3	5320.	408.	476.	2028.	408.	476.	2028.	5600.	0.	0.	0.	.36	62.	10.9	A	13.6	4.8
8	2	880.	0.	0.	1552.	0.	0.	1552.	4400.	0.	0.	0.	.35	62.	12.5	B	14.9	4.8
9	2	1125.	144.	0.	1696.	144.	0.	1696.	4400.	0.	0.	0.	.39	62.	13.7	B	19.9	4.8
10	3	6320.	312.	384.	2008.	312.	384.	2008.	5600.	0.	0.	0.	.36	62.	10.8	A	19.9	4.8
11	2	2050.	0.	0.	1624.	0.	0.	1624.	4100.	0.	0.	0.	.40	62.	13.1	B	19.9	4.8
12	3	2560.	412.	0.	2036.	412.	0.	2036.	5600.	0.	0.	0.	.36	62.	10.9	A	17.2	4.8
13	3	1400.	0.	384.	2036.	0.	384.	2036.	5600.	0.	0.	0.	.36	62.	10.9	A	32.3	4.8
14	2	1320.	0.	0.	1652.	0.	0.	1652.	4400.	0.	0.	0.	.38	62.	13.3	B	14.9	4.8
15	3	540.	688.	868.	2340.	688.	868.	2340.	5168.	432.	0.	0.	.45	62.	12.6	B	12.6	4.8
16	2	1230.	0.	0.	1472.	0.	0.	1472.	4400.	0.	0.	0.	.33	62.	11.9	B	19.9	4.8
17	2	890.	496.	0.	1968.	496.	0.	1968.	4400.	0.	0.	0.	.45	62.	15.9	B	19.9	4.8
18	3	4840.	192.	332.	2160.	192.	332.	2160.	5600.	0.	0.	0.	.39	62.	11.6	B	17.2	4.8
19	2	530.	0.	0.	1828.	0.	0.	1828.	3800.	0.	0.	0.	.48	62.	14.7	B	19.9	4.8
20	2	1040.	304.	0.	2132.	304.	0.	2132.	4400.	0.	0.	0.	.48	62.	17.2	B	19.9	4.8
21	3	2810.	372.	732.	2504.	372.	732.	2504.	5600.	0.	0.	0.	.45	62.	13.5	B	24.1	4.8
22	2	1850.	0.	0.	1772.	0.	0.	1772.	4400.	0.	0.	0.	.40	62.	14.3	B	17.2	4.8
23	3	2390.	192.	96.	1964.	192.	96.	1964.	5600.	0.	0.	0.	.35	62.	10.6	A	24.1	4.8
24	3	960.	0.	1132.	1868.	0.	1132.	1868.	5600.	0.	0.	0.	.33	62.	10.0	A	17.2	4.8
25	2	1400.	0.	736.	736.	0.	736.	736.	3600.	0.	0.	0.	.20	62.	5.9	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.48		LOWEST LOS = B	AVG = 62.	12.0		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	76. VEH-HRS	95. PASS-HRS	2432. VEH-HRS	3026. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	7. VEH-HRS	9. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	83. VEH-HRS	103. PASS-HRS	3008. VEH-HRS	3742. PASS-HRS
TOTAL TRAV DISTANCE =	4717. VEH-MI.	5868. PASS-MI.	150430. VEH-MI.	187135. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		62. MPH.	
AVERAGE DENSITY =	12. VPMPL		19. VPMPL	
TOTAL FUEL =	282. GALLONS		9059. GALLONS	
TOTAL EMISSIONS =	23. KILOGRAMS		736. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	0.	6.87	2.60	0.04	0.25	0.04	0.33

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1188.	68.	1188.	1188.	68.	1188.	4100.	0.	0.	0.	.29	62.	9.6	A	13.6	4.8
2	2	1970.	0.	0.	1120.	0.	0.	1120.	4100.	0.	0.	0.	.27	62.	9.0	A	13.6	4.8
3	2	1830.	240.	108.	1360.	240.	108.	1360.	4100.	0.	0.	0.	.33	62.	11.0	A	13.6	4.8
4	2	2010.	0.	0.	1252.	0.	0.	1252.	4400.	0.	0.	0.	.28	62.	10.1	A	13.6	4.8
5	3	2445.	328.	388.	1580.	328.	388.	1580.	5600.	0.	0.	0.	.28	62.	8.5	A	13.6	4.8
6	2	1890.	0.	0.	1192.	0.	0.	1192.	4400.	0.	0.	0.	.27	62.	9.6	A	13.6	4.8
7	3	5320.	540.	364.	1732.	540.	364.	1732.	5600.	0.	0.	0.	.31	62.	9.3	A	13.6	4.8
8	2	880.	0.	0.	1368.	0.	0.	1368.	4400.	0.	0.	0.	.31	62.	11.0	B	14.9	4.8
9	2	1125.	116.	0.	1484.	116.	0.	1484.	4400.	0.	0.	0.	.34	62.	12.0	B	19.9	4.8
10	3	6320.	304.	304.	1788.	304.	304.	1788.	5600.	0.	0.	0.	.32	62.	9.6	A	19.9	4.8
11	2	2050.	0.	0.	1484.	0.	0.	1484.	4100.	0.	0.	0.	.36	62.	12.0	B	19.9	4.8
12	3	2560.	556.	0.	2040.	556.	0.	2040.	5600.	0.	0.	0.	.36	62.	11.0	A	17.2	4.8
13	3	1400.	0.	304.	2040.	0.	304.	2040.	5600.	0.	0.	0.	.36	62.	11.0	A	32.3	4.8
14	2	1320.	0.	0.	1736.	0.	0.	1736.	4400.	0.	0.	0.	.39	62.	14.0	B	14.9	4.8
15	3	540.	616.	1008.	2352.	616.	1008.	2352.	5248.	352.	0.	0.	.45	62.	12.6	B	12.6	4.8
16	2	1230.	0.	0.	1344.	0.	0.	1344.	4400.	0.	0.	0.	.31	62.	10.8	A	19.9	4.8
17	2	890.	640.	0.	1984.	640.	0.	1984.	4400.	0.	0.	0.	.45	62.	16.0	B	19.9	4.8
18	3	4840.	128.	384.	2112.	128.	384.	2112.	5600.	0.	0.	0.	.38	62.	11.4	B	17.2	4.8
19	2	530.	0.	0.	1728.	0.	0.	1728.	3800.	0.	0.	0.	.45	62.	13.9	B	19.9	4.8
20	2	1040.	256.	0.	1984.	256.	0.	1984.	4400.	0.	0.	0.	.45	62.	16.0	B	19.9	4.8
21	3	2810.	376.	556.	2360.	376.	556.	2360.	5600.	0.	0.	0.	.42	62.	12.7	B	24.1	4.8
22	2	1850.	0.	0.	1804.	0.	0.	1804.	4400.	0.	0.	0.	.41	62.	14.5	B	17.2	4.8
23	3	2390.	220.	112.	2024.	220.	112.	2024.	5600.	0.	0.	0.	.36	62.	10.9	A	24.1	4.8
24	3	960.	0.	1036.	1912.	0.	1036.	1912.	5600.	0.	0.	0.	.34	62.	10.3	A	17.2	4.8
25	2	1400.	0.	876.	876.	0.	876.	876.	3600.	0.	0.	0.	.24	62.	7.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.45		LOWEST LOS = B	AVG = 62.	10.8		17.1	4.8

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 21 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	69. VEH-HRS	85. PASS-HRS	2501. VEH-HRS	3111. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	69. VEH-HRS	85. PASS-HRS	3077. VEH-HRS	3827. PASS-HRS
TOTAL TRAV DISTANCE =	4258. VEH-MI.	5297. PASS-MI.	154688. VEH-MI.	192432. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	11. VPMPL		19. VPMPL	
TOTAL FUEL =	248. GALLONS		9307. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		757. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1192.	60.	1192.	1192.	60.	1192.	4100.	0.	0.	0.	.29	62.	9.6	A	13.6	4.8
2	2	1970.	0.	0.	1132.	0.	0.	1132.	4100.	0.	0.	0.	.28	62.	9.1	A	13.6	4.8
3	2	1830.	164.	96.	1296.	164.	96.	1296.	4100.	0.	0.	0.	.32	62.	10.5	A	13.6	4.8
4	2	2010.	0.	0.	1200.	0.	0.	1200.	4400.	0.	0.	0.	.27	62.	9.7	A	13.6	4.8
5	3	2445.	252.	232.	1452.	252.	232.	1452.	5600.	0.	0.	0.	.26	62.	7.8	A	13.6	4.8
6	2	1890.	0.	0.	1220.	0.	0.	1220.	4400.	0.	0.	0.	.28	62.	9.8	A	13.6	4.8
7	3	5320.	288.	320.	1508.	288.	320.	1508.	5600.	0.	0.	0.	.27	62.	8.1	A	13.6	4.8
8	2	880.	0.	0.	1188.	0.	0.	1188.	4400.	0.	0.	0.	.27	62.	9.6	A	14.9	4.8
9	2	1125.	188.	0.	1376.	188.	0.	1376.	4400.	0.	0.	0.	.31	62.	11.1	B	19.9	4.8
10	3	6320.	332.	240.	1708.	332.	240.	1708.	5600.	0.	0.	0.	.30	62.	9.2	A	19.9	4.8
11	2	2050.	0.	0.	1468.	0.	0.	1468.	4100.	0.	0.	0.	.36	62.	11.8	B	19.9	4.8
12	3	2560.	524.	0.	1992.	524.	0.	1992.	5600.	0.	0.	0.	.36	62.	10.7	A	17.2	4.8
13	3	1400.	0.	232.	1992.	0.	232.	1992.	5600.	0.	0.	0.	.36	62.	10.7	A	32.3	4.8
14	2	1320.	0.	0.	1760.	0.	0.	1760.	4400.	0.	0.	0.	.40	62.	14.2	B	14.9	4.8
15	3	540.	528.	788.	2288.	528.	788.	2288.	5252.	348.	0.	0.	.44	62.	12.3	B	12.6	4.8
16	2	1230.	0.	0.	1500.	0.	0.	1500.	4400.	0.	0.	0.	.34	62.	12.1	B	19.9	4.8
17	2	890.	588.	0.	2088.	588.	0.	2088.	4400.	0.	0.	0.	.47	62.	16.8	B	19.9	4.8
18	3	4840.	196.	416.	2284.	196.	416.	2284.	5600.	0.	0.	0.	.41	62.	12.3	B	17.2	4.8
19	2	530.	0.	0.	1868.	0.	0.	1868.	3800.	0.	0.	0.	.49	62.	15.1	B	19.9	4.8
20	2	1040.	276.	0.	2144.	276.	0.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	19.9	4.8
21	3	2810.	356.	644.	2500.	356.	644.	2500.	5600.	0.	0.	0.	.45	62.	13.4	B	24.1	4.8
22	2	1850.	0.	0.	1856.	0.	0.	1856.	4400.	0.	0.	0.	.42	62.	15.0	B	17.2	4.8
23	3	2390.	228.	68.	2084.	228.	68.	2084.	5600.	0.	0.	0.	.37	62.	11.2	B	24.1	4.8
24	3	960.	0.	908.	2016.	0.	908.	2016.	5600.	0.	0.	0.	.36	62.	10.8	A	17.2	4.8
25	2	1400.	0.	1108.	1108.	0.	1108.	1108.	3600.	0.	0.	0.	.31	62.	8.9	A	19.9	4.8
TOTAL		53000. =	10.0 MILES							MAX(V/C) = 0.49	LOWEST LOS = B		AVG = 62.		10.8		17.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	68. VEH-HRS	85. PASS-HRS	2570. VEH-HRS	3197. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	68. VEH-HRS	85. PASS-HRS	3145. VEH-HRS	3912. PASS-HRS
TOTAL TRAV DISTANCE =	4247. VEH-MI.	5283. PASS-MI.	158935. VEH-MI.	197715. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	11. VPMPL		19. VPMPL	
TOTAL FUEL =	246. GALLONS		9553. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		777. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	872.	76.	872.	872.	76.	872.	4100.	0.	0.	0.	.21	62.	7.0	A	13.6	4.8
2	2	1970.	0.	0.	796.	0.	0.	796.	4100.	0.	0.	0.	.19	62.	6.4	A	13.6	4.8
3	2	1830.	164.	56.	960.	164.	56.	960.	4100.	0.	0.	0.	.23	62.	7.7	A	13.6	4.8
4	2	2010.	0.	0.	904.	0.	0.	904.	4400.	0.	0.	0.	.21	62.	7.3	A	13.6	4.8
5	3	2445.	312.	156.	1216.	312.	156.	1216.	5600.	0.	0.	0.	.22	62.	6.5	A	13.6	4.8
6	2	1890.	0.	0.	1060.	0.	0.	1060.	4400.	0.	0.	0.	.24	62.	8.5	A	13.6	4.8
7	3	5320.	356.	352.	1416.	356.	352.	1416.	5600.	0.	0.	0.	.25	62.	7.6	A	13.6	4.8
8	2	880.	0.	0.	1064.	0.	0.	1064.	4400.	0.	0.	0.	.24	62.	8.6	A	14.9	4.8
9	2	1125.	152.	0.	1216.	152.	0.	1216.	4400.	0.	0.	0.	.28	62.	9.8	A	19.9	4.8
10	3	6320.	284.	172.	1500.	284.	172.	1500.	5600.	0.	0.	0.	.27	62.	8.1	A	19.9	4.8
11	2	2050.	0.	0.	1328.	0.	0.	1328.	4100.	0.	0.	0.	.32	62.	10.7	A	19.9	4.8
12	3	2560.	404.	0.	1732.	404.	0.	1732.	5600.	0.	0.	0.	.31	62.	9.3	A	17.2	4.8
13	3	1400.	0.	240.	1732.	0.	240.	1732.	5600.	0.	0.	0.	.31	62.	9.3	A	32.3	4.8
14	2	1320.	0.	0.	1492.	0.	0.	1492.	4400.	0.	0.	0.	.34	62.	12.0	B	14.9	4.8
15	3	540.	560.	812.	2052.	560.	812.	2052.	5260.	340.	0.	0.	.39	62.	11.0	B	12.6	4.8
16	2	1230.	0.	0.	1240.	0.	0.	1240.	4400.	0.	0.	0.	.28	62.	10.0	A	19.9	4.8
17	2	890.	420.	0.	1660.	420.	0.	1660.	4400.	0.	0.	0.	.38	62.	13.4	B	19.9	4.8
18	3	4840.	168.	288.	1828.	168.	288.	1828.	5600.	0.	0.	0.	.33	62.	9.8	A	17.2	4.8
19	2	530.	0.	0.	1540.	0.	0.	1540.	3800.	0.	0.	0.	.41	62.	12.4	B	19.9	4.8
20	2	1040.	300.	0.	1840.	300.	0.	1840.	4400.	0.	0.	0.	.42	62.	14.8	B	19.9	4.8
21	3	2810.	260.	616.	2100.	260.	616.	2100.	5600.	0.	0.	0.	.37	62.	11.3	B	24.1	4.8
22	2	1850.	0.	0.	1484.	0.	0.	1484.	4400.	0.	0.	0.	.34	62.	12.0	B	17.2	4.8
23	3	2390.	212.	68.	1696.	212.	68.	1696.	5600.	0.	0.	0.	.30	62.	9.1	A	24.1	4.8
24	3	960.	0.	864.	1628.	0.	864.	1628.	5600.	0.	0.	0.	.29	62.	8.8	A	17.2	4.8
25	2	1400.	0.	764.	764.	0.	764.	764.	3600.	0.	0.	0.	.21	62.	6.2	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.42		LOWEST LOS = B	AVG = 62.	9.0		17.3	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	57. VEH-HRS	71. PASS-HRS	2627. VEH-HRS	3268. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	57. VEH-HRS	71. PASS-HRS	3202. VEH-HRS	3984. PASS-HRS
TOTAL TRAV DISTANCE =	3550. VEH-MI.	4416. PASS-MI.	162484. VEH-MI.	202131. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	9. VPMPL		18. VPMPL	
TOTAL FUEL =	205. GALLONS		9758. GALLONS	
TOTAL EMISSIONS =	17. KILOGRAMS		794. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	900.	60.	900.	900.	60.	900.	4100.	0.	0.	0.	.22	62.	7.3	A	13.6	4.8
2	2	1970.	0.	0.	840.	0.	0.	840.	4100.	0.	0.	0.	.20	62.	6.8	A	13.6	4.8
3	2	1830.	112.	64.	952.	112.	64.	952.	4100.	0.	0.	0.	.23	62.	7.7	A	13.6	4.8
4	2	2010.	0.	0.	888.	0.	0.	888.	4400.	0.	0.	0.	.20	62.	7.2	A	13.6	4.8
5	3	2445.	132.	192.	1020.	132.	192.	1020.	5600.	0.	0.	0.	.18	62.	5.5	A	13.6	4.8
6	2	1890.	0.	0.	828.	0.	0.	828.	4400.	0.	0.	0.	.19	62.	6.7	A	13.6	4.8
7	3	5320.	288.	248.	1116.	288.	248.	1116.	5600.	0.	0.	0.	.20	62.	6.0	A	13.6	4.8
8	2	880.	0.	0.	868.	0.	0.	868.	4400.	0.	0.	0.	.20	62.	7.0	A	14.9	4.8
9	2	1125.	104.	0.	972.	104.	0.	972.	4400.	0.	0.	0.	.22	62.	7.8	A	19.9	4.8
10	3	6320.	152.	144.	1124.	152.	144.	1124.	5600.	0.	0.	0.	.20	62.	6.0	A	19.9	4.8
11	2	2050.	0.	0.	980.	0.	0.	980.	4100.	0.	0.	0.	.24	62.	7.9	A	19.9	4.8
12	3	2560.	408.	0.	1388.	408.	0.	1388.	5600.	0.	0.	0.	.25	62.	7.5	A	17.2	4.8
13	3	1400.	0.	220.	1388.	0.	220.	1388.	5600.	0.	0.	0.	.25	62.	7.5	A	32.3	4.8
14	2	1320.	0.	0.	1168.	0.	0.	1168.	4400.	0.	0.	0.	.27	62.	9.4	A	14.9	4.8
15	3	540.	460.	648.	1628.	460.	648.	1628.	5324.	276.	0.	0.	.31	62.	8.8	A	12.6	4.8
16	2	1230.	0.	0.	980.	0.	0.	980.	4400.	0.	0.	0.	.22	62.	7.9	A	19.9	4.8
17	2	890.	412.	0.	1392.	412.	0.	1392.	4400.	0.	0.	0.	.32	62.	11.2	B	19.9	4.8
18	3	4840.	116.	192.	1508.	116.	192.	1508.	5600.	0.	0.	0.	.27	62.	8.1	A	17.2	4.8
19	2	530.	0.	0.	1316.	0.	0.	1316.	3800.	0.	0.	0.	.35	62.	10.6	A	19.9	4.8
20	2	1040.	256.	0.	1572.	256.	0.	1572.	4400.	0.	0.	0.	.36	62.	12.7	B	19.9	4.8
21	3	2810.	224.	484.	1796.	224.	484.	1796.	5600.	0.	0.	0.	.32	62.	9.7	A	24.1	4.8
22	2	1850.	0.	0.	1312.	0.	0.	1312.	4400.	0.	0.	0.	.30	62.	10.6	A	17.2	4.8
23	3	2390.	172.	28.	1484.	172.	28.	1484.	5600.	0.	0.	0.	.26	62.	8.0	A	24.1	4.8
24	3	960.	0.	820.	1456.	0.	820.	1456.	5600.	0.	0.	0.	.26	62.	7.8	A	17.2	4.8
25	2	1400.	0.	636.	636.	0.	636.	636.	3600.	0.	0.	0.	.18	62.	5.1	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.36		LOWEST LOS = B	AVG = 62.	7.5		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	48. VEH-HRS	59. PASS-HRS	2675. VEH-HRS	3327. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	575. VEH-HRS	716. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	48. VEH-HRS	59. PASS-HRS	3250. VEH-HRS	4043. PASS-HRS
TOTAL TRAV DISTANCE =	2960. VEH-MI.	3682. PASS-MI.	165444. VEH-MI.	205813. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		62. MPH.	
AVERAGE DENSITY =	8. VPMPL		18. VPMPL	
TOTAL FUEL =	172. GALLONS		9930. GALLONS	
TOTAL EMISSIONS =	14. KILOGRAMS		808. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	137.	171.	0.	0.	137.	171.	8463.	10529.	61.7	492.	1.	27.	11.	6:00
2	143.	178.	0.	0.	143.	178.	8787.	10931.	61.5	509.	2.	27.	11.	6:15
3	145.	180.	3.	4.	148.	184.	8910.	11084.	60.4	520.	2.	28.	11.	6:30
4	130.	162.	10.	12.	140.	174.	8070.	10039.	57.6	477.	1.	27.	11.	6:45
5	143.	178.	13.	16.	156.	193.	8808.	10957.	56.6	519.	2.	28.	11.	7:00
6	134.	167.	14.	18.	149.	185.	8284.	10305.	55.8	489.	2.	27.	11.	7:15
7	143.	178.	18.	23.	161.	200.	8755.	10891.	54.4	512.	2.	27.	11.	7:30
8	128.	160.	21.	26.	149.	186.	7964.	9908.	53.4	477.	2.	27.	10.	7:45
9	128.	159.	21.	26.	149.	185.	7927.	9861.	53.3	476.	2.	27.	10.	8:00
10	121.	151.	20.	25.	141.	176.	7532.	9370.	53.2	455.	1.	26.	10.	8:15
11	130.	162.	23.	28.	153.	190.	8052.	10017.	52.7	486.	2.	27.	11.	8:30
12	121.	151.	33.	41.	154.	192.	7528.	9365.	48.9	458.	2.	26.	10.	8:45
13	136.	169.	47.	59.	183.	228.	8402.	10452.	45.9	509.	2.	29.	11.	9:00
14	123.	153.	61.	75.	184.	228.	7625.	9486.	41.5	479.	2.	27.	10.	9:15
15	120.	150.	71.	89.	192.	238.	7460.	9280.	38.9	469.	2.	27.	10.	9:30
16	105.	130.	70.	88.	175.	218.	6484.	8065.	37.0	413.	2.	24.	9.	9:45
17	92.	114.	63.	78.	155.	192.	5679.	7064.	36.7	358.	1.	21.	8.	10:00
18	90.	112.	52.	65.	142.	177.	5582.	6944.	39.3	350.	1.	20.	8.	10:15
19	87.	108.	29.	36.	116.	144.	5400.	6717.	46.6	330.	1.	19.	7.	10:30
20	76.	95.	7.	9.	83.	103.	4717.	5868.	56.9	282.	1.	16.	6.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	69.	85.	0.	0.	69.	85.	4258.	5297.	62.0	248.	1.	14.	6.	11:00
22	68.	85.	0.	0.	68.	85.	4247.	5283.	62.0	246.	1.	14.	6.	11:15
23	57.	71.	0.	0.	57.	71.	3550.	4416.	62.0	205.	1.	12.	5.	11:30
24	48.	59.	0.	0.	48.	59.	2960.	3682.	62.0	172.	1.	10.	4.	11:45
TOTAL	2675.	3327.	575.	716.	3250.	4043.	165444.	205813.	61.9	9930.	32.	559.	217.	

Horizon Year (2045) Interim Build
(Aux Lanes Only)
Southbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	752.	0.	752.	752.	0.	752.	3850.	0.	0.	0.	.20	50.	7.5	A	17.4	2.3
2	2	2070.	212.	0.	964.	212.	0.	964.	3850.	0.	0.	0.	.25	50.	9.6	A	15.9	2.3
3	3	2300.	352.	48.	1316.	352.	48.	1316.	5700.	0.	0.	0.	.23	55.	8.0	A	14.0	2.4
4	3	1020.	0.	0.	1268.	0.	0.	1268.	5700.	0.	0.	0.	.22	62.	6.8	A	19.9	4.8
5	3	710.	84.	0.	1352.	84.	0.	1352.	5700.	0.	0.	0.	.24	62.	7.3	A	16.1	4.4
6	3	3820.	68.	188.	1420.	68.	188.	1420.	6150.	0.	0.	0.	.23	62.	7.6	A	17.1	4.8
7	2	1220.	0.	0.	1232.	0.	0.	1232.	4400.	0.	0.	0.	.28	62.	9.9	A	18.2	4.4
8	3	4810.	196.	136.	1428.	196.	136.	1428.	6100.	0.	0.	0.	.23	62.	7.7	A	20.6	4.4
9	2	1370.	0.	0.	1292.	0.	0.	1292.	4000.	0.	0.	0.	.32	62.	10.4	A	23.6	4.4
10	2	660.	84.	0.	1376.	84.	0.	1376.	4398.	2.	0.	0.	.31	62.	11.1	B	23.6	4.4
11	3	790.	200.	100.	1576.	200.	100.	1576.	6098.	2.	0.	0.	.26	62.	8.5	A	30.0	4.4
12	2	1460.	0.	0.	1476.	0.	0.	1476.	4100.	0.	0.	0.	.36	62.	11.9	B	20.6	4.4
13	3	1400.	104.	0.	1580.	104.	0.	1580.	6098.	2.	0.	0.	.26	62.	8.5	A	13.6	4.4
14	3	2600.	0.	36.	1580.	0.	36.	1580.	6098.	2.	0.	0.	.26	62.	8.5	A	20.6	4.4
15	2	2010.	0.	0.	1544.	0.	0.	1544.	3900.	0.	0.	0.	.40	62.	12.5	B	14.7	4.4
16	3	6120.	108.	84.	1652.	108.	84.	1652.	6100.	0.	0.	0.	.27	62.	8.9	A	18.2	4.4
17	2	1240.	0.	0.	1568.	0.	0.	1568.	4300.	0.	0.	0.	.36	62.	12.6	B	18.2	4.4
18	3	930.	56.	0.	1624.	56.	0.	1624.	6100.	0.	0.	0.	.27	62.	8.7	A	20.6	4.4
19	3	5330.	56.	48.	1680.	56.	48.	1680.	6100.	0.	0.	0.	.28	62.	9.0	A	20.6	4.4
20	2	2830.	0.	0.	1632.	0.	0.	1632.	3800.	0.	0.	0.	.43	61.	13.4	B	21.1	3.8
21	3	1660.	144.	132.	1776.	144.	132.	1776.	6100.	0.	0.	0.	.29	61.	9.7	A	21.1	3.8
22	2	2270.	0.	0.	1644.	0.	0.	1644.	4400.	0.	0.	0.	.37	62.	13.3	B	20.6	4.4
23	2	3040.	20.	52.	1664.	20.	52.	1664.	4100.	0.	0.	0.	.41	62.	13.4	B	20.6	4.4
24	2	2190.	0.	0.	1612.	0.	0.	1612.	4200.	0.	0.	0.	.38	65.	12.4	B	19.2	6.1
25	3	2400.	56.	1668.	1668.	56.	1668.	1668.	6150.	0.	0.	0.	.27	65.	8.6	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.43		LOWEST LOS = B	AVG = 61.	9.8		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	74. PASS-HRS	64. VEH-HRS	74. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	74. PASS-HRS	64. VEH-HRS	74. PASS-HRS
TOTAL TRAV DISTANCE =	3947. VEH-MI.	4578. PASS-MI.	3947. VEH-MI.	4578. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	10. VPMPL		10. VPMPL	
TOTAL FUEL =	209. GALLONS		209. GALLONS	
TOTAL EMISSIONS =	17. KILOGRAMS		17. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1080.	0.	1080.	1080.	0.	1080.	3850.	0.	0.	0.	.28	50.	10.8	A	17.4	2.3
2	2	2070.	212.	0.	1292.	212.	0.	1292.	3850.	0.	0.	0.	.34	50.	12.9	B	15.9	2.3
3	3	2300.	524.	56.	1816.	524.	56.	1816.	5700.	0.	0.	0.	.32	55.	11.0	B	14.0	2.4
4	3	1020.	0.	0.	1760.	0.	0.	1760.	5700.	0.	0.	0.	.31	62.	9.5	A	19.9	4.8
5	3	710.	48.	0.	1808.	48.	0.	1808.	5700.	0.	0.	0.	.32	62.	9.7	A	16.1	4.4
6	3	3820.	88.	204.	1896.	88.	204.	1896.	6150.	0.	0.	0.	.31	62.	10.2	A	17.1	4.8
7	2	1220.	0.	0.	1692.	0.	0.	1692.	4400.	0.	0.	0.	.38	62.	13.6	B	18.2	4.4
8	3	4810.	180.	156.	1872.	180.	156.	1872.	6100.	0.	0.	0.	.31	62.	10.1	A	20.6	4.4
9	2	1370.	0.	0.	1716.	0.	0.	1716.	4000.	0.	0.	0.	.43	62.	13.8	B	23.6	4.4
10	2	660.	48.	0.	1764.	48.	0.	1764.	4398.	2.	0.	0.	.40	62.	14.2	B	23.6	4.4
11	3	790.	156.	108.	1920.	156.	108.	1920.	6098.	2.	0.	0.	.31	62.	10.3	A	30.0	4.4
12	2	1460.	0.	0.	1812.	0.	0.	1812.	4100.	0.	0.	0.	.44	62.	14.6	B	20.6	4.4
13	3	1400.	116.	0.	1928.	116.	0.	1928.	6097.	3.	0.	0.	.32	62.	10.4	A	13.6	4.4
14	3	2600.	0.	44.	1928.	0.	44.	1928.	6097.	3.	0.	0.	.32	62.	10.4	A	20.6	4.4
15	2	2010.	0.	0.	1884.	0.	0.	1884.	3900.	0.	0.	0.	.48	62.	15.2	B	14.7	4.4
16	3	6120.	92.	120.	1976.	92.	120.	1976.	6100.	0.	0.	0.	.32	62.	10.6	A	18.2	4.4
17	2	1240.	0.	0.	1856.	0.	0.	1856.	4300.	0.	0.	0.	.43	62.	15.0	B	18.2	4.4
18	3	930.	84.	0.	1940.	84.	0.	1940.	6100.	0.	0.	0.	.32	62.	10.4	A	20.6	4.4
19	3	5330.	80.	72.	2020.	80.	72.	2020.	6100.	0.	0.	0.	.33	62.	10.9	A	20.6	4.4
20	2	2830.	0.	0.	1948.	0.	0.	1948.	3800.	0.	0.	0.	.51	61.	16.0	B	21.1	3.8
21	3	1660.	136.	108.	2084.	136.	108.	2084.	6100.	0.	0.	0.	.34	61.	11.4	B	21.1	3.8
22	2	2270.	0.	0.	1976.	0.	0.	1976.	4400.	0.	0.	0.	.45	62.	15.9	B	20.6	4.4
23	2	3040.	64.	80.	2040.	64.	80.	2040.	4100.	0.	0.	0.	.50	62.	16.5	B	20.6	4.4
24	2	2190.	0.	0.	1960.	0.	0.	1960.	4200.	0.	0.	0.	.47	65.	15.1	B	19.2	6.1
25	3	2400.	72.	2032.	2032.	72.	2032.	2032.	6150.	0.	0.	0.	.33	65.	10.4	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.51		LOWEST LOS = B	AVG = 61.	12.2		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	80. VEH-HRS	93. PASS-HRS	144. VEH-HRS	167. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	80. VEH-HRS	93. PASS-HRS	144. VEH-HRS	167. PASS-HRS
TOTAL TRAV DISTANCE =	4912. VEH-MI.	5698. PASS-MI.	8859. VEH-MI.	10277. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	12. VPMPL		11. VPMPL	
TOTAL FUEL =	261. GALLONS		470. GALLONS	
TOTAL EMISSIONS =	22. KILOGRAMS		39. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1508.	0.	1508.	1508.	0.	1508.	3850.	0.	0.	0.	.39	50.	15.1	B	17.4	2.3
2	2	2070.	292.	0.	1800.	292.	0.	1800.	3850.	0.	0.	0.	.47	50.	18.0	B	15.9	2.3
3	3	2300.	728.	80.	2528.	728.	80.	2528.	5694.	6.	0.	0.	.44	55.	15.3	B	14.0	2.4
4	3	1020.	0.	0.	2448.	0.	0.	2448.	5700.	0.	0.	0.	.43	62.	13.2	B	19.9	4.8
5	3	710.	92.	0.	2540.	92.	0.	2540.	5700.	0.	0.	0.	.45	62.	13.7	B	16.1	4.4
6	3	3820.	128.	380.	2668.	128.	380.	2668.	6150.	0.	0.	0.	.43	62.	14.3	B	17.1	4.8
7	2	1220.	0.	0.	2288.	0.	0.	2288.	4400.	0.	0.	0.	.52	62.	18.5	C	18.2	4.4
8	3	4810.	280.	216.	2568.	280.	216.	2568.	6100.	0.	0.	0.	.42	62.	13.8	B	20.6	4.4
9	2	1370.	0.	0.	2352.	0.	0.	2352.	4000.	0.	0.	0.	.59	62.	19.0	C	23.6	4.4
10	2	660.	100.	0.	2452.	100.	0.	2452.	4398.	2.	0.	0.	.56	62.	19.8	C	23.6	4.4
11	3	790.	336.	152.	2788.	336.	152.	2788.	6058.	42.	0.	0.	.46	62.	15.0	B	30.0	4.4
12	2	1460.	0.	0.	2636.	0.	0.	2636.	4100.	0.	0.	0.	.64	62.	21.3	C	20.6	4.4
13	3	1400.	216.	0.	2852.	216.	0.	2852.	6096.	4.	0.	0.	.47	62.	15.3	B	13.6	4.4
14	3	2600.	0.	72.	2852.	0.	72.	2852.	6096.	4.	0.	0.	.47	62.	15.3	B	20.6	4.4
15	2	2010.	0.	0.	2780.	0.	0.	2780.	3900.	0.	0.	0.	.71	62.	22.4	C	14.7	4.4
16	3	6120.	100.	112.	2880.	100.	112.	2880.	6100.	0.	0.	0.	.47	62.	15.5	B	18.2	4.4
17	2	1240.	0.	0.	2768.	0.	0.	2768.	4300.	0.	0.	0.	.64	62.	22.3	C	18.2	4.4
18	3	930.	136.	0.	2904.	136.	0.	2904.	6100.	0.	0.	0.	.48	62.	15.6	B	20.6	4.4
19	3	5330.	88.	112.	2992.	88.	112.	2992.	6098.	2.	0.	0.	.49	62.	16.1	B	20.6	4.4
20	2	2830.	0.	0.	2880.	0.	0.	2880.	3800.	0.	0.	0.	.76	61.	23.6	C	21.1	3.8
21	3	1660.	144.	176.	3024.	144.	176.	3024.	6100.	0.	0.	0.	.50	61.	16.5	B	21.1	3.8
22	2	2270.	0.	0.	2848.	0.	0.	2848.	4400.	0.	0.	0.	.65	62.	23.0	C	20.6	4.4
23	2	3040.	96.	48.	2944.	96.	48.	2944.	4100.	0.	0.	0.	.72	62.	23.7	C	20.6	4.4
24	2	2190.	0.	0.	2896.	0.	0.	2896.	4200.	0.	0.	0.	.69	65.	22.3	C	19.2	6.1
25	3	2400.	80.	2976.	2976.	80.	2976.	2976.	6150.	0.	0.	0.	.48	65.	15.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES							MAX(V/C) = 0.76	LOWEST LOS = C		AVG = 61.		17.6		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	134. PASS-HRS	260. VEH-HRS	301. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	115. VEH-HRS	134. PASS-HRS	260. VEH-HRS	301. PASS-HRS
TOTAL TRAV DISTANCE =	7083. VEH-MI.	8216. PASS-MI.	15942. VEH-MI.	18493. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		13. VPMPL	
TOTAL FUEL =	376. GALLONS		846. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		70. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2052.	0.	2052.	2052.	0.	2052.	3850.	0.	0.	0.	.53	50.	20.5	C	17.4	2.3
2	2	2070.	392.	0.	2444.	392.	0.	2444.	3847.	3.	0.	0.	.64	50.	24.4	C	15.9	2.3
3	3	2300.	868.	108.	3312.	868.	108.	3312.	5664.	36.	0.	0.	.58	55.	20.1	C	14.0	2.4
4	3	1020.	0.	0.	3204.	0.	0.	3204.	5700.	0.	0.	0.	.56	62.	17.2	B	19.9	4.8
5	3	710.	136.	0.	3340.	136.	0.	3340.	5700.	0.	0.	0.	.59	62.	18.0	B	16.1	4.4
6	3	3820.	248.	636.	3588.	248.	636.	3588.	6150.	0.	0.	0.	.58	62.	19.3	C	17.1	4.8
7	2	1220.	0.	0.	2952.	0.	0.	2952.	4400.	0.	0.	0.	.67	62.	23.8	C	18.2	4.4
8	3	4810.	332.	344.	3284.	332.	344.	3284.	6100.	0.	0.	0.	.54	62.	17.7	B	20.6	4.4
9	2	1370.	0.	0.	2940.	0.	0.	2940.	4000.	0.	0.	0.	.74	62.	23.7	C	23.6	4.4
10	2	660.	108.	0.	3048.	108.	0.	3048.	4395.	5.	0.	0.	.69	62.	24.6	C	23.6	4.4
11	3	790.	360.	344.	3408.	360.	344.	3408.	5832.	268.	0.	0.	.58	62.	18.3	C	30.0	4.4
12	2	1460.	0.	0.	3064.	0.	0.	3064.	4100.	0.	0.	0.	.75	62.	24.7	C	20.6	4.4
13	3	1400.	224.	0.	3288.	224.	0.	3288.	6088.	12.	0.	0.	.54	62.	17.7	B	13.6	4.4
14	3	2600.	0.	204.	3288.	0.	204.	3288.	6088.	12.	0.	0.	.54	62.	17.7	B	20.6	4.4
15	2	2010.	0.	0.	3084.	0.	0.	3084.	3900.	0.	0.	0.	.79	61.	25.2	C	14.9	3.9
16	3	6120.	220.	200.	3304.	220.	200.	3304.	6100.	0.	0.	0.	.54	62.	17.8	B	18.2	4.4
17	2	1240.	0.	0.	3104.	0.	0.	3104.	4300.	0.	0.	0.	.72	62.	25.1	C	18.2	4.3
18	3	930.	176.	0.	3280.	176.	0.	3280.	6100.	0.	0.	0.	.54	62.	17.6	B	20.6	4.4
19	3	5330.	152.	132.	3432.	152.	132.	3432.	6096.	4.	0.	0.	.56	62.	18.5	C	20.6	4.4
20	2	2830.	0.	0.	3300.	0.	0.	3300.	3800.	0.	0.	0.	.87	59.	28.2	D	22.0	2.8
21	3	1660.	328.	364.	3628.	328.	364.	3628.	6100.	0.	0.	0.	.59	61.	19.8	C	21.1	3.8
22	2	2270.	0.	0.	3264.	0.	0.	3264.	4400.	0.	0.	0.	.74	62.	26.4	D	20.7	4.2
23	2	3040.	112.	84.	3376.	112.	84.	3376.	4100.	0.	0.	0.	.82	60.	27.9	D	21.4	3.5
24	2	2190.	0.	0.	3292.	0.	0.	3292.	4200.	0.	0.	0.	.78	64.	25.9	C	19.8	5.3
25	3	2400.	88.	3380.	3380.	88.	3380.	3380.	6150.	0.	0.	0.	.55	65.	17.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.87		LOWEST LOS = D	AVG = 61.	21.1		18.9	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	398. VEH-HRS	462. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	398. VEH-HRS	462. PASS-HRS
TOTAL TRAV DISTANCE =	8464. VEH-MI.	9819. PASS-MI.	24407. VEH-MI.	28312. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		15. VPMPL	
TOTAL FUEL =	447. GALLONS		1293. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		106. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	944.	0.	944.	944.	0.	944.	3850.	0.	0.	0.	.25	50.	9.4	A	17.4	2.3
2	2	2070.	508.	0.	1452.	508.	0.	1452.	3850.	0.	0.	0.	.38	50.	14.5	B	15.9	2.3
3	3	2300.	1064.	160.	2516.	1064.	160.	2516.	5636.	64.	0.	0.	.45	55.	15.2	B	14.0	2.4
4	3	1020.	0.	0.	2356.	0.	0.	2356.	5700.	0.	0.	0.	.41	62.	12.7	B	19.9	4.8
5	3	710.	144.	0.	2500.	144.	0.	2500.	5700.	0.	0.	0.	.44	62.	13.4	B	16.1	4.4
6	3	3820.	348.	556.	2848.	348.	556.	2848.	6150.	0.	0.	0.	.46	62.	15.3	B	17.1	4.8
7	2	1220.	0.	0.	2292.	0.	0.	2292.	4400.	0.	0.	0.	.52	62.	18.5	C	18.2	4.4
8	3	4810.	416.	364.	2708.	416.	364.	2708.	6100.	0.	0.	0.	.44	62.	14.6	B	20.6	4.4
9	2	1370.	0.	0.	2344.	0.	0.	2344.	4000.	0.	0.	0.	.59	62.	18.9	C	23.6	4.4
10	2	660.	120.	0.	2464.	120.	0.	2464.	4393.	7.	0.	0.	.56	62.	19.9	C	23.6	4.4
11	3	790.	548.	444.	3012.	548.	444.	3012.	5727.	373.	0.	0.	.53	62.	16.2	B	30.0	4.4
12	2	1460.	0.	0.	2568.	0.	0.	2568.	4100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
13	3	1400.	324.	0.	2892.	324.	0.	2892.	6076.	24.	0.	0.	.48	62.	15.5	B	13.6	4.4
14	3	2600.	0.	204.	2892.	0.	204.	2892.	6076.	24.	0.	0.	.48	62.	15.5	B	20.6	4.4
15	2	2010.	0.	0.	2688.	0.	0.	2688.	3900.	0.	0.	0.	.69	62.	21.7	C	14.7	4.4
16	3	6120.	236.	284.	2924.	236.	284.	2924.	6100.	0.	0.	0.	.48	62.	15.7	B	18.2	4.4
17	2	1240.	0.	0.	2640.	0.	0.	2640.	4300.	0.	0.	0.	.61	62.	21.3	C	18.2	4.4
18	3	930.	240.	0.	2880.	240.	0.	2880.	6100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
19	3	5330.	208.	224.	3088.	208.	224.	3088.	6096.	4.	0.	0.	.51	62.	16.6	B	20.6	4.4
20	2	2830.	0.	0.	2864.	0.	0.	2864.	3800.	0.	0.	0.	.75	61.	23.5	C	21.1	3.8
21	3	1660.	540.	676.	3404.	540.	676.	3404.	5841.	259.	0.	0.	.58	61.	18.6	C	21.1	3.8
22	2	2270.	0.	0.	2728.	0.	0.	2728.	4400.	0.	0.	0.	.62	62.	22.0	C	20.6	4.4
23	2	3040.	144.	104.	2872.	144.	104.	2872.	4100.	0.	0.	0.	.70	62.	23.2	C	20.6	4.4
24	2	2190.	0.	0.	2768.	0.	0.	2768.	4200.	0.	0.	0.	.66	65.	21.3	C	19.2	6.1
25	3	2400.	116.	2884.	2884.	116.	2884.	2884.	6150.	0.	0.	0.	.47	65.	14.8	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.75		LOWEST LOS = C	AVG = 62.	17.5		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	116. VEH-HRS	134. PASS-HRS	514. VEH-HRS	596. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	116. VEH-HRS	134. PASS-HRS	514. VEH-HRS	596. PASS-HRS
TOTAL TRAV DISTANCE =	7105. VEH-MI.	8241. PASS-MI.	31512. VEH-MI.	36553. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		61. MPH.	
AVERAGE DENSITY =	17. VPMPL		16. VPMPL	
TOTAL FUEL =	376. GALLONS		1669. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		137. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1180.	0.	1180.	1180.	0.	1180.	3850.	0.	0.	0.	.31	50.	11.8	B	17.4	2.3
2	2	2070.	628.	0.	1808.	628.	0.	1808.	3850.	0.	0.	0.	.47	50.	18.1	C	15.9	2.3
3	3	2300.	1432.	248.	3240.	1432.	248.	3240.	5567.	133.	0.	0.	.58	55.	19.6	C	14.0	2.4
4	3	1020.	0.	0.	2992.	0.	0.	2992.	5700.	0.	0.	0.	.52	62.	16.1	B	19.9	4.8
5	3	710.	204.	0.	3196.	204.	0.	3196.	5700.	0.	0.	0.	.56	62.	17.2	B	16.1	4.4
6	3	3820.	336.	808.	3532.	336.	808.	3532.	6150.	0.	0.	0.	.57	62.	19.0	C	17.1	4.8
7	2	1220.	0.	0.	2724.	0.	0.	2724.	4400.	0.	0.	0.	.62	62.	22.0	C	18.2	4.4
8	3	4810.	468.	396.	3192.	468.	396.	3192.	6100.	0.	0.	0.	.52	62.	17.2	B	20.6	4.4
9	2	1370.	0.	0.	2796.	0.	0.	2796.	4000.	0.	0.	0.	.70	62.	22.5	C	23.6	4.4
10	2	660.	160.	0.	2956.	160.	0.	2956.	4389.	11.	0.	0.	.67	62.	23.8	C	23.6	4.4
11	3	790.	500.	540.	3456.	500.	540.	3456.	5667.	433.	0.	0.	.61	62.	18.6	C	30.0	4.4
12	2	1460.	0.	0.	2916.	0.	0.	2916.	4100.	0.	0.	0.	.71	62.	23.5	C	20.6	4.4
13	3	1400.	404.	0.	3320.	404.	0.	3320.	6044.	56.	0.	0.	.55	62.	17.8	B	13.6	4.4
14	3	2600.	0.	468.	3320.	0.	468.	3320.	6044.	56.	0.	0.	.55	62.	17.8	B	20.6	4.4
15	2	2010.	0.	0.	2852.	0.	0.	2852.	3900.	0.	0.	0.	.73	62.	23.0	C	14.7	4.4
16	3	6120.	332.	332.	3184.	332.	332.	3184.	6100.	0.	0.	0.	.52	62.	17.1	B	18.2	4.4
17	2	1240.	0.	0.	2852.	0.	0.	2852.	4300.	0.	0.	0.	.66	62.	23.0	C	18.2	4.4
18	3	930.	348.	0.	3200.	348.	0.	3200.	6100.	0.	0.	0.	.52	62.	17.2	B	20.6	4.4
19	3	5330.	180.	304.	3380.	180.	304.	3380.	6089.	11.	0.	0.	.56	62.	18.2	C	20.6	4.4
20	2	2830.	0.	0.	3076.	0.	0.	3076.	3800.	0.	0.	0.	.81	61.	25.2	C	21.1	3.8
21	3	1660.	544.	548.	3620.	544.	548.	3620.	5870.	230.	0.	0.	.62	61.	19.8	C	21.1	3.8
22	2	2270.	0.	0.	3072.	0.	0.	3072.	4400.	0.	0.	0.	.70	62.	24.8	C	20.6	4.4
23	2	3040.	324.	184.	3396.	324.	184.	3396.	4100.	0.	0.	0.	.83	60.	28.1	D	21.4	3.4
24	2	2190.	0.	0.	3212.	0.	0.	3212.	4200.	0.	0.	0.	.76	64.	25.1	C	19.7	5.5
25	3	2400.	148.	3360.	3360.	148.	3360.	3360.	6150.	0.	0.	0.	.55	65.	17.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.83 LOWEST LOS = D AVG = 61. 20.1 18.9 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	133. VEH-HRS	154. PASS-HRS	647. VEH-HRS	750. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	133. VEH-HRS	154. PASS-HRS	647. VEH-HRS	750. PASS-HRS
TOTAL TRAV DISTANCE =	8152. VEH-MI.	9457. PASS-MI.	39664. VEH-MI.	46010. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		16. VPMPL	
TOTAL FUEL =	431. GALLONS		2100. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		172. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1072.	0.	1072.	1072.	0.	1072.	3850.	0.	0.	0.	.28	50.	10.7	A	17.4	2.3
2	2	2070.	844.	0.	1916.	844.	0.	1916.	3850.	0.	0.	0.	.50	50.	19.2	C	15.9	2.3
3	3	2300.	1664.	304.	3580.	1664.	304.	3580.	5536.	164.	0.	0.	.65	55.	21.7	C	14.0	2.4
4	3	1020.	0.	0.	3276.	0.	0.	3276.	5700.	0.	0.	0.	.57	62.	17.6	B	19.9	4.8
5	3	710.	276.	0.	3552.	276.	0.	3552.	5700.	0.	0.	0.	.62	62.	19.1	C	16.1	4.4
6	3	3820.	376.	792.	3928.	376.	792.	3928.	6150.	0.	0.	0.	.64	62.	21.1	C	17.1	4.8
7	2	1220.	0.	0.	3136.	0.	0.	3136.	4400.	0.	0.	0.	.71	62.	25.3	C	18.2	4.3
8	3	4810.	680.	500.	3816.	680.	500.	3816.	6100.	0.	0.	0.	.63	62.	20.5	C	20.6	4.4
9	2	1370.	0.	0.	3316.	0.	0.	3316.	4000.	0.	0.	0.	.83	60.	27.5	D	24.6	3.4
10	2	660.	236.	0.	3552.	236.	0.	3552.	4385.	15.	0.	0.	.81	61.	29.2	D	24.3	3.7
11	3	790.	632.	584.	4184.	632.	584.	4184.	5587.	513.	0.	0.	.75	62.	22.5	C	30.0	4.4
12	2	1460.	0.	0.	3600.	0.	0.	3600.	4100.	0.	0.	0.	.88	59.	30.6	D	22.0	2.9
13	3	1400.	392.	0.	3992.	392.	0.	3992.	6008.	92.	0.	0.	.66	62.	21.5	C	13.6	4.4
14	3	2600.	0.	948.	3992.	0.	948.	3992.	6008.	92.	0.	0.	.66	62.	21.5	C	20.6	4.4
15	2	2010.	0.	0.	3044.	0.	0.	3044.	3900.	0.	0.	0.	.78	62.	24.5	C	14.7	4.4
16	3	6120.	396.	328.	3440.	396.	328.	3440.	6100.	0.	0.	0.	.56	62.	18.5	C	18.2	4.4
17	2	1240.	0.	0.	3112.	0.	0.	3112.	4300.	0.	0.	0.	.72	62.	25.1	C	18.2	4.3
18	3	930.	260.	0.	3372.	260.	0.	3372.	6100.	0.	0.	0.	.55	62.	18.1	C	20.6	4.4
19	3	5330.	156.	272.	3528.	156.	272.	3528.	6091.	9.	0.	0.	.58	62.	19.0	C	20.6	4.4
20	2	2830.	0.	0.	3256.	0.	0.	3256.	3800.	0.	0.	0.	.86	59.	27.6	D	21.9	2.9
21	3	1660.	480.	400.	3736.	480.	400.	3736.	6048.	52.	0.	0.	.62	61.	20.4	C	21.1	3.8
22	2	2270.	0.	0.	3336.	0.	0.	3336.	4400.	0.	0.	0.	.76	62.	27.1	D	20.8	4.1
23	2	3040.	324.	208.	3660.	324.	208.	3660.	4100.	0.	0.	0.	.89	58.	31.5	D	22.2	2.7
24	2	2190.	0.	0.	3452.	0.	0.	3452.	4200.	0.	0.	0.	.82	62.	27.6	D	20.3	4.6
25	3	2400.	200.	3652.	3652.	200.	3652.	3652.	6150.	0.	0.	0.	.59	65.	18.7	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 61.	22.4		19.1	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	148. VEH-HRS	172. PASS-HRS	795. VEH-HRS	922. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	148. VEH-HRS	172. PASS-HRS	795. VEH-HRS	922. PASS-HRS
TOTAL TRAV DISTANCE =	9025. VEH-MI.	10469. PASS-MI.	48689. VEH-MI.	56479. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		17. VPMPL	
TOTAL FUEL =	473. GALLONS		2574. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		209. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1344.	0.	1344.	1344.	0.	1344.	3850.	0.	0.	0.	.35	50.	13.4	B	17.4	2.3
2	2	2070.	796.	0.	2140.	796.	0.	2140.	3850.	0.	0.	0.	.56	50.	21.4	C	15.9	2.3
3	3	2300.	1676.	348.	3816.	1676.	348.	3816.	5504.	196.	0.	0.	.69	55.	23.1	C	14.0	2.4
4	3	1020.	0.	0.	3468.	0.	0.	3468.	5700.	0.	0.	0.	.61	62.	18.6	C	19.9	4.8
5	3	710.	316.	0.	3784.	316.	0.	3784.	5700.	0.	0.	0.	.66	62.	20.3	C	16.1	4.4
6	3	3820.	412.	856.	4196.	412.	856.	4196.	6150.	0.	0.	0.	.68	62.	22.6	C	17.1	4.8
7	2	1220.	0.	0.	3340.	0.	0.	3340.	4400.	0.	0.	0.	.76	62.	27.1	D	18.3	4.1
8	3	4810.	688.	536.	4028.	688.	536.	4028.	6100.	0.	0.	0.	.66	62.	21.7	C	20.6	4.4
9	2	1370.	0.	0.	3492.	0.	0.	3492.	4000.	0.	0.	0.	.87	59.	29.6	D	25.2	2.9
10	2	660.	308.	0.	3800.	308.	0.	3800.	4378.	22.	0.	0.	.87	59.	32.1	D	25.2	3.0
11	3	790.	704.	708.	4504.	704.	708.	4504.	5482.	618.	0.	0.	.82	62.	24.2	C	30.0	4.4
12	2	1460.	0.	0.	3796.	0.	0.	3796.	4100.	0.	0.	0.	.93	57.	33.6	D	22.7	2.4
13	3	1400.	416.	0.	4212.	416.	0.	4212.	5988.	112.	0.	0.	.70	62.	22.6	C	13.6	4.4
14	3	2600.	0.	1136.	4212.	0.	1136.	4212.	5988.	112.	0.	0.	.70	62.	22.6	C	20.6	4.4
15	2	2010.	0.	0.	3076.	0.	0.	3076.	3900.	0.	0.	0.	.79	62.	24.8	C	14.7	4.4
16	3	6120.	452.	400.	3528.	452.	400.	3528.	6100.	0.	0.	0.	.58	62.	19.0	C	18.2	4.4
17	2	1240.	0.	0.	3128.	0.	0.	3128.	4300.	0.	0.	0.	.73	62.	25.3	C	18.2	4.3
18	3	930.	320.	0.	3448.	320.	0.	3448.	6100.	0.	0.	0.	.57	62.	18.5	C	20.6	4.4
19	3	5330.	156.	336.	3604.	156.	336.	3604.	6087.	13.	0.	0.	.59	62.	19.4	C	20.6	4.4
20	2	2830.	0.	0.	3268.	0.	0.	3268.	3800.	0.	0.	0.	.86	59.	27.8	D	22.0	2.9
21	3	1660.	644.	456.	3912.	644.	456.	3912.	5891.	209.	0.	0.	.66	61.	21.4	C	21.1	3.8
22	2	2270.	0.	0.	3456.	0.	0.	3456.	4400.	0.	0.	0.	.79	61.	28.2	D	21.0	3.9
23	2	3040.	304.	336.	3760.	304.	336.	3760.	4100.	0.	0.	0.	.92	57.	33.0	D	22.5	2.5
24	2	2190.	0.	0.	3424.	0.	0.	3424.	4200.	0.	0.	0.	.82	63.	27.3	D	20.2	4.8
25	3	2400.	204.	3628.	3628.	204.	3628.	3628.	6150.	0.	0.	0.	.59	65.	18.6	C	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.93 LOWEST LOS = D AVG = 61. 23.4 19.1 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	155. VEH-HRS	179. PASS-HRS	950. VEH-HRS	1102. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	155. VEH-HRS	179. PASS-HRS	950. VEH-HRS	1102. PASS-HRS
TOTAL TRAV DISTANCE =	9380. VEH-MI.	10881. PASS-MI.	58070. VEH-MI.	67361. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		18. VPMPL	
TOTAL FUEL =	491. GALLONS		3065. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		247. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2336.	0.	2336.	2336.	0.	2336.	3850.	0.	0.	0.	.61	50.	23.4	C	17.4	2.3
2	2	2070.	688.	0.	3024.	688.	0.	3024.	3830.	20.	0.	0.	.79	50.	30.2	D	15.9	2.3
3	3	2300.	1528.	376.	4552.	1528.	376.	4552.	5430.	270.	0.	0.	.84	55.	27.6	D	14.0	2.4
4	3	1020.	0.	0.	4176.	0.	0.	4176.	5700.	0.	0.	0.	.73	62.	22.5	C	19.9	4.8
5	3	710.	236.	0.	4412.	236.	0.	4412.	5700.	0.	0.	0.	.77	62.	23.7	C	16.1	4.4
6	3	3820.	292.	1072.	4704.	292.	1072.	4704.	6127.	23.	0.	0.	.77	62.	25.5	C	17.3	4.5
7	2	1220.	0.	0.	3632.	0.	0.	3632.	4400.	0.	0.	0.	.83	60.	30.0	D	18.8	3.4
8	3	4810.	588.	820.	4220.	588.	820.	4220.	6100.	0.	0.	0.	.69	62.	22.7	C	20.6	4.4
9	2	1370.	0.	0.	3400.	0.	0.	3400.	4000.	0.	0.	0.	.85	60.	28.5	D	24.9	3.1
10	2	660.	228.	0.	3628.	228.	0.	3628.	4376.	24.	0.	0.	.83	60.	30.1	D	24.6	3.4
11	3	790.	664.	964.	4292.	664.	964.	4292.	5556.	544.	0.	0.	.77	62.	23.1	C	30.0	4.4
12	2	1460.	0.	0.	3328.	0.	0.	3328.	4100.	0.	0.	0.	.81	61.	27.4	D	21.2	3.6
13	3	1400.	480.	0.	3808.	480.	0.	3808.	5996.	104.	0.	0.	.64	62.	20.5	C	13.6	4.4
14	3	2600.	0.	836.	3808.	0.	836.	3808.	5996.	104.	0.	0.	.64	62.	20.5	C	20.6	4.4
15	2	2010.	0.	0.	2972.	0.	0.	2972.	3900.	0.	0.	0.	.76	62.	24.0	C	14.7	4.4
16	3	6120.	384.	488.	3356.	384.	488.	3356.	6100.	0.	0.	0.	.55	62.	18.0	C	18.2	4.4
17	2	1240.	0.	0.	2868.	0.	0.	2868.	4300.	0.	0.	0.	.67	62.	23.1	C	18.2	4.4
18	3	930.	340.	0.	3208.	340.	0.	3208.	6100.	0.	0.	0.	.53	62.	17.2	B	20.6	4.4
19	3	5330.	172.	388.	3380.	172.	388.	3380.	6086.	14.	0.	0.	.56	62.	18.2	C	20.6	4.4
20	2	2830.	0.	0.	2992.	0.	0.	2992.	3800.	0.	0.	0.	.79	61.	24.5	C	21.1	3.8
21	3	1660.	464.	380.	3456.	464.	380.	3456.	6067.	33.	0.	0.	.57	61.	18.9	C	21.1	3.8
22	2	2270.	0.	0.	3076.	0.	0.	3076.	4400.	0.	0.	0.	.70	62.	24.8	C	20.6	4.4
23	2	3040.	144.	280.	3220.	144.	280.	3220.	4100.	0.	0.	0.	.79	61.	26.3	D	21.0	3.9
24	2	2190.	0.	0.	2940.	0.	0.	2940.	4200.	0.	0.	0.	.70	65.	22.7	C	19.3	6.0
25	3	2400.	208.	3148.	3148.	208.	3148.	3148.	6150.	0.	0.	0.	.51	65.	16.1	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.85		LOWEST LOS = D	AVG = 61.	22.7		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	151. VEH-HRS	175. PASS-HRS	1101. VEH-HRS	1277. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	151. VEH-HRS	175. PASS-HRS	1101. VEH-HRS	1277. PASS-HRS
TOTAL TRAV DISTANCE =	9212. VEH-MI.	10686. PASS-MI.	67282. VEH-MI.	78047. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		19. VPMPL	
TOTAL FUEL =	490. GALLONS		3555. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		286. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1060.	0.	1060.	1060.	0.	1060.	3850.	0.	0.	0.	.28	50.	10.6	A	17.4	2.3
2	2	2070.	692.	0.	1752.	692.	0.	1752.	3850.	0.	0.	0.	.46	50.	17.5	B	15.9	2.3
3	3	2300.	1636.	388.	3388.	1636.	388.	3388.	5500.	200.	0.	0.	.62	55.	20.5	C	14.0	2.4
4	3	1020.	0.	0.	3000.	0.	0.	3000.	5700.	0.	0.	0.	.53	62.	16.1	B	19.9	4.8
5	3	710.	264.	0.	3264.	264.	0.	3264.	5700.	0.	0.	0.	.57	62.	17.5	B	16.1	4.4
6	3	3820.	432.	1020.	3696.	432.	1020.	3696.	6134.	16.	0.	0.	.60	62.	19.9	C	17.1	4.8
7	2	1220.	0.	0.	2676.	0.	0.	2676.	4400.	0.	0.	0.	.61	62.	21.6	C	18.2	4.4
8	3	4810.	600.	692.	3276.	600.	692.	3276.	6100.	0.	0.	0.	.54	62.	17.6	B	20.6	4.4
9	2	1370.	0.	0.	2584.	0.	0.	2584.	4000.	0.	0.	0.	.65	62.	20.8	C	23.6	4.4
10	2	660.	244.	0.	2828.	244.	0.	2828.	4376.	24.	0.	0.	.65	62.	22.8	C	23.6	4.4
11	3	790.	568.	736.	3396.	568.	736.	3396.	5628.	472.	0.	0.	.60	62.	18.3	C	30.0	4.4
12	2	1460.	0.	0.	2660.	0.	0.	2660.	4100.	0.	0.	0.	.65	62.	21.5	C	20.6	4.4
13	3	1400.	464.	0.	3124.	464.	0.	3124.	6009.	91.	0.	0.	.52	62.	16.8	B	13.6	4.4
14	3	2600.	0.	648.	3124.	0.	648.	3124.	6009.	91.	0.	0.	.52	62.	16.8	B	20.6	4.4
15	2	2010.	0.	0.	2476.	0.	0.	2476.	3900.	0.	0.	0.	.63	62.	20.0	C	14.7	4.4
16	3	6120.	468.	476.	2944.	468.	476.	2944.	6100.	0.	0.	0.	.48	62.	15.8	B	18.2	4.4
17	2	1240.	0.	0.	2468.	0.	0.	2468.	4300.	0.	0.	0.	.57	62.	19.9	C	18.2	4.4
18	3	930.	292.	0.	2760.	292.	0.	2760.	6100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
19	3	5330.	124.	440.	2884.	124.	440.	2884.	6096.	4.	0.	0.	.47	62.	15.5	B	20.6	4.4
20	2	2830.	0.	0.	2444.	0.	0.	2444.	3800.	0.	0.	0.	.64	61.	20.0	C	21.1	3.8
21	3	1660.	504.	460.	2948.	504.	460.	2948.	6024.	76.	0.	0.	.49	61.	16.1	B	21.1	3.8
22	2	2270.	0.	0.	2488.	0.	0.	2488.	4400.	0.	0.	0.	.57	62.	20.1	C	20.6	4.4
23	2	3040.	208.	312.	2696.	208.	312.	2696.	4100.	0.	0.	0.	.66	62.	21.7	C	20.6	4.4
24	2	2190.	0.	0.	2384.	0.	0.	2384.	4200.	0.	0.	0.	.57	65.	18.3	C	19.2	6.1
25	3	2400.	156.	2540.	2540.	156.	2540.	2540.	6150.	0.	0.	0.	.41	65.	13.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.66		LOWEST LOS = C	AVG = 61.	18.0		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	120. VEH-HRS	140. PASS-HRS	1221. VEH-HRS	1417. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	120. VEH-HRS	140. PASS-HRS	1221. VEH-HRS	1417. PASS-HRS
TOTAL TRAV DISTANCE =	7382. VEH-MI.	8563. PASS-MI.	74663. VEH-MI.	86609. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		18. VPMPL	
TOTAL FUEL =	394. GALLONS		3949. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		318. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1680.	0.	1680.	1680.	0.	1680.	3850.	0.	0.	0.	.44	50.	16.8	B	17.4	2.3
2	2	2070.	640.	0.	2320.	640.	0.	2320.	3845.	5.	0.	0.	.60	50.	23.2	C	15.9	2.3
3	3	2300.	1728.	328.	4048.	1728.	328.	4048.	5505.	195.	0.	0.	.74	55.	24.5	C	14.0	2.4
4	3	1020.	0.	0.	3720.	0.	0.	3720.	5700.	0.	0.	0.	.65	62.	20.0	C	19.9	4.8
5	3	710.	296.	0.	4016.	296.	0.	4016.	5700.	0.	0.	0.	.70	62.	21.6	C	16.1	4.4
6	3	3820.	356.	980.	4372.	356.	980.	4372.	6150.	0.	0.	0.	.71	62.	23.5	C	17.1	4.8
7	2	1220.	0.	0.	3392.	0.	0.	3392.	4400.	0.	0.	0.	.77	61.	27.6	D	18.4	4.0
8	3	4810.	684.	776.	4076.	684.	776.	4076.	6100.	0.	0.	0.	.67	62.	21.9	C	20.6	4.4
9	2	1370.	0.	0.	3300.	0.	0.	3300.	4000.	0.	0.	0.	.82	60.	27.3	D	24.5	3.5
10	2	660.	240.	0.	3540.	240.	0.	3540.	4380.	20.	0.	0.	.81	61.	29.1	D	24.3	3.7
11	3	790.	512.	732.	4052.	512.	732.	4052.	5656.	444.	0.	0.	.72	62.	21.8	C	30.0	4.4
12	2	1460.	0.	0.	3320.	0.	0.	3320.	4100.	0.	0.	0.	.81	61.	27.3	D	21.2	3.7
13	3	1400.	420.	0.	3740.	420.	0.	3740.	6016.	84.	0.	0.	.62	62.	20.1	C	13.6	4.4
14	3	2600.	0.	752.	3740.	0.	752.	3740.	6016.	84.	0.	0.	.62	62.	20.1	C	20.6	4.4
15	2	2010.	0.	0.	2988.	0.	0.	2988.	3900.	0.	0.	0.	.77	62.	24.1	C	14.7	4.4
16	3	6120.	312.	544.	3300.	312.	544.	3300.	6100.	0.	0.	0.	.54	62.	17.7	B	18.2	4.4
17	2	1240.	0.	0.	2756.	0.	0.	2756.	4300.	0.	0.	0.	.64	62.	22.2	C	18.2	4.4
18	3	930.	228.	0.	2984.	228.	0.	2984.	6100.	0.	0.	0.	.49	62.	16.0	B	20.6	4.4
19	3	5330.	112.	440.	3096.	112.	440.	3096.	6092.	8.	0.	0.	.51	62.	16.6	B	20.6	4.4
20	2	2830.	0.	0.	2656.	0.	0.	2656.	3800.	0.	0.	0.	.70	61.	21.8	C	21.1	3.8
21	3	1660.	440.	424.	3096.	440.	424.	3096.	6064.	36.	0.	0.	.51	61.	16.9	B	21.1	3.8
22	2	2270.	0.	0.	2672.	0.	0.	2672.	4400.	0.	0.	0.	.61	62.	21.5	C	20.6	4.4
23	2	3040.	204.	264.	2876.	204.	264.	2876.	4100.	0.	0.	0.	.70	62.	23.2	C	20.6	4.4
24	2	2190.	0.	0.	2612.	0.	0.	2612.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	160.	2772.	2772.	160.	2772.	2772.	6150.	0.	0.	0.	.45	65.	14.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.82 LOWEST LOS = D AVG = 61. 20.9 18.7 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	140. VEH-HRS	162. PASS-HRS	1361. VEH-HRS	1579. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	162. PASS-HRS	1361. VEH-HRS	1579. PASS-HRS
TOTAL TRAV DISTANCE =	8553. VEH-MI.	9922. PASS-MI.	83216. VEH-MI.	96531. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		19. VPMPL	
TOTAL FUEL =	456. GALLONS		4405. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		354. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1312.	0.	1312.	1312.	0.	1312.	3850.	0.	0.	0.	.34	50.	13.1	B	17.4	2.3
2	2	2070.	724.	0.	2036.	724.	0.	2036.	3850.	0.	0.	0.	.53	50.	20.4	C	15.9	2.3
3	3	2300.	1752.	348.	3788.	1752.	348.	3788.	5512.	188.	0.	0.	.69	55.	23.0	C	14.0	2.4
4	3	1020.	0.	0.	3440.	0.	0.	3440.	5700.	0.	0.	0.	.60	62.	18.5	C	19.9	4.8
5	3	710.	236.	0.	3676.	236.	0.	3676.	5700.	0.	0.	0.	.64	62.	19.8	C	16.1	4.4
6	3	3820.	336.	956.	4012.	336.	956.	4012.	6150.	0.	0.	0.	.65	62.	21.6	C	17.1	4.8
7	2	1220.	0.	0.	3056.	0.	0.	3056.	4400.	0.	0.	0.	.69	62.	24.6	C	18.2	4.4
8	3	4810.	616.	700.	3672.	616.	700.	3672.	6100.	0.	0.	0.	.60	62.	19.7	C	20.6	4.4
9	2	1370.	0.	0.	2972.	0.	0.	2972.	4000.	0.	0.	0.	.74	62.	24.0	C	23.6	4.4
10	2	660.	244.	0.	3216.	244.	0.	3216.	4376.	24.	0.	0.	.73	62.	26.0	D	23.7	4.2
11	3	790.	648.	836.	3864.	648.	836.	3864.	5564.	536.	0.	0.	.69	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3028.	0.	0.	3028.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
13	3	1400.	380.	0.	3408.	380.	0.	3408.	5986.	114.	0.	0.	.57	62.	18.3	C	13.6	4.4
14	3	2600.	0.	1084.	3408.	0.	1084.	3408.	5986.	114.	0.	0.	.57	62.	18.3	C	20.6	4.4
15	2	2010.	0.	0.	2324.	0.	0.	2324.	3900.	0.	0.	0.	.60	62.	18.7	C	14.7	4.4
16	3	6120.	364.	636.	2688.	364.	636.	2688.	6100.	0.	0.	0.	.44	62.	14.5	B	18.2	4.4
17	2	1240.	0.	0.	2052.	0.	0.	2052.	4300.	0.	0.	0.	.48	62.	16.5	B	18.2	4.4
18	3	930.	232.	0.	2284.	232.	0.	2284.	6100.	0.	0.	0.	.37	62.	12.3	B	20.6	4.4
19	3	5330.	120.	376.	2404.	120.	376.	2404.	6100.	0.	0.	0.	.39	62.	12.9	B	20.6	4.4
20	2	2830.	0.	0.	2028.	0.	0.	2028.	3800.	0.	0.	0.	.53	61.	16.6	B	21.1	3.8
21	3	1660.	384.	384.	2412.	384.	384.	2412.	6100.	0.	0.	0.	.40	61.	13.2	B	21.1	3.8
22	2	2270.	0.	0.	2028.	0.	0.	2028.	4400.	0.	0.	0.	.46	62.	16.4	B	20.6	4.4
23	2	3040.	148.	244.	2176.	148.	244.	2176.	4100.	0.	0.	0.	.53	62.	17.5	B	20.6	4.4
24	2	2190.	0.	0.	1932.	0.	0.	1932.	4200.	0.	0.	0.	.46	65.	14.9	B	19.2	6.1
25	3	2400.	104.	2036.	2036.	104.	2036.	2036.	6150.	0.	0.	0.	.33	65.	10.4	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.74		LOWEST LOS = D	AVG = 61.	17.6		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1479. VEH-HRS	1716. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1479. VEH-HRS	1716. PASS-HRS
TOTAL TRAV DISTANCE =	7216. VEH-MI.	8370. PASS-MI.	90432. VEH-MI.	104902. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		19. VPMPL	
TOTAL FUEL =	387. GALLONS		4792. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		386. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1188.	0.	1188.	1188.	0.	1188.	3850.	0.	0.	0.	.31	50.	11.9	B	17.4	2.3
2	2	2070.	656.	0.	1844.	656.	0.	1844.	3850.	0.	0.	0.	.48	50.	18.4	C	15.9	2.3
3	3	2300.	1360.	180.	3204.	1360.	180.	3204.	5601.	99.	0.	0.	.57	55.	19.4	C	14.0	2.4
4	3	1020.	0.	0.	3024.	0.	0.	3024.	5700.	0.	0.	0.	.53	62.	16.3	B	19.9	4.8
5	3	710.	236.	0.	3260.	236.	0.	3260.	5700.	0.	0.	0.	.57	62.	17.5	B	16.1	4.4
6	3	3820.	404.	728.	3664.	404.	728.	3664.	6150.	0.	0.	0.	.60	62.	19.7	C	17.1	4.8
7	2	1220.	0.	0.	2936.	0.	0.	2936.	4400.	0.	0.	0.	.67	62.	23.7	C	18.2	4.4
8	3	4810.	616.	600.	3552.	616.	600.	3552.	6100.	0.	0.	0.	.58	62.	19.1	C	20.6	4.4
9	2	1370.	0.	0.	2952.	0.	0.	2952.	4000.	0.	0.	0.	.74	62.	23.8	C	23.6	4.4
10	2	660.	168.	0.	3120.	168.	0.	3120.	4387.	13.	0.	0.	.71	62.	25.2	C	23.6	4.3
11	3	790.	616.	608.	3736.	616.	608.	3736.	5577.	523.	0.	0.	.67	62.	20.1	C	30.0	4.4
12	2	1460.	0.	0.	3128.	0.	0.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
13	3	1400.	396.	0.	3524.	396.	0.	3524.	5971.	129.	0.	0.	.59	62.	18.9	C	13.6	4.4
14	3	2600.	0.	1216.	3524.	0.	1216.	3524.	5971.	129.	0.	0.	.59	62.	18.9	C	20.6	4.4
15	2	2010.	0.	0.	2308.	0.	0.	2308.	3900.	0.	0.	0.	.59	62.	18.6	C	14.7	4.4
16	3	6120.	280.	556.	2588.	280.	556.	2588.	6100.	0.	0.	0.	.42	62.	13.9	B	18.2	4.4
17	2	1240.	0.	0.	2032.	0.	0.	2032.	4300.	0.	0.	0.	.47	62.	16.4	B	18.2	4.4
18	3	930.	272.	0.	2304.	272.	0.	2304.	6100.	0.	0.	0.	.38	62.	12.4	B	20.6	4.4
19	3	5330.	96.	336.	2400.	96.	336.	2400.	6100.	0.	0.	0.	.39	62.	12.9	B	20.6	4.4
20	2	2830.	0.	0.	2064.	0.	0.	2064.	3800.	0.	0.	0.	.54	61.	16.9	B	21.1	3.8
21	3	1660.	344.	264.	2408.	344.	264.	2408.	6100.	0.	0.	0.	.39	61.	13.2	B	21.1	3.8
22	2	2270.	0.	0.	2144.	0.	0.	2144.	4400.	0.	0.	0.	.49	62.	17.3	B	20.6	4.4
23	2	3040.	104.	208.	2248.	104.	208.	2248.	4100.	0.	0.	0.	.55	62.	18.1	C	20.6	4.4
24	2	2190.	0.	0.	2040.	0.	0.	2040.	4200.	0.	0.	0.	.49	65.	15.7	B	19.2	6.1
25	3	2400.	120.	2160.	2160.	120.	2160.	2160.	6150.	0.	0.	0.	.35	65.	11.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.76 LOWEST LOS = C AVG = 61. 17.2 18.7 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	133. PASS-HRS	1594. VEH-HRS	1849. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	115. VEH-HRS	133. PASS-HRS	1594. VEH-HRS	1849. PASS-HRS
TOTAL TRAV DISTANCE =	7040. VEH-MI.	8166. PASS-MI.	97472. VEH-MI.	113068. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	17. VPMPL		19. VPMPL	
TOTAL FUEL =	376. GALLONS		5167. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		416. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1772.	0.	1772.	1772.	0.	1772.	3850.	0.	0.	0.	.46	50.	17.7	B	17.4	2.3
2	2	2070.	632.	0.	2404.	632.	0.	2404.	3842.	8.	0.	0.	.63	50.	24.0	C	15.9	2.3
3	3	2300.	1424.	336.	3828.	1424.	336.	3828.	5478.	222.	0.	0.	.70	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3492.	0.	0.	3492.	5700.	0.	0.	0.	.61	62.	18.8	C	19.9	4.8
5	3	710.	184.	0.	3676.	184.	0.	3676.	5700.	0.	0.	0.	.64	62.	19.8	C	16.1	4.4
6	3	3820.	284.	716.	3960.	284.	716.	3960.	6150.	0.	0.	0.	.64	62.	21.3	C	17.1	4.8
7	2	1220.	0.	0.	3244.	0.	0.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	18.2	4.2
8	3	4810.	536.	676.	3780.	536.	676.	3780.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	3104.	0.	0.	3104.	4000.	0.	0.	0.	.78	61.	25.3	C	23.9	4.0
10	2	660.	260.	0.	3364.	260.	0.	3364.	4384.	16.	0.	0.	.77	62.	27.3	D	23.9	4.1
11	3	790.	512.	544.	3876.	512.	544.	3876.	5640.	460.	0.	0.	.69	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3332.	0.	0.	3332.	4100.	0.	0.	0.	.81	61.	27.4	D	21.2	3.6
13	3	1400.	280.	0.	3612.	280.	0.	3612.	6004.	96.	0.	0.	.60	62.	19.4	C	13.6	4.4
14	3	2600.	0.	1224.	3612.	0.	1224.	3612.	6004.	96.	0.	0.	.60	62.	19.4	C	20.6	4.4
15	2	2010.	0.	0.	2388.	0.	0.	2388.	3900.	0.	0.	0.	.61	62.	19.3	C	14.7	4.4
16	3	6120.	296.	588.	2684.	296.	588.	2684.	6100.	0.	0.	0.	.44	62.	14.4	B	18.2	4.4
17	2	1240.	0.	0.	2096.	0.	0.	2096.	4300.	0.	0.	0.	.49	62.	16.9	B	18.2	4.4
18	3	930.	292.	0.	2388.	292.	0.	2388.	6100.	0.	0.	0.	.39	62.	12.8	B	20.6	4.4
19	3	5330.	112.	348.	2500.	112.	348.	2500.	6100.	0.	0.	0.	.41	62.	13.4	B	20.6	4.4
20	2	2830.	0.	0.	2152.	0.	0.	2152.	3800.	0.	0.	0.	.57	61.	17.6	B	21.1	3.8
21	3	1660.	324.	396.	2476.	324.	396.	2476.	6100.	0.	0.	0.	.41	61.	13.5	B	21.1	3.8
22	2	2270.	0.	0.	2080.	0.	0.	2080.	4400.	0.	0.	0.	.47	62.	16.8	B	20.6	4.4
23	2	3040.	124.	200.	2204.	124.	200.	2204.	4100.	0.	0.	0.	.54	62.	17.8	B	20.6	4.4
24	2	2190.	0.	0.	2004.	0.	0.	2004.	4200.	0.	0.	0.	.48	65.	15.4	B	19.2	6.1
25	3	2400.	64.	2068.	2068.	64.	2068.	2068.	6150.	0.	0.	0.	.34	65.	10.6	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 61.	18.2		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	122. VEH-HRS	142. PASS-HRS	1716. VEH-HRS	1990. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	122. VEH-HRS	142. PASS-HRS	1716. VEH-HRS	1990. PASS-HRS
TOTAL TRAV DISTANCE =	7448. VEH-MI.	8639. PASS-MI.	104920. VEH-MI.	121707. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		18. VPMPL	
TOTAL FUEL =	399. GALLONS		5566. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		448. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1500.	0.	1500.	1500.	0.	1500.	3850.	0.	0.	0.	.39	50.	15.0	B	17.4	2.3
2	2	2070.	612.	0.	2112.	612.	0.	2112.	3849.	1.	0.	0.	.55	50.	21.1	C	15.9	2.3
3	3	2300.	1432.	264.	3544.	1432.	264.	3544.	5551.	149.	0.	0.	.64	55.	21.5	C	14.0	2.4
4	3	1020.	0.	0.	3280.	0.	0.	3280.	5700.	0.	0.	0.	.58	62.	17.6	B	19.9	4.8
5	3	710.	200.	0.	3480.	200.	0.	3480.	5700.	0.	0.	0.	.61	62.	18.7	C	16.1	4.4
6	3	3820.	292.	772.	3772.	292.	772.	3772.	6150.	0.	0.	0.	.61	62.	20.3	C	17.1	4.8
7	2	1220.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	18.2	4.4
8	3	4810.	424.	756.	3424.	424.	756.	3424.	6100.	0.	0.	0.	.56	62.	18.4	C	20.6	4.4
9	2	1370.	0.	0.	2668.	0.	0.	2668.	4000.	0.	0.	0.	.67	62.	21.5	C	23.6	4.4
10	2	660.	228.	0.	2896.	228.	0.	2896.	4382.	18.	0.	0.	.66	62.	23.4	C	23.6	4.4
11	3	790.	468.	604.	3364.	468.	604.	3364.	5694.	406.	0.	0.	.59	62.	18.1	C	30.0	4.4
12	2	1460.	0.	0.	2760.	0.	0.	2760.	4100.	0.	0.	0.	.67	62.	22.3	C	20.6	4.4
13	3	1400.	308.	0.	3068.	308.	0.	3068.	6040.	60.	0.	0.	.51	62.	16.5	B	13.6	4.4
14	3	2600.	0.	596.	3068.	0.	596.	3068.	6040.	60.	0.	0.	.51	62.	16.5	B	20.6	4.4
15	2	2010.	0.	0.	2472.	0.	0.	2472.	3900.	0.	0.	0.	.63	62.	19.9	C	14.7	4.4
16	3	6120.	336.	500.	2808.	336.	500.	2808.	6100.	0.	0.	0.	.46	62.	15.1	B	18.2	4.4
17	2	1240.	0.	0.	2308.	0.	0.	2308.	4300.	0.	0.	0.	.54	62.	18.6	C	18.2	4.4
18	3	930.	324.	0.	2632.	324.	0.	2632.	6100.	0.	0.	0.	.43	62.	14.2	B	20.6	4.4
19	3	5330.	116.	444.	2748.	116.	444.	2748.	6100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
20	2	2830.	0.	0.	2304.	0.	0.	2304.	3800.	0.	0.	0.	.61	61.	18.9	C	21.1	3.8
21	3	1660.	248.	336.	2552.	248.	336.	2552.	6100.	0.	0.	0.	.42	61.	13.9	B	21.1	3.8
22	2	2270.	0.	0.	2216.	0.	0.	2216.	4400.	0.	0.	0.	.50	62.	17.9	B	20.6	4.4
23	2	3040.	76.	184.	2292.	76.	184.	2292.	4100.	0.	0.	0.	.56	62.	18.5	C	20.6	4.4
24	2	2190.	0.	0.	2108.	0.	0.	2108.	4200.	0.	0.	0.	.50	65.	16.2	B	19.2	6.1
25	3	2400.	100.	2208.	2208.	100.	2208.	2208.	6150.	0.	0.	0.	.36	65.	11.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.68		LOWEST LOS = C	AVG = 61.	17.7		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1834. VEH-HRS	2128. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	118. VEH-HRS	137. PASS-HRS	1834. VEH-HRS	2128. PASS-HRS
TOTAL TRAV DISTANCE =	7241. VEH-MI.	8400. PASS-MI.	112161. VEH-MI.	130107. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		18. VPMPL	
TOTAL FUEL =	388. GALLONS		5953. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		479. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1556.	0.	1556.	1556.	0.	1556.	3850.	0.	0.	0.	.40	50.	15.6	B	17.4	2.3
2	2	2070.	576.	0.	2132.	576.	0.	2132.	3848.	2.	0.	0.	.55	50.	21.3	C	15.9	2.3
3	3	2300.	1536.	304.	3668.	1536.	304.	3668.	5521.	179.	0.	0.	.66	55.	22.2	C	14.0	2.4
4	3	1020.	0.	0.	3364.	0.	0.	3364.	5700.	0.	0.	0.	.59	62.	18.1	C	19.9	4.8
5	3	710.	172.	0.	3536.	172.	0.	3536.	5700.	0.	0.	0.	.62	62.	19.0	C	16.1	4.4
6	3	3820.	408.	888.	3944.	408.	888.	3944.	6150.	0.	0.	0.	.64	62.	21.2	C	17.1	4.8
7	2	1220.	0.	0.	3056.	0.	0.	3056.	4400.	0.	0.	0.	.69	62.	24.6	C	18.2	4.4
8	3	4810.	544.	696.	3600.	544.	696.	3600.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
9	2	1370.	0.	0.	2904.	0.	0.	2904.	4000.	0.	0.	0.	.73	62.	23.4	C	23.6	4.4
10	2	660.	176.	0.	3080.	176.	0.	3080.	4384.	16.	0.	0.	.70	62.	24.8	C	23.6	4.4
11	3	790.	488.	736.	3568.	488.	736.	3568.	5692.	408.	0.	0.	.63	62.	19.2	C	30.0	4.4
12	2	1460.	0.	0.	2832.	0.	0.	2832.	4100.	0.	0.	0.	.69	62.	22.8	C	20.6	4.4
13	3	1400.	396.	0.	3228.	396.	0.	3228.	6036.	64.	0.	0.	.53	62.	17.4	B	13.6	4.4
14	3	2600.	0.	532.	3228.	0.	532.	3228.	6036.	64.	0.	0.	.53	62.	17.4	B	20.6	4.4
15	2	2010.	0.	0.	2696.	0.	0.	2696.	3900.	0.	0.	0.	.69	62.	21.7	C	14.7	4.4
16	3	6120.	312.	536.	3008.	312.	536.	3008.	6100.	0.	0.	0.	.49	62.	16.2	B	18.2	4.4
17	2	1240.	0.	0.	2472.	0.	0.	2472.	4300.	0.	0.	0.	.57	62.	19.9	C	18.2	4.4
18	3	930.	236.	0.	2708.	236.	0.	2708.	6100.	0.	0.	0.	.44	62.	14.6	B	20.6	4.4
19	3	5330.	140.	468.	2848.	140.	468.	2848.	6097.	3.	0.	0.	.47	62.	15.3	B	20.6	4.4
20	2	2830.	0.	0.	2380.	0.	0.	2380.	3800.	0.	0.	0.	.63	61.	19.5	C	21.1	3.8
21	3	1660.	312.	428.	2692.	312.	428.	2692.	6100.	0.	0.	0.	.44	61.	14.7	B	21.1	3.8
22	2	2270.	0.	0.	2264.	0.	0.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	20.6	4.4
23	2	3040.	96.	236.	2360.	96.	236.	2360.	4100.	0.	0.	0.	.58	62.	19.0	C	20.6	4.4
24	2	2190.	0.	0.	2124.	0.	0.	2124.	4200.	0.	0.	0.	.51	65.	16.3	B	19.2	6.1
25	3	2400.	76.	2200.	2200.	76.	2200.	2200.	6150.	0.	0.	0.	.36	65.	11.3	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.73 LOWEST LOS = C AVG = 61. 18.4 18.7 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	123. VEH-HRS	143. PASS-HRS	1958. VEH-HRS	2271. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	123. VEH-HRS	143. PASS-HRS	1958. VEH-HRS	2271. PASS-HRS
TOTAL TRAV DISTANCE =	7557. VEH-MI.	8766. PASS-MI.	119718. VEH-MI.	138873. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		18. VPMPL	
TOTAL FUEL =	404. GALLONS		6358. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		512. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1832.	0.	1832.	1832.	0.	1832.	3850.	0.	0.	0.	.48	50.	18.3	C	17.4	2.3
2	2	2070.	620.	0.	2452.	620.	0.	2452.	3842.	8.	0.	0.	.64	50.	24.5	C	15.9	2.3
3	3	2300.	1260.	248.	3712.	1260.	248.	3712.	5544.	156.	0.	0.	.67	55.	22.5	C	14.0	2.4
4	3	1020.	0.	0.	3464.	0.	0.	3464.	5700.	0.	0.	0.	.61	62.	18.6	C	19.9	4.8
5	3	710.	172.	0.	3636.	172.	0.	3636.	5700.	0.	0.	0.	.64	62.	19.5	C	16.1	4.4
6	3	3820.	324.	848.	3960.	324.	848.	3960.	6150.	0.	0.	0.	.64	62.	21.3	C	17.1	4.8
7	2	1220.	0.	0.	3112.	0.	0.	3112.	4400.	0.	0.	0.	.71	62.	25.1	C	18.2	4.3
8	3	4810.	492.	848.	3604.	492.	848.	3604.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
9	2	1370.	0.	0.	2756.	0.	0.	2756.	4000.	0.	0.	0.	.69	62.	22.2	C	23.6	4.4
10	2	660.	152.	0.	2908.	152.	0.	2908.	4387.	13.	0.	0.	.66	62.	23.5	C	23.6	4.4
11	3	790.	580.	652.	3488.	580.	652.	3488.	5613.	487.	0.	0.	.62	62.	18.8	C	30.0	4.4
12	2	1460.	0.	0.	2836.	0.	0.	2836.	4100.	0.	0.	0.	.69	62.	22.9	C	20.6	4.4
13	3	1400.	372.	0.	3208.	372.	0.	3208.	6040.	60.	0.	0.	.53	62.	17.2	B	13.6	4.4
14	3	2600.	0.	512.	3208.	0.	512.	3208.	6040.	60.	0.	0.	.53	62.	17.2	B	20.6	4.4
15	2	2010.	0.	0.	2696.	0.	0.	2696.	3900.	0.	0.	0.	.69	62.	21.7	C	14.7	4.4
16	3	6120.	272.	656.	2968.	272.	656.	2968.	6100.	0.	0.	0.	.49	62.	16.0	B	18.2	4.4
17	2	1240.	0.	0.	2312.	0.	0.	2312.	4300.	0.	0.	0.	.54	62.	18.6	C	18.2	4.4
18	3	930.	256.	0.	2568.	256.	0.	2568.	6100.	0.	0.	0.	.42	62.	13.8	B	20.6	4.4
19	3	5330.	136.	460.	2704.	136.	460.	2704.	6100.	0.	0.	0.	.44	62.	14.5	B	20.6	4.4
20	2	2830.	0.	0.	2244.	0.	0.	2244.	3800.	0.	0.	0.	.59	61.	18.4	C	21.1	3.8
21	3	1660.	232.	380.	2476.	232.	380.	2476.	6100.	0.	0.	0.	.41	61.	13.5	B	21.1	3.8
22	2	2270.	0.	0.	2096.	0.	0.	2096.	4400.	0.	0.	0.	.48	62.	16.9	B	20.6	4.4
23	2	3040.	88.	244.	2184.	88.	244.	2184.	4100.	0.	0.	0.	.53	62.	17.6	B	20.6	4.4
24	2	2190.	0.	0.	1940.	0.	0.	1940.	4200.	0.	0.	0.	.46	65.	14.9	B	19.2	6.1
25	3	2400.	68.	2008.	2008.	68.	2008.	2008.	6150.	0.	0.	0.	.33	65.	10.3	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.71		LOWEST LOS = C	AVG = 61.	18.1		18.6	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 17 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	121. VEH-HRS	141. PASS-HRS	2079. VEH-HRS	2412. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	121. VEH-HRS	141. PASS-HRS	2079. VEH-HRS	2412. PASS-HRS
TOTAL TRAV DISTANCE =	7410. VEH-MI.	8596. PASS-MI.	127128. VEH-MI.	147469. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	18. VPMPL		18. VPMPL	
TOTAL FUEL =	398. GALLONS		6756. GALLONS	
TOTAL EMISSIONS =	32. KILOGRAMS		544. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1844.	0.	1844.	1844.	0.	1844.	3850.	0.	0.	0.	.48	50.	18.4	C	17.4	2.3
2	2	2070.	648.	0.	2492.	648.	0.	2492.	3842.	8.	0.	0.	.65	50.	24.9	C	15.9	2.3
3	3	2300.	1340.	248.	3832.	1340.	248.	3832.	5539.	161.	0.	0.	.69	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3584.	0.	0.	3584.	5700.	0.	0.	0.	.63	62.	19.3	C	19.9	4.8
5	3	710.	220.	0.	3804.	220.	0.	3804.	5700.	0.	0.	0.	.67	62.	20.5	C	16.1	4.4
6	3	3820.	400.	880.	4204.	400.	880.	4204.	6150.	0.	0.	0.	.68	62.	22.6	C	17.1	4.8
7	2	1220.	0.	0.	3324.	0.	0.	3324.	4400.	0.	0.	0.	.76	62.	27.0	D	18.3	4.1
8	3	4810.	468.	784.	3792.	468.	784.	3792.	6100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
9	2	1370.	0.	0.	3008.	0.	0.	3008.	4000.	0.	0.	0.	.75	62.	24.3	C	23.6	4.4
10	2	660.	204.	0.	3212.	204.	0.	3212.	4384.	16.	0.	0.	.73	62.	26.0	C	23.7	4.3
11	3	790.	604.	656.	3816.	604.	656.	3816.	5580.	520.	0.	0.	.68	62.	20.5	C	30.0	4.4
12	2	1460.	0.	0.	3160.	0.	0.	3160.	4100.	0.	0.	0.	.77	61.	25.7	C	20.8	4.0
13	3	1400.	396.	0.	3556.	396.	0.	3556.	6028.	72.	0.	0.	.59	62.	19.1	C	13.6	4.4
14	3	2600.	0.	648.	3556.	0.	648.	3556.	6028.	72.	0.	0.	.59	62.	19.1	C	20.6	4.4
15	2	2010.	0.	0.	2908.	0.	0.	2908.	3900.	0.	0.	0.	.75	62.	23.5	C	14.7	4.4
16	3	6120.	308.	580.	3216.	308.	580.	3216.	6100.	0.	0.	0.	.53	62.	17.3	B	18.2	4.4
17	2	1240.	0.	0.	2636.	0.	0.	2636.	4300.	0.	0.	0.	.61	62.	21.3	C	18.2	4.4
18	3	930.	308.	0.	2944.	308.	0.	2944.	6100.	0.	0.	0.	.48	62.	15.8	B	20.6	4.4
19	3	5330.	116.	428.	3060.	116.	428.	3060.	6093.	7.	0.	0.	.50	62.	16.5	B	20.6	4.4
20	2	2830.	0.	0.	2632.	0.	0.	2632.	3800.	0.	0.	0.	.69	61.	21.6	C	21.1	3.8
21	3	1660.	312.	372.	2944.	312.	372.	2944.	6100.	0.	0.	0.	.48	61.	16.1	B	21.1	3.8
22	2	2270.	0.	0.	2572.	0.	0.	2572.	4400.	0.	0.	0.	.58	62.	20.7	C	20.6	4.4
23	2	3040.	72.	264.	2644.	72.	264.	2644.	4100.	0.	0.	0.	.64	62.	21.3	C	20.6	4.4
24	2	2190.	0.	0.	2380.	0.	0.	2380.	4200.	0.	0.	0.	.57	65.	18.3	C	19.2	6.1
25	3	2400.	88.	2468.	2468.	88.	2468.	2468.	6150.	0.	0.	0.	.40	65.	12.7	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.77		LOWEST LOS = D	AVG = 61.	20.1		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2213. VEH-HRS	2567. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2213. VEH-HRS	2567. PASS-HRS
TOTAL TRAV DISTANCE =	8186. VEH-MI.	9496. PASS-MI.	135314. VEH-MI.	156964. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		19. VPMPL	
TOTAL FUEL =	438. GALLONS		7193. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		579. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1820.	0.	1820.	1820.	0.	1820.	3850.	0.	0.	0.	.47	50.	18.2	C	17.4	2.3
2	2	2070.	620.	0.	2440.	620.	0.	2440.	3843.	7.	0.	0.	.63	50.	24.4	C	15.9	2.3
3	3	2300.	1312.	248.	3752.	1312.	248.	3752.	5540.	160.	0.	0.	.68	55.	22.7	C	14.0	2.4
4	3	1020.	0.	0.	3504.	0.	0.	3504.	5700.	0.	0.	0.	.61	62.	18.8	C	19.9	4.8
5	3	710.	212.	0.	3716.	212.	0.	3716.	5700.	0.	0.	0.	.65	62.	20.0	C	16.1	4.4
6	3	3820.	292.	880.	4008.	292.	880.	4008.	6150.	0.	0.	0.	.65	62.	21.5	C	17.1	4.8
7	2	1220.	0.	0.	3128.	0.	0.	3128.	4400.	0.	0.	0.	.71	62.	25.3	C	18.2	4.3
8	3	4810.	500.	760.	3628.	500.	760.	3628.	6100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
9	2	1370.	0.	0.	2868.	0.	0.	2868.	4000.	0.	0.	0.	.72	62.	23.1	C	23.6	4.4
10	2	660.	220.	0.	3088.	220.	0.	3088.	4385.	15.	0.	0.	.70	62.	24.9	C	23.6	4.3
11	3	790.	636.	556.	3724.	636.	556.	3724.	5623.	477.	0.	0.	.66	62.	20.0	C	30.0	4.4
12	2	1460.	0.	0.	3168.	0.	0.	3168.	4100.	0.	0.	0.	.77	61.	25.8	C	20.9	4.0
13	3	1400.	380.	0.	3548.	380.	0.	3548.	6020.	80.	0.	0.	.59	62.	19.1	C	13.6	4.4
14	3	2600.	0.	744.	3548.	0.	744.	3548.	6020.	80.	0.	0.	.59	62.	19.1	C	20.6	4.4
15	2	2010.	0.	0.	2804.	0.	0.	2804.	3900.	0.	0.	0.	.72	62.	22.6	C	14.7	4.4
16	3	6120.	260.	580.	3064.	260.	580.	3064.	6100.	0.	0.	0.	.50	62.	16.5	B	18.2	4.4
17	2	1240.	0.	0.	2484.	0.	0.	2484.	4300.	0.	0.	0.	.58	62.	20.0	C	18.2	4.4
18	3	930.	300.	0.	2784.	300.	0.	2784.	6100.	0.	0.	0.	.46	62.	15.0	B	20.6	4.4
19	3	5330.	92.	496.	2876.	92.	496.	2876.	6096.	4.	0.	0.	.47	62.	15.5	B	20.6	4.4
20	2	2830.	0.	0.	2380.	0.	0.	2380.	3800.	0.	0.	0.	.63	61.	19.5	C	21.1	3.8
21	3	1660.	316.	416.	2696.	316.	416.	2696.	6100.	0.	0.	0.	.44	61.	14.7	B	21.1	3.8
22	2	2270.	0.	0.	2280.	0.	0.	2280.	4400.	0.	0.	0.	.52	62.	18.4	C	20.6	4.4
23	2	3040.	80.	240.	2360.	80.	240.	2360.	4100.	0.	0.	0.	.58	62.	19.0	C	20.6	4.4
24	2	2190.	0.	0.	2120.	0.	0.	2120.	4200.	0.	0.	0.	.50	65.	16.3	B	19.2	6.1
25	3	2400.	112.	2232.	2232.	112.	2232.	2232.	6150.	0.	0.	0.	.36	65.	11.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.77		LOWEST LOS = C	AVG = 61.	19.0		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	127. VEH-HRS	147. PASS-HRS	2340. VEH-HRS	2714. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	127. VEH-HRS	147. PASS-HRS	2340. VEH-HRS	2714. PASS-HRS
TOTAL TRAV DISTANCE =	7768. VEH-MI.	9010. PASS-MI.	143082. VEH-MI.	165975. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	19. VPMPL		19. VPMPL	
TOTAL FUEL =	416. GALLONS		7610. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		613. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2132.	0.	2132.	2132.	0.	2132.	3850.	0.	0.	0.	.55	50.	21.3	C	17.4	2.3
2	2	2070.	736.	0.	2868.	736.	0.	2868.	3832.	18.	0.	0.	.75	50.	28.7	D	15.9	2.3
3	3	2300.	1548.	384.	4416.	1548.	384.	4416.	5430.	270.	0.	0.	.81	55.	26.8	D	14.0	2.4
4	3	1020.	0.	0.	4032.	0.	0.	4032.	5700.	0.	0.	0.	.71	62.	21.7	C	19.9	4.8
5	3	710.	200.	0.	4232.	200.	0.	4232.	5700.	0.	0.	0.	.74	62.	22.8	C	16.1	4.4
6	3	3820.	396.	888.	4628.	396.	888.	4628.	6150.	0.	0.	0.	.75	62.	25.0	C	17.3	4.6
7	2	1220.	0.	0.	3740.	0.	0.	3740.	4400.	0.	0.	0.	.85	60.	31.3	D	19.1	3.1
8	3	4810.	560.	860.	4300.	560.	860.	4300.	6100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
9	2	1370.	0.	0.	3440.	0.	0.	3440.	4000.	0.	0.	0.	.86	59.	28.9	D	25.0	3.0
10	2	660.	276.	0.	3716.	276.	0.	3716.	4380.	20.	0.	0.	.85	60.	31.1	D	24.9	3.1
11	3	790.	668.	728.	4384.	668.	728.	4384.	5520.	580.	0.	0.	.79	62.	23.6	C	30.0	4.4
12	2	1460.	0.	0.	3656.	0.	0.	3656.	4100.	0.	0.	0.	.89	58.	31.4	D	22.2	2.8
13	3	1400.	404.	0.	4060.	404.	0.	4060.	5996.	104.	0.	0.	.68	62.	21.8	C	13.6	4.4
14	3	2600.	0.	1048.	4060.	0.	1048.	4060.	5996.	104.	0.	0.	.68	62.	21.8	C	20.6	4.4
15	2	2010.	0.	0.	3012.	0.	0.	3012.	3900.	0.	0.	0.	.77	62.	24.3	C	14.7	4.4
16	3	6120.	384.	696.	3396.	384.	696.	3396.	6100.	0.	0.	0.	.56	62.	18.3	C	18.2	4.4
17	2	1240.	0.	0.	2700.	0.	0.	2700.	4300.	0.	0.	0.	.63	62.	21.8	C	18.2	4.4
18	3	930.	436.	0.	3136.	436.	0.	3136.	6100.	0.	0.	0.	.51	62.	16.9	B	20.6	4.4
19	3	5330.	76.	472.	3212.	76.	472.	3212.	6086.	14.	0.	0.	.53	62.	17.3	B	20.6	4.4
20	2	2830.	0.	0.	2740.	0.	0.	2740.	3800.	0.	0.	0.	.72	61.	22.5	C	21.1	3.8
21	3	1660.	256.	380.	2996.	256.	380.	2996.	6100.	0.	0.	0.	.49	61.	16.4	B	21.1	3.8
22	2	2270.	0.	0.	2616.	0.	0.	2616.	4400.	0.	0.	0.	.59	62.	21.1	C	20.6	4.4
23	2	3040.	108.	244.	2724.	108.	244.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	20.6	4.4
24	2	2190.	0.	0.	2480.	0.	0.	2480.	4200.	0.	0.	0.	.59	65.	19.1	C	19.2	6.1
25	3	2400.	60.	2540.	2540.	60.	2540.	2540.	6150.	0.	0.	0.	.41	65.	13.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.89		LOWEST LOS = D	AVG = 61.	21.9		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	146. VEH-HRS	170. PASS-HRS	2486. VEH-HRS	2884. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	146. VEH-HRS	170. PASS-HRS	2486. VEH-HRS	2884. PASS-HRS
TOTAL TRAV DISTANCE =	8906. VEH-MI.	10331. PASS-MI.	151988. VEH-MI.	176306. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	22. VPMPL		19. VPMPL	
TOTAL FUEL =	474. GALLONS		8084. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		650. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2000.	0.	2000.	2000.	0.	2000.	3850.	0.	0.	0.	.52	50.	20.0	C	17.4	2.3
2	2	2070.	432.	0.	2432.	432.	0.	2432.	3843.	7.	0.	0.	.63	50.	24.3	C	15.9	2.3
3	3	2300.	1424.	240.	3856.	1424.	240.	3856.	5540.	160.	0.	0.	.70	55.	23.4	C	14.0	2.4
4	3	1020.	0.	0.	3616.	0.	0.	3616.	5700.	0.	0.	0.	.63	62.	19.4	C	19.9	4.8
5	3	710.	196.	0.	3812.	196.	0.	3812.	5700.	0.	0.	0.	.67	62.	20.5	C	16.1	4.4
6	3	3820.	328.	808.	4140.	328.	808.	4140.	6150.	0.	0.	0.	.67	62.	22.3	C	17.1	4.8
7	2	1220.	0.	0.	3332.	0.	0.	3332.	4400.	0.	0.	0.	.76	62.	27.0	D	18.3	4.1
8	3	4810.	492.	688.	3824.	492.	688.	3824.	6100.	0.	0.	0.	.63	62.	20.6	C	20.6	4.4
9	2	1370.	0.	0.	3136.	0.	0.	3136.	4000.	0.	0.	0.	.78	61.	25.6	C	24.0	3.9
10	2	660.	280.	0.	3416.	280.	0.	3416.	4376.	24.	0.	0.	.78	61.	27.8	D	24.0	4.0
11	3	790.	672.	740.	4088.	672.	740.	4088.	5520.	580.	0.	0.	.74	62.	22.0	C	30.0	4.4
12	2	1460.	0.	0.	3348.	0.	0.	3348.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
13	3	1400.	436.	0.	3784.	436.	0.	3784.	6016.	84.	0.	0.	.63	62.	20.3	C	13.6	4.4
14	3	2600.	0.	740.	3784.	0.	740.	3784.	6016.	84.	0.	0.	.63	62.	20.3	C	20.6	4.4
15	2	2010.	0.	0.	3044.	0.	0.	3044.	3900.	0.	0.	0.	.78	62.	24.5	C	14.7	4.4
16	3	6120.	376.	656.	3420.	376.	656.	3420.	6100.	0.	0.	0.	.56	62.	18.4	C	18.2	4.4
17	2	1240.	0.	0.	2764.	0.	0.	2764.	4300.	0.	0.	0.	.64	62.	22.3	C	18.2	4.4
18	3	930.	460.	0.	3224.	460.	0.	3224.	6100.	0.	0.	0.	.53	62.	17.3	B	20.6	4.4
19	3	5330.	104.	512.	3328.	104.	512.	3328.	6082.	18.	0.	0.	.55	62.	17.9	B	20.6	4.4
20	2	2830.	0.	0.	2816.	0.	0.	2816.	3800.	0.	0.	0.	.74	61.	23.1	C	21.1	3.8
21	3	1660.	320.	424.	3136.	320.	424.	3136.	6100.	0.	0.	0.	.51	61.	17.1	B	21.1	3.8
22	2	2270.	0.	0.	2712.	0.	0.	2712.	4400.	0.	0.	0.	.62	62.	21.9	C	20.6	4.4
23	2	3040.	100.	324.	2812.	100.	324.	2812.	4100.	0.	0.	0.	.69	62.	22.7	C	20.6	4.4
24	2	2190.	0.	0.	2488.	0.	0.	2488.	4200.	0.	0.	0.	.59	65.	19.1	C	19.2	6.1
25	3	2400.	72.	2560.	2560.	72.	2560.	2560.	6150.	0.	0.	0.	.42	65.	13.1	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.82 LOWEST LOS = D AVG = 61. 20.9 18.8 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	162. PASS-HRS	2626. VEH-HRS	3046. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	162. PASS-HRS	2626. VEH-HRS	3046. PASS-HRS
TOTAL TRAV DISTANCE =	8526. VEH-MI.	9890. PASS-MI.	160514. VEH-MI.	186196. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		19. VPMPL	
TOTAL FUEL =	455. GALLONS		8539. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		686. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1744.	0.	1744.	1744.	0.	1744.	3850.	0.	0.	0.	.45	50.	17.4	B	17.4	2.3
2	2	2070.	564.	0.	2308.	564.	0.	2308.	3845.	5.	0.	0.	.60	50.	23.1	C	15.9	2.3
3	3	2300.	1396.	296.	3704.	1396.	296.	3704.	5518.	182.	0.	0.	.67	55.	22.4	C	14.0	2.4
4	3	1020.	0.	0.	3408.	0.	0.	3408.	5700.	0.	0.	0.	.60	62.	18.3	C	19.9	4.8
5	3	710.	236.	0.	3644.	236.	0.	3644.	5700.	0.	0.	0.	.64	62.	19.6	C	16.1	4.4
6	3	3820.	384.	892.	4028.	384.	892.	4028.	6150.	0.	0.	0.	.65	62.	21.7	C	17.1	4.8
7	2	1220.	0.	0.	3136.	0.	0.	3136.	4400.	0.	0.	0.	.71	62.	25.3	C	18.2	4.3
8	3	4810.	632.	804.	3768.	632.	804.	3768.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	2964.	0.	0.	2964.	4000.	0.	0.	0.	.74	62.	23.9	C	23.6	4.4
10	2	660.	396.	0.	3360.	396.	0.	3360.	4367.	33.	0.	0.	.77	61.	27.3	D	23.9	4.1
11	3	790.	684.	740.	4044.	684.	740.	4044.	5501.	599.	0.	0.	.74	62.	21.7	C	30.0	4.4
12	2	1460.	0.	0.	3304.	0.	0.	3304.	4100.	0.	0.	0.	.81	61.	27.1	D	21.1	3.7
13	3	1400.	304.	0.	3608.	304.	0.	3608.	6060.	40.	0.	0.	.60	62.	19.4	C	13.6	4.4
14	3	2600.	0.	492.	3608.	0.	492.	3608.	6060.	40.	0.	0.	.60	62.	19.4	C	20.6	4.4
15	2	2010.	0.	0.	3116.	0.	0.	3116.	3900.	0.	0.	0.	.80	61.	25.5	C	15.0	3.8
16	3	6120.	352.	640.	3468.	352.	640.	3468.	6100.	0.	0.	0.	.57	62.	18.6	C	18.2	4.4
17	2	1240.	0.	0.	2828.	0.	0.	2828.	4300.	0.	0.	0.	.66	62.	22.8	C	18.2	4.4
18	3	930.	316.	0.	3144.	316.	0.	3144.	6100.	0.	0.	0.	.52	62.	16.9	B	20.6	4.4
19	3	5330.	156.	600.	3300.	156.	600.	3300.	6088.	12.	0.	0.	.54	62.	17.7	B	20.6	4.4
20	2	2830.	0.	0.	2700.	0.	0.	2700.	3800.	0.	0.	0.	.71	61.	22.1	C	21.1	3.8
21	3	1660.	292.	360.	2992.	292.	360.	2992.	6100.	0.	0.	0.	.49	61.	16.3	B	21.1	3.8
22	2	2270.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	20.6	4.4
23	2	3040.	88.	376.	2720.	88.	376.	2720.	4100.	0.	0.	0.	.66	62.	21.9	C	20.6	4.4
24	2	2190.	0.	0.	2344.	0.	0.	2344.	4200.	0.	0.	0.	.56	65.	18.0	C	19.2	6.1
25	3	2400.	104.	2448.	2448.	104.	2448.	2448.	6150.	0.	0.	0.	.40	65.	12.6	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.81		LOWEST LOS = D	AVG = 61.	20.4		18.8	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	158. PASS-HRS	2761. VEH-HRS	3203. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	136. VEH-HRS	158. PASS-HRS	2761. VEH-HRS	3203. PASS-HRS
TOTAL TRAV DISTANCE =	8317. VEH-MI.	9648. PASS-MI.	168831. VEH-MI.	195844. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		19. VPMPL	
TOTAL FUEL =	443. GALLONS		8982. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		722. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1880.	0.	1880.	1880.	0.	1880.	3850.	0.	0.	0.	.49	50.	18.8	C	17.4	2.3
2	2	2070.	568.	0.	2448.	568.	0.	2448.	3841.	9.	0.	0.	.64	50.	24.5	C	15.9	2.3
3	3	2300.	1532.	324.	3980.	1532.	324.	3980.	5489.	211.	0.	0.	.73	55.	24.1	C	14.0	2.4
4	3	1020.	0.	0.	3656.	0.	0.	3656.	5700.	0.	0.	0.	.64	62.	19.7	C	19.9	4.8
5	3	710.	168.	0.	3824.	168.	0.	3824.	5700.	0.	0.	0.	.67	62.	20.6	C	16.1	4.4
6	3	3820.	352.	896.	4176.	352.	896.	4176.	6150.	0.	0.	0.	.68	62.	22.5	C	17.1	4.8
7	2	1220.	0.	0.	3280.	0.	0.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	18.3	4.2
8	3	4810.	636.	836.	3916.	636.	836.	3916.	6100.	0.	0.	0.	.64	62.	21.1	C	20.6	4.4
9	2	1370.	0.	0.	3080.	0.	0.	3080.	4000.	0.	0.	0.	.77	62.	24.8	C	23.6	4.4
10	2	660.	248.	0.	3328.	248.	0.	3328.	4380.	20.	0.	0.	.76	62.	27.0	D	23.8	4.1
11	3	790.	724.	720.	4052.	724.	720.	4052.	5484.	616.	0.	0.	.74	62.	21.8	C	30.0	4.4
12	2	1460.	0.	0.	3332.	0.	0.	3332.	4100.	0.	0.	0.	.81	61.	27.4	D	21.2	3.6
13	3	1400.	420.	0.	3752.	420.	0.	3752.	6036.	64.	0.	0.	.62	62.	20.2	C	13.6	4.4
14	3	2600.	0.	572.	3752.	0.	572.	3752.	6036.	64.	0.	0.	.62	62.	20.2	C	20.6	4.4
15	2	2010.	0.	0.	3180.	0.	0.	3180.	3900.	0.	0.	0.	.82	61.	26.2	D	15.1	3.6
16	3	6120.	376.	896.	3556.	376.	896.	3556.	6100.	0.	0.	0.	.58	62.	19.1	C	18.2	4.4
17	2	1240.	0.	0.	2660.	0.	0.	2660.	4300.	0.	0.	0.	.62	62.	21.5	C	18.2	4.4
18	3	930.	312.	0.	2972.	312.	0.	2972.	6100.	0.	0.	0.	.49	62.	16.0	B	20.6	4.4
19	3	5330.	132.	484.	3104.	132.	484.	3104.	6092.	8.	0.	0.	.51	62.	16.7	B	20.6	4.4
20	2	2830.	0.	0.	2620.	0.	0.	2620.	3800.	0.	0.	0.	.69	61.	21.5	C	21.1	3.8
21	3	1660.	340.	452.	2960.	340.	452.	2960.	6100.	0.	0.	0.	.49	61.	16.2	B	21.1	3.8
22	2	2270.	0.	0.	2508.	0.	0.	2508.	4400.	0.	0.	0.	.57	62.	20.2	C	20.6	4.4
23	2	3040.	96.	360.	2604.	96.	360.	2604.	4100.	0.	0.	0.	.64	62.	21.0	C	20.6	4.4
24	2	2190.	0.	0.	2244.	0.	0.	2244.	4200.	0.	0.	0.	.53	65.	17.3	B	19.2	6.1
25	3	2400.	72.	2316.	2316.	72.	2316.	2316.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.82 LOWEST LOS = D AVG = 61. 20.5 18.7 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	159. PASS-HRS	2899. VEH-HRS	3362. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	137. VEH-HRS	159. PASS-HRS	2899. VEH-HRS	3362. PASS-HRS
TOTAL TRAV DISTANCE =	8383. VEH-MI.	9725. PASS-MI.	177215. VEH-MI.	205569. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		19. VPMPL	
TOTAL FUEL =	448. GALLONS		9430. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		758. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1944.	0.	1944.	1944.	0.	1944.	3850.	0.	0.	0.	.50	50.	19.4	C	17.4	2.3
2	2	2070.	600.	0.	2544.	600.	0.	2544.	3839.	11.	0.	0.	.66	50.	25.4	C	15.9	2.3
3	3	2300.	1660.	364.	4204.	1660.	364.	4204.	5466.	234.	0.	0.	.77	55.	25.5	C	14.0	2.4
4	3	1020.	0.	0.	3840.	0.	0.	3840.	5700.	0.	0.	0.	.67	62.	20.6	C	19.9	4.8
5	3	710.	208.	0.	4048.	208.	0.	4048.	5700.	0.	0.	0.	.71	62.	21.8	C	16.1	4.4
6	3	3820.	392.	948.	4440.	392.	948.	4440.	6150.	0.	0.	0.	.72	62.	23.9	C	17.1	4.8
7	2	1220.	0.	0.	3492.	0.	0.	3492.	4400.	0.	0.	0.	.79	61.	28.6	D	18.5	3.8
8	3	4810.	588.	908.	4080.	588.	908.	4080.	6100.	0.	0.	0.	.67	62.	21.9	C	20.6	4.4
9	2	1370.	0.	0.	3172.	0.	0.	3172.	4000.	0.	0.	0.	.79	61.	25.9	C	24.1	3.8
10	2	660.	244.	0.	3416.	244.	0.	3416.	4378.	22.	0.	0.	.78	61.	27.8	D	24.0	4.0
11	3	790.	752.	824.	4168.	752.	824.	4168.	5470.	630.	0.	0.	.76	62.	22.4	C	30.0	4.4
12	2	1460.	0.	0.	3344.	0.	0.	3344.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
13	3	1400.	448.	0.	3792.	448.	0.	3792.	6016.	84.	0.	0.	.63	62.	20.4	C	13.6	4.4
14	3	2600.	0.	704.	3792.	0.	704.	3792.	6016.	84.	0.	0.	.63	62.	20.4	C	20.6	4.4
15	2	2010.	0.	0.	3088.	0.	0.	3088.	3900.	0.	0.	0.	.79	61.	25.2	C	14.9	3.9
16	3	6120.	260.	664.	3348.	260.	664.	3348.	6100.	0.	0.	0.	.55	62.	18.0	B	18.2	4.4
17	2	1240.	0.	0.	2684.	0.	0.	2684.	4300.	0.	0.	0.	.62	62.	21.6	C	18.2	4.4
18	3	930.	272.	0.	2956.	272.	0.	2956.	6100.	0.	0.	0.	.48	62.	15.9	B	20.6	4.4
19	3	5330.	140.	524.	3096.	140.	524.	3096.	6092.	8.	0.	0.	.51	62.	16.6	B	20.6	4.4
20	2	2830.	0.	0.	2572.	0.	0.	2572.	3800.	0.	0.	0.	.68	61.	21.1	C	21.1	3.8
21	3	1660.	316.	416.	2888.	316.	416.	2888.	6100.	0.	0.	0.	.47	61.	15.8	B	21.1	3.8
22	2	2270.	0.	0.	2472.	0.	0.	2472.	4400.	0.	0.	0.	.56	62.	19.9	C	20.6	4.4
23	2	3040.	96.	336.	2568.	96.	336.	2568.	4100.	0.	0.	0.	.63	62.	20.7	C	20.6	4.4
24	2	2190.	0.	0.	2232.	0.	0.	2232.	4200.	0.	0.	0.	.53	65.	17.2	B	19.2	6.1
25	3	2400.	120.	2352.	2352.	120.	2352.	2352.	6150.	0.	0.	0.	.38	65.	12.1	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.82		LOWEST LOS = D	AVG = 61.	20.7		18.7	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	3037. VEH-HRS	3523. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	139. VEH-HRS	161. PASS-HRS	3037. VEH-HRS	3523. PASS-HRS
TOTAL TRAV DISTANCE =	8465. VEH-MI.	9820. PASS-MI.	185680. VEH-MI.	215389. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	21. VPMPL		19. VPMPL	
TOTAL FUEL =	453. GALLONS		9883. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		794. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME (VEH-HR)	FREEWAY TRAVEL TIME (PAS-HR)	RAMP DELAY (VEH-HR)	RAMP DELAY (PAS-HR)	TOTAL FREEWAY TRAVEL TIME (VEH-HR)	TOTAL FREEWAY TRAVEL TIME (PAS-HR)	TOTAL TRAVEL DISTANCE (VEH-MI)	TOTAL TRAVEL DISTANCE (PAS-MI)	AVERAGE SPEED (MPH)	GASOLINE CONSUMED (GALLONS)	HYDROCARB EMISSIONS (KILOGRAMS)	CARBON MONOXIDE (KILOGRAMS)	NITROUS OXIDES (KILOGRAMS)	BEGIN TIME
1	64.	74.	0.	0.	64.	74.	3947.	4578.	61.5	209.	1.	13.	3.	14:00
2	80.	93.	0.	0.	80.	93.	4912.	5698.	61.4	261.	1.	16.	4.	14:15
3	115.	134.	0.	0.	115.	134.	7083.	8216.	61.4	376.	1.	24.	6.	14:30
4	139.	161.	0.	0.	139.	161.	8464.	9819.	61.0	447.	1.	27.	7.	14:45
5	116.	134.	0.	0.	116.	134.	7105.	8241.	61.5	376.	1.	24.	6.	15:00
6	133.	154.	0.	0.	133.	154.	8152.	9457.	61.3	431.	1.	27.	7.	15:15
7	148.	172.	0.	0.	148.	172.	9025.	10469.	60.9	473.	1.	28.	8.	15:30
8	155.	179.	0.	0.	155.	179.	9380.	10881.	60.6	491.	1.	28.	8.	15:45
9	151.	175.	0.	0.	151.	175.	9212.	10686.	60.9	490.	1.	29.	8.	16:00
10	120.	140.	0.	0.	120.	140.	7382.	8563.	61.3	394.	1.	24.	7.	16:15
11	140.	162.	0.	0.	140.	162.	8553.	9922.	61.2	456.	1.	28.	8.	16:30
12	118.	137.	0.	0.	118.	137.	7216.	8370.	61.2	387.	1.	24.	6.	16:45
13	115.	133.	0.	0.	115.	133.	7040.	8166.	61.3	376.	1.	23.	6.	17:00
14	122.	142.	0.	0.	122.	142.	7448.	8639.	61.1	399.	1.	24.	7.	17:15
15	118.	137.	0.	0.	118.	137.	7241.	8400.	61.2	388.	1.	24.	6.	17:30
16	123.	143.	0.	0.	123.	143.	7557.	8766.	61.2	404.	1.	25.	7.	17:45
17	121.	141.	0.	0.	121.	141.	7410.	8596.	61.1	398.	1.	24.	7.	18:00
18	134.	155.	0.	0.	134.	155.	8186.	9496.	61.2	438.	1.	27.	7.	18:15
19	127.	147.	0.	0.	127.	147.	7768.	9010.	61.1	416.	1.	25.	7.	18:30
20	146.	170.	0.	0.	146.	170.	8906.	10331.	60.8	474.	1.	28.	8.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	139.	162.	0.	0.	139.	162.	8526.	9890.	61.2	455.	1.	28.	8.	19:00
22	136.	158.	0.	0.	136.	158.	8317.	9648.	61.2	443.	1.	27.	7.	19:15
23	137.	159.	0.	0.	137.	159.	8383.	9725.	61.1	448.	1.	27.	7.	19:30
24	139.	161.	0.	0.	139.	161.	8465.	9820.	61.1	453.	1.	27.	8.	19:45
TOTAL	3037.	3523.	0.	0.	3037.	3523.	185680.	215389.	61.1	9883.	27.	601.	165.	

Horizon Year (2045) Interim Build
(Aux Lanes Only)
Southbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2176.	0.	2176.	2176.	0.	2176.	3850.	0.	0.	0.	.57	50.	21.8	C	17.4	2.3
2	2	2070.	624.	0.	2800.	624.	0.	2800.	3836.	14.	0.	0.	.73	50.	28.0	D	15.9	2.3
3	3	2300.	1688.	328.	4488.	1688.	328.	4488.	5880.	220.	0.	0.	.76	55.	27.2	D	14.0	2.4
4	3	1020.	0.	0.	4160.	0.	0.	4160.	6100.	0.	0.	0.	.68	62.	22.4	C	19.9	4.8
5	3	710.	188.	0.	4348.	188.	0.	4348.	6100.	0.	0.	0.	.71	62.	23.4	C	16.1	4.4
6	3	3820.	392.	1060.	4740.	392.	1060.	4740.	6104.	46.	0.	0.	.78	61.	25.7	C	17.4	4.5
7	2	1220.	0.	0.	3680.	0.	0.	3680.	4400.	0.	0.	0.	.84	60.	30.6	D	19.0	3.3
8	3	4810.	592.	720.	4272.	592.	720.	4272.	6100.	0.	0.	0.	.70	62.	23.0	C	20.6	4.4
9	2	1370.	0.	0.	3552.	0.	0.	3552.	4000.	0.	0.	0.	.89	58.	30.4	D	25.5	2.8
10	2	660.	300.	0.	3852.	300.	0.	3852.	4375.	25.	0.	0.	.88	59.	32.8	D	25.4	2.9
11	3	790.	788.	876.	4640.	788.	876.	4640.	5429.	671.	0.	0.	.85	60.	25.9	C	31.9	3.1
12	2	1460.	0.	0.	3764.	0.	0.	3764.	4100.	0.	0.	0.	.92	57.	33.0	D	22.5	2.5
13	3	1400.	536.	0.	4300.	536.	0.	4300.	6024.	76.	0.	0.	.71	62.	23.1	C	13.6	4.4
14	3	2600.	0.	616.	4300.	0.	616.	4300.	6024.	76.	0.	0.	.71	62.	23.1	C	20.6	4.4
15	2	2010.	0.	0.	3684.	0.	0.	3684.	3900.	0.	0.	0.	.94	55.	33.2	D	16.3	2.1
16	3	6120.	432.	676.	4116.	432.	676.	4116.	6100.	0.	0.	0.	.67	62.	22.1	C	18.2	4.4
17	2	1240.	0.	0.	3440.	0.	0.	3440.	4300.	0.	0.	0.	.80	61.	28.2	D	18.6	3.8
18	3	930.	524.	0.	3964.	524.	0.	3964.	6099.	1.	0.	0.	.65	62.	21.3	C	20.6	4.4
19	3	5330.	116.	556.	4080.	116.	556.	4080.	6063.	37.	0.	0.	.67	62.	21.9	C	20.6	4.4
20	2	2830.	0.	0.	3524.	0.	0.	3524.	3800.	0.	0.	0.	.93	56.	31.4	D	22.8	2.2
21	3	1660.	460.	564.	3984.	460.	564.	3984.	5922.	178.	0.	0.	.67	61.	21.8	C	21.1	3.8
22	2	2270.	0.	0.	3420.	0.	0.	3420.	4400.	0.	0.	0.	.78	61.	27.9	D	20.9	4.0
23	2	3040.	132.	356.	3552.	132.	356.	3552.	4100.	0.	0.	0.	.87	59.	30.0	D	21.9	3.0
24	2	2190.	0.	0.	3196.	0.	0.	3196.	4200.	0.	0.	0.	.76	64.	25.0	C	19.6	5.5
25	3	2400.	120.	3316.	3316.	120.	3316.	3316.	6150.	0.	0.	0.	.54	65.	17.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.94		LOWEST LOS = D	AVG = 60.	25.0		19.0	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	180. VEH-HRS	213. PASS-HRS	180. VEH-HRS	213. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	180. VEH-HRS	213. PASS-HRS	180. VEH-HRS	213. PASS-HRS
TOTAL TRAV DISTANCE =	10723. VEH-MI.	12653. PASS-MI.	10723. VEH-MI.	12653. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	25. VPMPL		25. VPMPL	
TOTAL FUEL =	564. GALLONS		564. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		41. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2864.	0.	2864.	2864.	0.	2864.	3850.	0.	0.	0.	.74	50.	28.6	D	17.4	2.3
2	2	2070.	568.	0.	3432.	568.	0.	3432.	3830.	20.	0.	0.	.90	50.	34.3	D	15.9	2.3
3	3	2300.	1516.	372.	4948.	1516.	372.	4948.	5818.	282.	0.	0.	.85	55.	30.0	D	14.0	2.4
4	3	1020.	0.	0.	4576.	0.	0.	4576.	6100.	0.	0.	0.	.75	62.	24.6	C	19.9	4.8
5	3	710.	144.	0.	4720.	144.	0.	4720.	6100.	0.	0.	0.	.77	61.	25.6	C	16.3	4.0
6	3	3820.	312.	1248.	5032.	312.	1248.	5032.	6067.	83.	0.	0.	.83	60.	27.8	D	17.8	3.8
7	2	1220.	0.	0.	3784.	0.	0.	3784.	4400.	0.	0.	0.	.86	59.	31.8	D	19.2	3.0
8	3	4810.	636.	728.	4420.	636.	728.	4420.	6100.	0.	0.	0.	.72	62.	23.8	C	20.6	4.4
9	2	1370.	0.	0.	3692.	0.	0.	3692.	4000.	0.	0.	0.	.92	57.	32.6	D	26.3	2.4
10	2	660.	292.	0.	3984.	292.	0.	3984.	4376.	24.	0.	0.	.91	57.	34.7	D	26.0	2.5
11	3	790.	936.	888.	4920.	936.	888.	4920.	5352.	748.	0.	0.	.92	57.	28.8	D	33.9	2.4
12	2	1460.	0.	0.	4032.	0.	0.	4032.	4100.	0.	0.	0.	.98	53.	38.2	E	23.6	2.0
13	3	1400.	500.	0.	4532.	500.	0.	4532.	6032.	68.	0.	0.	.75	62.	24.4	C	13.6	4.4
14	3	2600.	0.	608.	4532.	0.	608.	4508.	6032.	68.	* 157.	24.	.75	57.	26.3	F	20.4	4.4
15	2	2010.	0.	0.	3924.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	448.	696.	4372.	448.	692.	4348.	6100.	0.	0.	0.	.71	62.	23.4	C	18.2	4.4
17	2	1240.	0.	0.	3676.	0.	0.	3656.	4300.	0.	0.	0.	.85	60.	30.6	D	19.1	3.1
18	3	930.	496.	0.	4172.	496.	0.	4152.	6098.	2.	0.	0.	.68	62.	22.3	C	20.6	4.4
19	3	5330.	144.	604.	4316.	144.	601.	4296.	6059.	41.	0.	0.	.71	62.	23.1	C	20.6	4.4
20	2	2830.	0.	0.	3712.	0.	0.	3695.	3800.	0.	0.	0.	.97	53.	34.6	D	23.5	2.0
21	3	1660.	500.	636.	4212.	500.	633.	4195.	5846.	254.	0.	0.	.72	61.	22.9	C	21.1	3.8
22	2	2270.	0.	0.	3576.	0.	0.	3561.	4400.	0.	0.	0.	.81	61.	29.3	D	21.2	3.7
23	2	3040.	92.	428.	3668.	92.	426.	3653.	4100.	0.	0.	0.	.89	58.	31.4	D	22.1	2.8
24	2	2190.	0.	0.	3240.	0.	0.	3227.	4200.	0.	0.	0.	.77	64.	25.3	C	19.7	5.4
25	3	2400.	96.	3336.	3336.	96.	3323.	3323.	6150.	0.	0.	0.	.54	65.	17.0	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 58. 27.5 19.1 3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	197. VEH-HRS	232. PASS-HRS	377. VEH-HRS	445. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	197. VEH-HRS	232. PASS-HRS	377. VEH-HRS	445. PASS-HRS
TOTAL TRAV DISTANCE =	11488. VEH-MI.	13556. PASS-MI.	22211. VEH-MI.	26209. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		59. MPH.	
AVERAGE DENSITY =	28. VPMPL		26. VPMPL	
TOTAL FUEL =	602. GALLONS		1166. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		83. KILOGRAMS	

QUEUE CLEAR SECTION 14 T2 =0.225

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2284.	0.	2284.	2284.	0.	2284.	3850.	0.	0.	0.	.59	50.	22.8	C	17.4	2.3
2	2	2070.	536.	0.	2820.	536.	0.	2820.	3834.	16.	0.	0.	.74	50.	28.2	D	15.9	2.3
3	3	2300.	1784.	400.	4604.	1784.	400.	4604.	5837.	263.	0.	0.	.79	55.	27.9	D	14.0	2.4
4	3	1020.	0.	0.	4204.	0.	0.	4204.	6100.	0.	0.	0.	.69	62.	22.6	C	19.9	4.8
5	3	710.	148.	0.	4352.	148.	0.	4352.	6100.	0.	0.	0.	.71	62.	23.4	C	16.1	4.4
6	3	3820.	312.	1052.	4664.	312.	1052.	4664.	6126.	24.	0.	0.	.76	62.	25.2	C	17.3	4.6
7	2	1220.	0.	0.	3612.	0.	0.	3612.	4400.	0.	0.	0.	.82	61.	29.8	D	18.8	3.5
8	3	4810.	576.	716.	4188.	576.	716.	4188.	6100.	0.	0.	0.	.69	62.	22.5	C	20.6	4.4
9	2	1370.	0.	0.	3472.	0.	0.	3472.	4000.	0.	0.	0.	.87	59.	29.4	D	25.2	3.0
10	2	660.	372.	0.	3844.	372.	0.	3844.	4369.	31.	0.	0.	.88	59.	32.7	D	25.4	2.9
11	3	790.	964.	880.	4808.	964.	880.	4808.	5359.	741.	0.	0.	.90	58.	27.7	D	33.1	2.7
12	2	1460.	0.	0.	3928.	0.	0.	3928.	4100.	0.	0.	0.	.96	55.	36.0	E	23.2	2.0
13	3	1400.	564.	0.	4492.	564.	0.	4492.	6012.	88.	0.	0.	.75	62.	24.2	C	13.6	4.4
14	3	2600.	0.	700.	4492.	0.	700.	4518.	6012.	88.	0.	-26.	.75	58.	26.1	D	20.5	4.4
15	2	2010.	0.	0.	3792.	0.	0.	3818.	3900.	0.	0.	0.	.98	53.	35.9	E	16.7	2.0
16	3	6120.	524.	728.	4316.	524.	732.	4342.	6100.	0.	0.	0.	.71	62.	23.3	C	18.2	4.4
17	2	1240.	0.	0.	3588.	0.	0.	3610.	4300.	0.	0.	0.	.84	60.	30.0	D	19.0	3.2
18	3	930.	520.	0.	4108.	520.	0.	4130.	6098.	2.	0.	0.	.68	62.	22.2	C	20.6	4.4
19	3	5330.	168.	572.	4276.	168.	575.	4298.	6062.	38.	0.	0.	.71	62.	23.1	C	20.6	4.4
20	2	2830.	0.	0.	3704.	0.	0.	3723.	3800.	0.	0.	0.	.98	53.	35.2	E	23.6	2.0
21	3	1660.	484.	656.	4188.	484.	659.	4207.	5855.	245.	0.	0.	.72	61.	23.0	C	21.1	3.8
22	2	2270.	0.	0.	3532.	0.	0.	3548.	4400.	0.	0.	0.	.81	61.	29.1	D	21.2	3.7
23	2	3040.	100.	388.	3632.	100.	390.	3648.	4100.	0.	0.	0.	.89	58.	31.3	D	22.1	2.8
24	2	2190.	0.	0.	3244.	0.	0.	3258.	4200.	0.	0.	0.	.78	64.	25.6	C	19.8	5.4
25	3	2400.	88.	3332.	3332.	88.	3346.	3346.	6150.	0.	0.	0.	.54	65.	17.2	B	18.6	6.6
TOTAL		60550. =	11.5 MILES						MAX(V/C) = 0.98		LOWEST LOS = E		AVG = 59.		26.1		19.1	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	187. VEH-HRS	221. PASS-HRS	564. VEH-HRS	666. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	187. VEH-HRS	221. PASS-HRS	564. VEH-HRS	666. PASS-HRS
TOTAL TRAV DISTANCE =	11016. VEH-MI.	12999. PASS-MI.	33227. VEH-MI.	39208. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	26. VPMPL		26. VPMPL	
TOTAL FUEL =	578. GALLONS		1744. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		124. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2852.	0.	2852.	2852.	0.	2852.	3850.	0.	0.	0.	.74	50.	28.5	D	17.4	2.3
2	2	2070.	468.	0.	3320.	468.	0.	3320.	3836.	14.	0.	0.	.87	50.	33.2	D	15.9	2.3
3	3	2300.	1640.	352.	4960.	1640.	352.	4960.	5848.	252.	0.	0.	.85	55.	30.1	D	14.0	2.4
4	3	1020.	0.	0.	4608.	0.	0.	4608.	6100.	0.	0.	0.	.76	62.	24.8	C	19.9	4.8
5	3	710.	140.	0.	4748.	140.	0.	4748.	6100.	0.	0.	0.	.78	61.	25.8	C	16.4	4.0
6	3	3820.	272.	1112.	5020.	272.	1112.	5020.	6118.	32.	0.	0.	.82	61.	27.6	D	17.7	4.0
7	2	1220.	0.	0.	3908.	0.	0.	3908.	4400.	0.	0.	0.	.89	58.	33.5	D	19.5	2.8
8	3	4810.	548.	808.	4456.	548.	808.	4456.	6100.	0.	0.	0.	.73	62.	24.0	C	20.6	4.4
9	2	1370.	0.	0.	3648.	0.	0.	3648.	4000.	0.	0.	0.	.91	57.	31.9	D	26.0	2.5
10	2	660.	280.	0.	3928.	280.	0.	3928.	4376.	24.	0.	0.	.90	58.	33.9	D	25.7	2.7
11	3	790.	1000.	924.	4928.	1000.	924.	4928.	5336.	764.	0.	0.	.92	57.	29.0	D	34.1	2.4
12	2	1460.	0.	0.	4004.	0.	0.	4004.	4100.	0.	0.	0.	.98	53.	37.5	E	23.5	2.0
13	3	1400.	596.	0.	4600.	596.	0.	4600.	6020.	80.	0.	0.	.76	62.	24.7	C	13.6	4.4
14	3	2600.	0.	632.	4600.	0.	632.	4532.	6020.	80.	* 454.	68.	.75	50.	30.1	F	20.2	4.4
15	2	2010.	0.	0.	3968.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	608.	660.	4576.	608.	650.	4508.	6100.	0.	0.	0.	.74	62.	24.2	C	18.2	4.4
17	2	1240.	0.	0.	3916.	0.	0.	3858.	4300.	0.	0.	0.	.90	58.	33.3	D	19.6	2.7
18	3	930.	456.	0.	4372.	456.	0.	4314.	6098.	2.	0.	0.	.71	62.	23.2	C	20.6	4.4
19	3	5330.	136.	560.	4508.	136.	553.	4353.	6064.	36.	* 583.	97.	.72	53.	27.4	F	20.3	4.4
20	2	2830.	0.	0.	3948.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	524.	712.	4472.	524.	688.	4324.	5792.	308.	0.	0.	.75	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	3760.	0.	0.	3636.	4400.	0.	0.	0.	.83	60.	30.1	D	21.4	3.4
23	2	3040.	340.	396.	4100.	340.	384.	3976.	4100.	0.	0.	0.	.97	54.	36.9	E	23.4	2.0
24	2	2190.	0.	0.	3704.	0.	0.	3592.	4200.	0.	0.	0.	.86	61.	29.3	D	20.9	3.9
25	3	2400.	120.	3824.	3824.	120.	3712.	3712.	6150.	0.	0.	0.	.60	65.	19.0	C	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 57. 28.8 19.2 3.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	207. VEH-HRS	244. PASS-HRS	771. VEH-HRS	910. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	207. VEH-HRS	244. PASS-HRS	771. VEH-HRS	910. PASS-HRS
TOTAL TRAV DISTANCE =	11760. VEH-MI.	13877. PASS-MI.	44987. VEH-MI.	53085. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		58. MPH.	
AVERAGE DENSITY =	29. VPMPL		27. VPMPL	
TOTAL FUEL =	613. GALLONS		2357. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		166. KILOGRAMS	

QUEUE CLEAR SECTION 14 T2 =0.233

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2352.	0.	2352.	2352.	0.	2352.	3850.	0.	0.	0.	.61	50.	23.5	C	17.4	2.3
2	2	2070.	452.	0.	2804.	452.	0.	2804.	3833.	17.	0.	0.	.73	50.	28.0	D	15.9	2.3
3	3	2300.	1468.	500.	4272.	1468.	500.	4272.	5753.	347.	0.	0.	.74	55.	25.9	C	14.0	2.4
4	3	1020.	0.	0.	3772.	0.	0.	3772.	6100.	0.	0.	0.	.62	62.	20.3	C	19.9	4.8
5	3	710.	80.	0.	3852.	80.	0.	3852.	6100.	0.	0.	0.	.63	62.	20.7	C	16.1	4.4
6	3	3820.	280.	1108.	4132.	280.	1108.	4132.	6130.	20.	0.	0.	.67	62.	22.2	C	17.1	4.8
7	2	1220.	0.	0.	3024.	0.	0.	3024.	4400.	0.	0.	0.	.69	62.	24.4	C	18.2	4.4
8	3	4810.	508.	756.	3532.	508.	756.	3532.	6100.	0.	0.	0.	.58	62.	19.0	C	20.6	4.4
9	2	1370.	0.	0.	2776.	0.	0.	2776.	4000.	0.	0.	0.	.69	62.	22.4	C	23.6	4.4
10	2	660.	348.	0.	3124.	348.	0.	3124.	4371.	29.	0.	0.	.71	62.	25.2	C	23.6	4.3
11	3	790.	1088.	772.	4212.	1088.	772.	4212.	5493.	607.	0.	0.	.77	62.	22.6	C	30.0	4.4
12	2	1460.	0.	0.	3440.	0.	0.	3440.	4100.	0.	0.	0.	.84	60.	28.6	D	21.6	3.2
13	3	1400.	564.	0.	4004.	564.	0.	4004.	6044.	56.	0.	0.	.66	62.	21.5	C	13.6	4.4
14	3	2600.	0.	400.	4004.	0.	400.	4095.	6044.	56.	0.	-91.	.68	47.	28.8	D	20.0	4.5
15	2	2010.	0.	0.	3604.	0.	0.	3695.	3900.	0.	0.	0.	.95	55.	33.4	D	16.3	2.1
16	3	6120.	580.	520.	4184.	580.	531.	4275.	6100.	0.	0.	0.	.70	62.	23.0	C	18.2	4.4
17	2	1240.	0.	0.	3664.	0.	0.	3743.	4300.	0.	0.	0.	.87	59.	31.7	D	19.3	3.0
18	3	930.	368.	0.	4032.	368.	0.	4111.	6099.	1.	0.	0.	.67	62.	22.1	C	20.6	4.4
19	3	5330.	108.	496.	4140.	108.	506.	4306.	6074.	26. *	84.	-86.	.71	51.	28.0	F	20.2	4.4
20	2	2830.	0.	0.	3644.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	508.	672.	4152.	508.	697.	4308.	5824.	276.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3480.	0.	0.	3611.	4400.	0.	0.	0.	.82	61.	29.8	D	21.3	3.5
23	2	3040.	276.	392.	3756.	276.	406.	3887.	4100.	0.	0.	0.	.95	55.	35.2	E	23.1	2.0
24	2	2190.	0.	0.	3364.	0.	0.	3481.	4200.	0.	0.	0.	.83	62.	28.0	D	20.4	4.5
25	3	2400.	148.	3512.	3512.	148.	3629.	3629.	6150.	0.	0.	0.	.59	65.	18.6	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 57.	25.8		19.0	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	184. VEH-HRS	218. PASS-HRS	956. VEH-HRS	1128. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	184. VEH-HRS	218. PASS-HRS	956. VEH-HRS	1128. PASS-HRS
TOTAL TRAV DISTANCE =	10538. VEH-MI.	12435. PASS-MI.	55525. VEH-MI.	65519. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		58. MPH.	
AVERAGE DENSITY =	26. VPMPL		27. VPMPL	
TOTAL FUEL =	555. GALLONS		2912. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		206. KILOGRAMS	

QUEUE CLEAR SECTION 19 T2 =0.219

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2432.	0.	2432.	2432.	0.	2432.	3850.	0.	0.	0.	.63	50.	24.3	C	17.4	2.3
2	2	2070.	396.	0.	2828.	396.	0.	2828.	3836.	14.	0.	0.	.74	50.	28.3	D	15.9	2.3
3	3	2300.	1412.	432.	4240.	1412.	432.	4240.	5795.	305.	0.	0.	.73	55.	25.7	C	14.0	2.4
4	3	1020.	0.	0.	3808.	0.	0.	3808.	6100.	0.	0.	0.	.62	62.	20.5	C	19.9	4.8
5	3	710.	80.	0.	3888.	80.	0.	3888.	6100.	0.	0.	0.	.64	62.	20.9	C	16.1	4.4
6	3	3820.	224.	1112.	4112.	224.	1112.	4112.	6134.	16.	0.	0.	.67	62.	22.1	C	17.1	4.8
7	2	1220.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	18.2	4.4
8	3	4810.	536.	712.	3536.	536.	712.	3536.	6100.	0.	0.	0.	.58	62.	19.0	C	20.6	4.4
9	2	1370.	0.	0.	2824.	0.	0.	2824.	4000.	0.	0.	0.	.71	62.	22.8	C	23.6	4.4
10	2	660.	328.	0.	3152.	328.	0.	3152.	4375.	25.	0.	0.	.72	62.	25.5	C	23.6	4.3
11	3	790.	1036.	728.	4188.	1036.	728.	4188.	5521.	579.	0.	0.	.76	62.	22.5	C	30.0	4.4
12	2	1460.	0.	0.	3460.	0.	0.	3460.	4100.	0.	0.	0.	.84	60.	28.9	D	21.6	3.2
13	3	1400.	584.	0.	4044.	584.	0.	4044.	6048.	52.	0.	0.	.67	62.	21.7	C	13.6	4.4
14	3	2600.	0.	356.	4044.	0.	356.	4044.	6048.	52.	0.	0.	.67	62.	21.7	C	20.6	4.4
15	2	2010.	0.	0.	3688.	0.	0.	3688.	3900.	0.	0.	0.	.95	55.	33.3	D	16.3	2.1
16	3	6120.	508.	472.	4196.	508.	472.	4196.	6100.	0.	0.	0.	.69	62.	22.6	C	18.2	4.4
17	2	1240.	0.	0.	3724.	0.	0.	3724.	4300.	0.	0.	0.	.87	59.	31.4	D	19.3	3.0
18	3	930.	372.	0.	4096.	372.	0.	4096.	6099.	1.	0.	0.	.67	62.	22.0	C	20.6	4.4
19	3	5330.	116.	456.	4212.	116.	456.	4229.	6074.	26.	0.	-17.	.70	61.	23.3	C	20.5	4.4
20	2	2830.	0.	0.	3756.	0.	0.	3773.	3800.	0.	0.	0.	.99	52.	36.4	E	23.9	2.0
21	3	1660.	520.	604.	4276.	520.	606.	4293.	5831.	269.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3672.	0.	0.	3687.	4400.	0.	0.	0.	.84	60.	30.7	D	21.6	3.3
23	2	3040.	148.	380.	3820.	148.	381.	3835.	4100.	0.	0.	0.	.94	56.	34.2	D	22.8	2.2
24	2	2190.	0.	0.	3440.	0.	0.	3453.	4200.	0.	0.	0.	.82	62.	27.6	D	20.3	4.6
25	3	2400.	136.	3576.	3576.	136.	3589.	3589.	6150.	0.	0.	0.	.58	65.	18.4	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.99		LOWEST LOS = E	AVG = 59.	25.0		19.0	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	179. VEH-HRS	211. PASS-HRS	1134. VEH-HRS	1339. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	179. VEH-HRS	211. PASS-HRS	1134. VEH-HRS	1339. PASS-HRS
TOTAL TRAV DISTANCE =	10531. VEH-MI.	12426. PASS-MI.	66056. VEH-MI.	77946. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		58. MPH.	
AVERAGE DENSITY =	25. VPMPL		26. VPMPL	
TOTAL FUEL =	554. GALLONS		3466. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		246. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2208.	0.	2208.	2208.	0.	2208.	3850.	0.	0.	0.	.57	50.	22.1	C	17.4	2.3
2	2	2070.	444.	0.	2652.	444.	0.	2652.	3835.	15.	0.	0.	.69	50.	26.5	D	15.9	2.3
3	3	2300.	1656.	500.	4308.	1656.	500.	4308.	5774.	326.	0.	0.	.75	55.	26.1	D	14.0	2.4
4	3	1020.	0.	0.	3808.	0.	0.	3808.	6100.	0.	0.	0.	.62	62.	20.5	C	19.9	4.8
5	3	710.	64.	0.	3872.	64.	0.	3872.	6100.	0.	0.	0.	.63	62.	20.8	C	16.1	4.4
6	3	3820.	228.	1168.	4100.	228.	1168.	4100.	6125.	25.	0.	0.	.67	62.	22.0	C	17.1	4.8
7	2	1220.	0.	0.	2932.	0.	0.	2932.	4400.	0.	0.	0.	.67	62.	23.6	C	18.2	4.4
8	3	4810.	556.	756.	3488.	556.	756.	3488.	6100.	0.	0.	0.	.57	62.	18.8	C	20.6	4.4
9	2	1370.	0.	0.	2732.	0.	0.	2732.	4000.	0.	0.	0.	.68	62.	22.0	C	23.6	4.4
10	2	660.	324.	0.	3056.	324.	0.	3056.	4373.	27.	0.	0.	.70	62.	24.6	C	23.6	4.4
11	3	790.	1076.	760.	4132.	1076.	760.	4132.	5503.	597.	0.	0.	.75	62.	22.2	C	30.0	4.4
12	2	1460.	0.	0.	3372.	0.	0.	3372.	4100.	0.	0.	0.	.82	61.	27.9	D	21.3	3.5
13	3	1400.	596.	0.	3968.	596.	0.	3968.	6048.	52.	0.	0.	.66	62.	21.3	C	13.6	4.4
14	3	2600.	0.	352.	3968.	0.	352.	3968.	6048.	52.	0.	0.	.66	62.	21.3	C	20.6	4.4
15	2	2010.	0.	0.	3616.	0.	0.	3616.	3900.	0.	0.	0.	.93	56.	32.0	D	16.1	2.3
16	3	6120.	488.	492.	4104.	488.	492.	4104.	6100.	0.	0.	0.	.67	62.	22.1	C	18.2	4.4
17	2	1240.	0.	0.	3612.	0.	0.	3612.	4300.	0.	0.	0.	.84	60.	30.1	D	19.0	3.2
18	3	930.	420.	0.	4032.	420.	0.	4032.	6099.	1.	0.	0.	.66	62.	21.7	C	20.6	4.4
19	3	5330.	128.	488.	4160.	128.	488.	4160.	6071.	29.	0.	0.	.69	62.	22.4	C	20.6	4.4
20	2	2830.	0.	0.	3672.	0.	0.	3672.	3800.	0.	0.	0.	.97	54.	34.2	D	23.4	2.0
21	3	1660.	500.	636.	4172.	500.	636.	4172.	5846.	254.	0.	0.	.71	61.	22.8	C	21.1	3.8
22	2	2270.	0.	0.	3536.	0.	0.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	21.1	3.7
23	2	3040.	124.	364.	3660.	124.	364.	3660.	4100.	0.	0.	0.	.89	58.	31.5	D	22.2	2.7
24	2	2190.	0.	0.	3296.	0.	0.	3296.	4200.	0.	0.	0.	.78	64.	26.0	C	19.8	5.2
25	3	2400.	112.	3408.	3408.	112.	3408.	3408.	6150.	0.	0.	0.	.55	65.	17.5	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.97		LOWEST LOS = D	AVG = 60.	24.0		18.9	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	172. VEH-HRS	203. PASS-HRS	1306. VEH-HRS	1542. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	172. VEH-HRS	203. PASS-HRS	1306. VEH-HRS	1542. PASS-HRS
TOTAL TRAV DISTANCE =	10248. VEH-MI.	12092. PASS-MI.	76303. VEH-MI.	90038. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	24. VPMPL		26. VPMPL	
TOTAL FUEL =	541. GALLONS		4007. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		286. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3212.	0.	3212.	3212.	0.	3212.	3850.	0.	0.	0.	.83	50.	32.1	D	17.4	2.3
2	2	2070.	376.	0.	3588.	376.	0.	3588.	3829.	21.	0.	0.	.94	50.	35.9	E	15.9	2.3
3	3	2300.	1268.	552.	4856.	1268.	552.	4856.	5669.	431.	0.	0.	.86	55.	29.4	D	14.0	2.4
4	3	1020.	0.	0.	4304.	0.	0.	4304.	6100.	0.	0.	0.	.71	62.	23.1	C	19.9	4.8
5	3	710.	52.	0.	4356.	52.	0.	4356.	6100.	0.	0.	0.	.71	62.	23.4	C	16.1	4.4
6	3	3820.	184.	1244.	4540.	184.	1244.	4540.	6124.	26.	0.	0.	.74	62.	24.4	C	17.1	4.8
7	2	1220.	0.	0.	3296.	0.	0.	3296.	4400.	0.	0.	0.	.75	62.	26.7	D	18.3	4.2
8	3	4810.	480.	812.	3776.	480.	812.	3776.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	2964.	0.	0.	2964.	4000.	0.	0.	0.	.74	62.	23.9	C	23.6	4.4
10	2	660.	328.	0.	3292.	328.	0.	3292.	4373.	27.	0.	0.	.75	62.	26.7	D	23.8	4.2
11	3	790.	1140.	796.	4432.	1140.	796.	4432.	5475.	625.	0.	0.	.81	62.	23.8	C	30.0	4.4
12	2	1460.	0.	0.	3636.	0.	0.	3636.	4100.	0.	0.	0.	.89	58.	31.1	D	22.1	2.8
13	3	1400.	648.	0.	4284.	648.	0.	4284.	6036.	64.	0.	0.	.71	62.	23.0	C	13.6	4.4
14	3	2600.	0.	428.	4284.	0.	428.	4284.	6036.	64.	0.	0.	.71	62.	23.0	C	20.6	4.4
15	2	2010.	0.	0.	3856.	0.	0.	3856.	3900.	0.	0.	0.	.99	52.	36.8	E	16.8	2.0
16	3	6120.	552.	580.	4408.	552.	580.	4408.	6100.	0.	0.	0.	.72	62.	23.7	C	18.2	4.4
17	2	1240.	0.	0.	3828.	0.	0.	3828.	4300.	0.	0.	0.	.89	58.	32.9	D	19.5	2.8
18	3	930.	468.	0.	4296.	468.	0.	4296.	6098.	2.	0.	0.	.70	62.	23.1	C	20.6	4.4
19	3	5330.	172.	608.	4468.	172.	608.	4408.	6059.	41. *	370.	60.	.73	56.	26.2	F	20.4	4.4
20	2	2830.	0.	0.	3860.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	488.	680.	4348.	488.	671.	4288.	5832.	268.	0.	0.	.74	61.	23.4	C	21.1	3.8
22	2	2270.	0.	0.	3668.	0.	0.	3617.	4400.	0.	0.	0.	.82	61.	29.9	D	21.3	3.5
23	2	3040.	116.	396.	3784.	116.	391.	3733.	4100.	0.	0.	0.	.91	57.	32.6	D	22.4	2.5
24	2	2190.	0.	0.	3388.	0.	0.	3343.	4200.	0.	0.	0.	.80	63.	26.4	D	20.0	5.1
25	3	2400.	136.	3524.	3524.	136.	3479.	3479.	6150.	0.	0.	0.	.57	65.	17.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 58.	27.2		18.9	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	194. VEH-HRS	229. PASS-HRS	1500. VEH-HRS	1770. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	194. VEH-HRS	229. PASS-HRS	1500. VEH-HRS	1770. PASS-HRS
TOTAL TRAV DISTANCE =	11288. VEH-MI.	13319. PASS-MI.	87591. VEH-MI.	103358. PASS-MI.
AVERAGE SYSTEM SPEED =	58. MPH.		58. MPH.	
AVERAGE DENSITY =	27. VPMPL		26. VPMPL	
TOTAL FUEL =	597. GALLONS		4604. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		329. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2952.	0.	2952.	2952.	0.	2952.	3850.	0.	0.	0.	.77	50.	29.5	D	17.4	2.3
2	2	2070.	372.	0.	3324.	372.	0.	3324.	3831.	19.	0.	0.	.87	50.	33.2	D	15.9	2.3
3	3	2300.	1240.	536.	4564.	1240.	536.	4564.	5686.	414.	0.	0.	.80	55.	27.7	D	14.0	2.4
4	3	1020.	0.	0.	4028.	0.	0.	4028.	6100.	0.	0.	0.	.66	62.	21.7	C	19.9	4.8
5	3	710.	84.	0.	4112.	84.	0.	4112.	6100.	0.	0.	0.	.67	62.	22.1	C	16.1	4.4
6	3	3820.	172.	1188.	4284.	172.	1188.	4284.	6131.	19.	0.	0.	.70	62.	23.0	C	17.1	4.8
7	2	1220.	0.	0.	3096.	0.	0.	3096.	4400.	0.	0.	0.	.70	62.	25.0	C	18.2	4.3
8	3	4810.	448.	800.	3544.	448.	800.	3544.	6100.	0.	0.	0.	.58	62.	19.1	C	20.6	4.4
9	2	1370.	0.	0.	2744.	0.	0.	2744.	4000.	0.	0.	0.	.69	62.	22.1	C	23.6	4.4
10	2	660.	280.	0.	3024.	280.	0.	3024.	4378.	22.	0.	0.	.69	62.	24.4	C	23.6	4.4
11	3	790.	1076.	700.	4100.	1076.	700.	4100.	5558.	542.	0.	0.	.74	62.	22.0	C	30.0	4.4
12	2	1460.	0.	0.	3400.	0.	0.	3400.	4100.	0.	0.	0.	.83	60.	28.2	D	21.4	3.4
13	3	1400.	684.	0.	4084.	684.	0.	4084.	6028.	72.	0.	0.	.68	62.	22.0	C	13.6	4.4
14	3	2600.	0.	420.	4084.	0.	420.	4084.	6028.	72.	0.	0.	.68	62.	22.0	C	20.6	4.4
15	2	2010.	0.	0.	3664.	0.	0.	3664.	3900.	0.	0.	0.	.94	56.	32.9	D	16.2	2.2
16	3	6120.	692.	580.	4356.	692.	580.	4356.	6100.	0.	0.	0.	.71	62.	23.4	C	18.2	4.4
17	2	1240.	0.	0.	3776.	0.	0.	3776.	4300.	0.	0.	0.	.88	59.	32.1	D	19.4	2.9
18	3	930.	496.	0.	4272.	496.	0.	4272.	6098.	2.	0.	0.	.70	62.	23.0	C	20.6	4.4
19	3	5330.	212.	624.	4484.	212.	624.	4424.	6059.	41. *	742.	60.	.73	47.	31.1	F	20.1	4.4
20	2	2830.	0.	0.	3860.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	460.	668.	4320.	460.	659.	4260.	5867.	233.	0.	0.	.73	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	3652.	0.	0.	3601.	4400.	0.	0.	0.	.82	61.	29.7	D	21.3	3.5
23	2	3040.	140.	368.	3792.	140.	363.	3741.	4100.	0.	0.	0.	.91	57.	32.7	D	22.4	2.5
24	2	2190.	0.	0.	3424.	0.	0.	3378.	4200.	0.	0.	0.	.80	63.	26.8	D	20.1	4.9
25	3	2400.	136.	3560.	3560.	136.	3514.	3514.	6150.	0.	0.	0.	.57	65.	18.0	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 57.		26.6	18.9	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	190. VEH-HRS	225. PASS-HRS	1691. VEH-HRS	1995. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	190. VEH-HRS	225. PASS-HRS	1691. VEH-HRS	1995. PASS-HRS
TOTAL TRAV DISTANCE =	10901. VEH-MI.	12864. PASS-MI.	98493. VEH-MI.	116221. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		58. MPH.	
AVERAGE DENSITY =	27. VPMPL		26. VPMPL	
TOTAL FUEL =	578. GALLONS		5182. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		370. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3208.	0.	3208.	3208.	0.	3208.	3850.	0.	0.	0.	.83	50.	32.1	D	17.4	2.3
2	2	2070.	320.	0.	3528.	320.	0.	3528.	3833.	17.	0.	0.	.92	50.	35.3	E	15.9	2.3
3	3	2300.	1236.	556.	4764.	1236.	556.	4764.	5669.	431.	0.	0.	.84	55.	28.9	D	14.0	2.4
4	3	1020.	0.	0.	4208.	0.	0.	4208.	6100.	0.	0.	0.	.69	62.	22.6	C	19.9	4.8
5	3	710.	68.	0.	4276.	68.	0.	4276.	6100.	0.	0.	0.	.70	62.	23.0	C	16.1	4.4
6	3	3820.	164.	1196.	4440.	164.	1196.	4440.	6132.	18.	0.	0.	.72	62.	23.9	C	17.1	4.8
7	2	1220.	0.	0.	3244.	0.	0.	3244.	4400.	0.	0.	0.	.74	62.	26.2	D	18.2	4.2
8	3	4810.	356.	800.	3600.	356.	800.	3600.	6100.	0.	0.	0.	.59	62.	19.4	C	20.6	4.4
9	2	1370.	0.	0.	2800.	0.	0.	2800.	4000.	0.	0.	0.	.70	62.	22.6	C	23.6	4.4
10	2	660.	276.	0.	3076.	276.	0.	3076.	4378.	22.	0.	0.	.70	62.	24.8	C	23.6	4.4
11	3	790.	1060.	704.	4136.	1060.	704.	4136.	5550.	550.	0.	0.	.75	62.	22.2	C	30.0	4.4
12	2	1460.	0.	0.	3432.	0.	0.	3432.	4100.	0.	0.	0.	.84	60.	28.5	D	21.6	3.3
13	3	1400.	644.	0.	4076.	644.	0.	4076.	6032.	68.	0.	0.	.68	62.	21.9	C	13.6	4.4
14	3	2600.	0.	420.	4076.	0.	420.	4076.	6032.	68.	0.	0.	.68	62.	21.9	C	20.6	4.4
15	2	2010.	0.	0.	3656.	0.	0.	3656.	3900.	0.	0.	0.	.94	56.	32.7	D	16.2	2.2
16	3	6120.	756.	540.	4412.	756.	540.	4412.	6100.	0.	0.	0.	.72	62.	23.7	C	18.2	4.4
17	2	1240.	0.	0.	3872.	0.	0.	3872.	4300.	0.	0.	0.	.90	58.	33.5	D	19.6	2.7
18	3	930.	508.	0.	4380.	508.	0.	4380.	6097.	3.	0.	0.	.72	62.	23.5	C	20.6	4.4
19	3	5330.	216.	628.	4596.	216.	628.	4428.	6057.	43. *	1796.	168.	.73	37.	40.2	F	19.5	4.5
20	2	2830.	0.	0.	3968.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	440.	688.	4408.	440.	662.	4240.	5877.	223.	0.	0.	.72	61.	23.2	C	21.1	3.8
22	2	2270.	0.	0.	3720.	0.	0.	3578.	4400.	0.	0.	0.	.81	61.	29.5	D	21.2	3.6
23	2	3040.	160.	372.	3880.	160.	358.	3738.	4100.	0.	0.	0.	.91	57.	32.6	D	22.4	2.5
24	2	2190.	0.	0.	3508.	0.	0.	3380.	4200.	0.	0.	0.	.80	63.	26.8	D	20.1	4.9
25	3	2400.	124.	3632.	3632.	124.	3504.	3504.	6150.	0.	0.	0.	.57	65.	18.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 55.	27.9		18.8	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	1892. VEH-HRS	2233. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	1892. VEH-HRS	2233. PASS-HRS
TOTAL TRAV DISTANCE =	11131. VEH-MI.	13134. PASS-MI.	109623. VEH-MI.	129355. PASS-MI.
AVERAGE SYSTEM SPEED =	55. MPH.		58. MPH.	
AVERAGE DENSITY =	28. VPMPL		26. VPMPL	
TOTAL FUEL =	592. GALLONS		5774. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		413. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2812.	0.	2812.	2812.	0.	2812.	3850.	0.	0.	0.	.73	50.	28.1	D	17.4	2.3
2	2	2070.	396.	0.	3208.	396.	0.	3208.	3830.	20.	0.	0.	.84	50.	32.1	D	15.9	2.3
3	3	2300.	1236.	536.	4444.	1236.	536.	4444.	5709.	391.	0.	0.	.78	55.	26.9	D	14.0	2.4
4	3	1020.	0.	0.	3908.	0.	0.	3908.	6100.	0.	0.	0.	.64	62.	21.0	C	19.9	4.8
5	3	710.	76.	0.	3984.	76.	0.	3984.	6100.	0.	0.	0.	.65	62.	21.4	C	16.1	4.4
6	3	3820.	172.	1148.	4156.	172.	1148.	4156.	6138.	12.	0.	0.	.68	62.	22.3	C	17.1	4.8
7	2	1220.	0.	0.	3008.	0.	0.	3008.	4400.	0.	0.	0.	.68	62.	24.3	C	18.2	4.4
8	3	4810.	392.	756.	3400.	392.	756.	3400.	6100.	0.	0.	0.	.56	62.	18.3	C	20.6	4.4
9	2	1370.	0.	0.	2644.	0.	0.	2644.	4000.	0.	0.	0.	.66	62.	21.3	C	23.6	4.4
10	2	660.	256.	0.	2900.	256.	0.	2900.	4380.	20.	0.	0.	.66	62.	23.4	C	23.6	4.4
11	3	790.	1068.	684.	3968.	1068.	684.	3968.	5576.	524.	0.	0.	.71	62.	21.3	C	30.0	4.4
12	2	1460.	0.	0.	3284.	0.	0.	3284.	4100.	0.	0.	0.	.80	61.	26.9	D	21.1	3.8
13	3	1400.	652.	0.	3936.	652.	0.	3936.	6036.	64.	0.	0.	.65	62.	21.2	C	13.6	4.4
14	3	2600.	0.	392.	3936.	0.	392.	3936.	6036.	64.	0.	0.	.65	62.	21.2	C	20.6	4.4
15	2	2010.	0.	0.	3544.	0.	0.	3544.	3900.	0.	0.	0.	.91	57.	30.9	D	15.9	2.6
16	3	6120.	720.	480.	4264.	720.	480.	4264.	6100.	0.	0.	0.	.70	62.	22.9	C	18.2	4.4
17	2	1240.	0.	0.	3784.	0.	0.	3784.	4300.	0.	0.	0.	.88	59.	32.2	D	19.4	2.9
18	3	930.	564.	0.	4348.	564.	0.	4348.	6097.	3.	0.	0.	.71	62.	23.4	C	20.6	4.4
19	3	5330.	204.	568.	4552.	204.	568.	4368.	6054.	46. *	2922.	184.	.72	26.	55.0	F	18.5	4.7
20	2	2830.	0.	0.	3984.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	480.	668.	4464.	480.	640.	4280.	5855.	245.	0.	0.	.73	61.	23.4	C	21.1	3.8
22	2	2270.	0.	0.	3796.	0.	0.	3640.	4400.	0.	0.	0.	.83	60.	30.1	D	21.4	3.4
23	2	3040.	136.	368.	3932.	136.	353.	3776.	4100.	0.	0.	0.	.92	57.	33.2	D	22.6	2.4
24	2	2190.	0.	0.	3564.	0.	0.	3422.	4200.	0.	0.	0.	.81	63.	27.3	D	20.2	4.8
25	3	2400.	80.	3644.	3644.	80.	3502.	3502.	6150.	0.	0.	0.	.57	65.	18.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 52.	28.1		18.7	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	205. VEH-HRS	242. PASS-HRS	2098. VEH-HRS	2475. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	205. VEH-HRS	242. PASS-HRS	2098. VEH-HRS	2475. PASS-HRS
TOTAL TRAV DISTANCE =	10690. VEH-MI.	12615. PASS-MI.	120314. VEH-MI.	141970. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		57. MPH.	
AVERAGE DENSITY =	28. VPMPL		27. VPMPL	
TOTAL FUEL =	571. GALLONS		6345. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		454. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3068.	0.	3068.	3068.	0.	3068.	3850.	0.	0.	0.	.80	50.	30.7	D	17.4	2.3
2	2	2070.	324.	0.	3392.	324.	0.	3392.	3832.	18.	0.	0.	.89	50.	33.9	D	15.9	2.3
3	3	2300.	1068.	552.	4460.	1068.	552.	4460.	5702.	398.	0.	0.	.78	55.	27.0	D	14.0	2.4
4	3	1020.	0.	0.	3908.	0.	0.	3908.	6100.	0.	0.	0.	.64	62.	21.0	C	19.9	4.8
5	3	710.	76.	0.	3984.	76.	0.	3984.	6100.	0.	0.	0.	.65	62.	21.4	C	16.1	4.4
6	3	3820.	176.	1208.	4160.	176.	1208.	4160.	6131.	19.	0.	0.	.68	62.	22.4	C	17.1	4.8
7	2	1220.	0.	0.	2952.	0.	0.	2952.	4400.	0.	0.	0.	.67	62.	23.8	C	18.2	4.4
8	3	4810.	476.	780.	3428.	476.	780.	3428.	6100.	0.	0.	0.	.56	62.	18.4	C	20.6	4.4
9	2	1370.	0.	0.	2648.	0.	0.	2648.	4000.	0.	0.	0.	.66	62.	21.4	C	23.6	4.4
10	2	660.	216.	0.	2864.	216.	0.	2864.	4382.	18.	0.	0.	.65	62.	23.1	C	23.6	4.4
11	3	790.	1076.	736.	3940.	1076.	736.	3940.	5542.	558.	0.	0.	.71	62.	21.2	C	30.0	4.4
12	2	1460.	0.	0.	3204.	0.	0.	3204.	4100.	0.	0.	0.	.78	61.	26.1	D	20.9	4.0
13	3	1400.	660.	0.	3864.	660.	0.	3864.	6020.	80.	0.	0.	.64	62.	20.8	C	13.6	4.4
14	3	2600.	0.	464.	3864.	0.	464.	3864.	6020.	80.	0.	0.	.64	62.	20.8	C	20.6	4.4
15	2	2010.	0.	0.	3400.	0.	0.	3400.	3900.	0.	0.	0.	.87	59.	28.8	D	15.5	2.9
16	3	6120.	696.	544.	4096.	696.	544.	4096.	6100.	0.	0.	0.	.67	62.	22.0	C	18.2	4.4
17	2	1240.	0.	0.	3552.	0.	0.	3552.	4300.	0.	0.	0.	.83	60.	29.4	D	18.9	3.4
18	3	930.	580.	0.	4132.	580.	0.	4132.	6098.	2.	0.	0.	.68	62.	22.2	C	20.6	4.4
19	3	5330.	200.	604.	4332.	200.	604.	4404.	6056.	44. *	2483.	-72.	.73	24.	60.4	F	18.2	4.8
20	2	2830.	0.	0.	3728.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	516.	756.	4244.	516.	769.	4316.	5782.	318.	0.	0.	.75	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	3488.	0.	0.	3547.	4400.	0.	0.	0.	.81	61.	29.1	D	21.1	3.7
23	2	3040.	172.	348.	3660.	172.	354.	3719.	4100.	0.	0.	0.	.91	57.	32.3	D	22.4	2.6
24	2	2190.	0.	0.	3312.	0.	0.	3366.	4200.	0.	0.	0.	.80	63.	26.7	D	20.0	5.0
25	3	2400.	128.	3440.	3440.	128.	3494.	3494.	6150.	0.	0.	0.	.57	65.	17.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 51.	28.6		18.6	3.9

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 12 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	208. VEH-HRS	245. PASS-HRS	2305. VEH-HRS	2720. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	208. VEH-HRS	245. PASS-HRS	2305. VEH-HRS	2720. PASS-HRS
TOTAL TRAV DISTANCE =	10636. VEH-MI.	12551. PASS-MI.	130950. VEH-MI.	154521. PASS-MI.
AVERAGE SYSTEM SPEED =	51. MPH.		57. MPH.	
AVERAGE DENSITY =	29. VPMPL		27. VPMPL	
TOTAL FUEL =	571. GALLONS		6916. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		496. KILOGRAMS	

QUEUE CLEAR SECTION 19 T2 =0.221

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2104.	0.	2104.	2104.	0.	2104.	3850.	0.	0.	0.	.55	50.	21.0	C	17.4	2.3
2	2	2070.	468.	0.	2572.	468.	0.	2572.	3835.	15.	0.	0.	.67	50.	25.7	C	15.9	2.3
3	3	2300.	1256.	464.	3828.	1256.	464.	3828.	5787.	313.	0.	0.	.66	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3364.	0.	0.	3364.	6100.	0.	0.	0.	.55	62.	18.1	C	19.9	4.8
5	3	710.	88.	0.	3452.	88.	0.	3452.	6100.	0.	0.	0.	.57	62.	18.6	C	16.1	4.4
6	3	3820.	184.	1200.	3636.	184.	1200.	3636.	6131.	19.	0.	0.	.59	62.	19.5	C	17.1	4.8
7	2	1220.	0.	0.	2436.	0.	0.	2436.	4400.	0.	0.	0.	.55	62.	19.6	C	18.2	4.4
8	3	4810.	404.	764.	2840.	404.	764.	2840.	6100.	0.	0.	0.	.47	62.	15.3	B	20.6	4.4
9	2	1370.	0.	0.	2076.	0.	0.	2076.	4000.	0.	0.	0.	.52	62.	16.7	B	23.6	4.4
10	2	660.	304.	0.	2380.	304.	0.	2380.	4371.	29.	0.	0.	.54	62.	19.2	C	23.6	4.4
11	3	790.	1092.	728.	3472.	1092.	728.	3472.	5565.	535.	0.	0.	.62	62.	18.7	C	30.0	4.4
12	2	1460.	0.	0.	2744.	0.	0.	2744.	4100.	0.	0.	0.	.67	62.	22.1	C	20.6	4.4
13	3	1400.	688.	0.	3432.	688.	0.	3432.	5996.	104.	0.	0.	.57	62.	18.5	C	13.6	4.4
14	3	2600.	0.	520.	3432.	0.	520.	3432.	5996.	104.	0.	0.	.57	62.	18.5	C	20.6	4.4
15	2	2010.	0.	0.	2912.	0.	0.	2912.	3900.	0.	0.	0.	.75	62.	23.5	C	14.7	4.4
16	3	6120.	708.	552.	3620.	708.	552.	3620.	6100.	0.	0.	0.	.59	62.	19.5	C	18.2	4.4
17	2	1240.	0.	0.	3068.	0.	0.	3068.	4300.	0.	0.	0.	.71	62.	24.7	C	18.2	4.4
18	3	930.	576.	0.	3644.	576.	0.	3644.	6100.	0.	0.	0.	.60	62.	19.6	C	20.6	4.4
19	3	5330.	224.	600.	3868.	224.	600.	4356.	6066.	34.	0.	-488.	.72	36.	40.1	E	19.4	4.6
20	2	2830.	0.	0.	3268.	0.	0.	3756.	3800.	0.	0.	0.	.99	52.	36.0	E	23.8	2.0
21	3	1660.	544.	748.	3812.	544.	843.	4300.	5795.	305.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3064.	0.	0.	3456.	4400.	0.	0.	0.	.79	61.	28.2	D	21.0	3.9
23	2	3040.	168.	364.	3232.	168.	408.	3624.	4100.	0.	0.	0.	.88	59.	31.0	D	22.1	2.8
24	2	2190.	0.	0.	2868.	0.	0.	3216.	4200.	0.	0.	0.	.77	64.	25.2	C	19.7	5.5
25	3	2400.	104.	2972.	2972.	104.	3320.	3320.	6150.	0.	0.	0.	.54	65.	17.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 0.99	LOWEST LOS = E	AVG = 56.	23.5		18.8	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	168. VEH-HRS	198. PASS-HRS	2473. VEH-HRS	2918. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	168. VEH-HRS	198. PASS-HRS	2473. VEH-HRS	2918. PASS-HRS
TOTAL TRAV DISTANCE =	9312. VEH-MI.	10988. PASS-MI.	140262. VEH-MI.	165509. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		57. MPH.	
AVERAGE DENSITY =	24. VPMPL		26. VPMPL	
TOTAL FUEL =	496. GALLONS		7412. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		533. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2584.	0.	2584.	2584.	0.	2584.	3850.	0.	0.	0.	.67	50.	25.8	C	17.4	2.3
2	2	2070.	320.	0.	2904.	320.	0.	2904.	3838.	12.	0.	0.	.76	50.	29.0	D	15.9	2.3
3	3	2300.	1172.	396.	4076.	1172.	396.	4076.	5830.	270.	0.	0.	.70	55.	24.7	C	14.0	2.4
4	3	1020.	0.	0.	3680.	0.	0.	3680.	6100.	0.	0.	0.	.60	62.	19.8	C	19.9	4.8
5	3	710.	84.	0.	3764.	84.	0.	3764.	6100.	0.	0.	0.	.62	62.	20.2	C	16.1	4.4
6	3	3820.	168.	1232.	3932.	168.	1232.	3932.	6127.	23.	0.	0.	.64	62.	21.1	C	17.1	4.8
7	2	1220.	0.	0.	2700.	0.	0.	2700.	4400.	0.	0.	0.	.61	62.	21.8	C	18.2	4.4
8	3	4810.	304.	796.	3004.	304.	796.	3004.	6100.	0.	0.	0.	.49	62.	16.2	B	20.6	4.4
9	2	1370.	0.	0.	2208.	0.	0.	2208.	4000.	0.	0.	0.	.55	62.	17.8	B	23.6	4.4
10	2	660.	376.	0.	2584.	376.	0.	2584.	4365.	35.	0.	0.	.59	62.	20.8	C	23.6	4.4
11	3	790.	1052.	728.	3636.	1052.	728.	3636.	5543.	557.	0.	0.	.66	62.	19.5	C	30.0	4.4
12	2	1460.	0.	0.	2908.	0.	0.	2908.	4100.	0.	0.	0.	.71	62.	23.5	C	20.6	4.4
13	3	1400.	660.	0.	3568.	660.	0.	3568.	6000.	100.	0.	0.	.59	62.	19.2	C	13.6	4.4
14	3	2600.	0.	540.	3568.	0.	540.	3568.	6000.	100.	0.	0.	.59	62.	19.2	C	20.6	4.4
15	2	2010.	0.	0.	3028.	0.	0.	3028.	3900.	0.	0.	0.	.78	62.	24.4	C	14.7	4.4
16	3	6120.	664.	560.	3692.	664.	560.	3692.	6100.	0.	0.	0.	.61	62.	19.8	C	18.2	4.4
17	2	1240.	0.	0.	3132.	0.	0.	3132.	4300.	0.	0.	0.	.73	62.	25.3	C	18.2	4.3
18	3	930.	556.	0.	3688.	556.	0.	3688.	6100.	0.	0.	0.	.60	62.	19.8	C	20.6	4.4
19	3	5330.	220.	620.	3908.	220.	620.	3908.	6066.	34.	0.	0.	.64	62.	21.0	C	20.6	4.4
20	2	2830.	0.	0.	3288.	0.	0.	3288.	3800.	0.	0.	0.	.87	59.	28.0	D	22.0	2.9
21	3	1660.	488.	748.	3776.	488.	748.	3776.	5826.	274.	0.	0.	.65	61.	20.6	C	21.1	3.8
22	2	2270.	0.	0.	3028.	0.	0.	3028.	4400.	0.	0.	0.	.69	62.	24.4	C	20.6	4.4
23	2	3040.	172.	380.	3200.	172.	380.	3200.	4100.	0.	0.	0.	.78	61.	26.1	D	20.9	4.0
24	2	2190.	0.	0.	2820.	0.	0.	2820.	4200.	0.	0.	0.	.67	65.	21.7	C	19.2	6.1
25	3	2400.	96.	2916.	2916.	96.	2916.	2916.	6150.	0.	0.	0.	.47	65.	15.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES						MAX(V/C) = 0.87		LOWEST LOS = D		AVG = 60.		21.9		18.6	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	157. VEH-HRS	185. PASS-HRS	2630. VEH-HRS	3104. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	157. VEH-HRS	185. PASS-HRS	2630. VEH-HRS	3104. PASS-HRS
TOTAL TRAV DISTANCE =	9429. VEH-MI.	11127. PASS-MI.	149691. VEH-MI.	176636. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	22. VPMPL		26. VPMPL	
TOTAL FUEL =	506. GALLONS		7918. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		572. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2356.	0.	2356.	2356.	0.	2356.	3850.	0.	0.	0.	.61	50.	23.6	C	17.4	2.3
2	2	2070.	300.	0.	2656.	300.	0.	2656.	3839.	11.	0.	0.	.69	50.	26.6	D	15.9	2.3
3	3	2300.	1164.	408.	3820.	1164.	408.	3820.	5832.	268.	0.	0.	.66	55.	23.2	C	14.0	2.4
4	3	1020.	0.	0.	3412.	0.	0.	3412.	6100.	0.	0.	0.	.56	62.	18.3	C	19.9	4.8
5	3	710.	84.	0.	3496.	84.	0.	3496.	6100.	0.	0.	0.	.57	62.	18.8	C	16.1	4.4
6	3	3820.	172.	1148.	3668.	172.	1148.	3668.	6138.	12.	0.	0.	.60	62.	19.7	C	17.1	4.8
7	2	1220.	0.	0.	2520.	0.	0.	2520.	4400.	0.	0.	0.	.57	62.	20.3	C	18.2	4.4
8	3	4810.	396.	768.	2916.	396.	768.	2916.	6100.	0.	0.	0.	.48	62.	15.7	B	20.6	4.4
9	2	1370.	0.	0.	2148.	0.	0.	2148.	4000.	0.	0.	0.	.54	62.	17.3	B	23.6	4.4
10	2	660.	412.	0.	2560.	412.	0.	2560.	4364.	36.	0.	0.	.59	62.	20.6	C	23.6	4.4
11	3	790.	992.	692.	3552.	992.	692.	3552.	5556.	544.	0.	0.	.64	62.	19.1	C	30.0	4.4
12	2	1460.	0.	0.	2860.	0.	0.	2860.	4100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
13	3	1400.	672.	0.	3532.	672.	0.	3532.	6000.	100.	0.	0.	.59	62.	19.0	C	13.6	4.4
14	3	2600.	0.	528.	3532.	0.	528.	3532.	6000.	100.	0.	0.	.59	62.	19.0	C	20.6	4.4
15	2	2010.	0.	0.	3004.	0.	0.	3004.	3900.	0.	0.	0.	.77	62.	24.2	C	14.7	4.4
16	3	6120.	684.	516.	3688.	684.	516.	3688.	6100.	0.	0.	0.	.60	62.	19.8	C	18.2	4.4
17	2	1240.	0.	0.	3172.	0.	0.	3172.	4300.	0.	0.	0.	.74	62.	25.7	C	18.2	4.2
18	3	930.	560.	0.	3732.	560.	0.	3732.	6100.	0.	0.	0.	.61	62.	20.1	C	20.6	4.4
19	3	5330.	188.	596.	3920.	188.	596.	3920.	6064.	36.	0.	0.	.65	62.	21.1	C	20.6	4.4
20	2	2830.	0.	0.	3324.	0.	0.	3324.	3800.	0.	0.	0.	.87	58.	28.5	D	22.1	2.8
21	3	1660.	424.	696.	3748.	424.	696.	3748.	5911.	189.	0.	0.	.63	61.	20.5	C	21.1	3.8
22	2	2270.	0.	0.	3052.	0.	0.	3052.	4400.	0.	0.	0.	.69	62.	24.6	C	20.6	4.4
23	2	3040.	208.	376.	3260.	208.	376.	3260.	4100.	0.	0.	0.	.80	61.	26.7	D	21.0	3.8
24	2	2190.	0.	0.	2884.	0.	0.	2884.	4200.	0.	0.	0.	.69	65.	22.2	C	19.2	6.1
25	3	2400.	116.	3000.	3000.	116.	3000.	3000.	6150.	0.	0.	0.	.49	65.	15.4	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 0.87 LOWEST LOS = D AVG = 60. 21.4 18.7 4.1

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 15 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	154. VEH-HRS	181. PASS-HRS	2784. VEH-HRS	3285. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	181. PASS-HRS	2784. VEH-HRS	3285. PASS-HRS
TOTAL TRAV DISTANCE =	9225. VEH-MI.	10886. PASS-MI.	158916. VEH-MI.	187521. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	21. VPMPL		26. VPMPL	
TOTAL FUEL =	494. GALLONS		8412. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		610. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3040.	0.	3040.	3040.	0.	3040.	3850.	0.	0.	0.	.79	50.	30.4	D	17.4	2.3
2	2	2070.	240.	0.	3280.	240.	0.	3280.	3841.	9.	0.	0.	.85	50.	32.8	D	15.9	2.3
3	3	2300.	1072.	388.	4352.	1072.	388.	4352.	5842.	258.	0.	0.	.74	55.	26.4	D	14.0	2.4
4	3	1020.	0.	0.	3964.	0.	0.	3964.	6100.	0.	0.	0.	.65	62.	21.3	C	19.9	4.8
5	3	710.	72.	0.	4036.	72.	0.	4036.	6100.	0.	0.	0.	.66	62.	21.7	C	16.1	4.4
6	3	3820.	144.	1204.	4180.	144.	1204.	4180.	6134.	16.	0.	0.	.68	62.	22.5	C	17.1	4.8
7	2	1220.	0.	0.	2976.	0.	0.	2976.	4400.	0.	0.	0.	.68	62.	24.0	C	18.2	4.4
8	3	4810.	280.	800.	3256.	280.	800.	3256.	6100.	0.	0.	0.	.53	62.	17.5	B	20.6	4.4
9	2	1370.	0.	0.	2456.	0.	0.	2456.	4000.	0.	0.	0.	.61	62.	19.8	C	23.6	4.4
10	2	660.	336.	0.	2792.	336.	0.	2792.	4369.	31.	0.	0.	.64	62.	22.5	C	23.6	4.4
11	3	790.	1012.	764.	3804.	1012.	764.	3804.	5503.	597.	0.	0.	.69	62.	20.5	C	30.0	4.4
12	2	1460.	0.	0.	3040.	0.	0.	3040.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
13	3	1400.	660.	0.	3700.	660.	0.	3700.	5992.	108.	0.	0.	.62	62.	19.9	C	13.6	4.4
14	3	2600.	0.	604.	3700.	0.	604.	3700.	5992.	108.	0.	0.	.62	62.	19.9	C	20.6	4.4
15	2	2010.	0.	0.	3096.	0.	0.	3096.	3900.	0.	0.	0.	.79	61.	25.3	C	15.0	3.8
16	3	6120.	600.	612.	3696.	600.	612.	3696.	6100.	0.	0.	0.	.61	62.	19.9	C	18.2	4.4
17	2	1240.	0.	0.	3084.	0.	0.	3084.	4300.	0.	0.	0.	.72	62.	24.9	C	18.2	4.3
18	3	930.	544.	0.	3628.	544.	0.	3628.	6100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
19	3	5330.	196.	648.	3824.	196.	648.	3824.	6065.	35.	0.	0.	.63	62.	20.6	C	20.6	4.4
20	2	2830.	0.	0.	3176.	0.	0.	3176.	3800.	0.	0.	0.	.84	60.	26.7	D	21.8	3.1
21	3	1660.	444.	764.	3620.	444.	764.	3620.	5871.	229.	0.	0.	.62	61.	19.8	C	21.1	3.8
22	2	2270.	0.	0.	2856.	0.	0.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	20.6	4.4
23	2	3040.	160.	400.	3016.	160.	400.	3016.	4100.	0.	0.	0.	.74	62.	24.3	C	20.6	4.4
24	2	2190.	0.	0.	2616.	0.	0.	2616.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	96.	2712.	2712.	96.	2712.	2712.	6150.	0.	0.	0.	.44	65.	13.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES										MAX(V/C) = 0.85	LOWEST LOS = D		AVG = 60.	22.7	18.6	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	162. VEH-HRS	191. PASS-HRS	2946. VEH-HRS	3476. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	162. VEH-HRS	191. PASS-HRS	2946. VEH-HRS	3476. PASS-HRS
TOTAL TRAV DISTANCE =	9701. VEH-MI.	11447. PASS-MI.	168617. VEH-MI.	198968. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	23. VPMPL		26. VPMPL	
TOTAL FUEL =	523. GALLONS		8935. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		649. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2540.	0.	2540.	2540.	0.	2540.	3850.	0.	0.	0.	.66	50.	25.4	C	17.4	2.3
2	2	2070.	276.	0.	2816.	276.	0.	2816.	3841.	9.	0.	0.	.73	50.	28.2	D	15.9	2.3
3	3	2300.	1300.	332.	4116.	1300.	332.	4116.	5873.	227.	0.	0.	.70	55.	24.9	C	14.0	2.4
4	3	1020.	0.	0.	3784.	0.	0.	3784.	6100.	0.	0.	0.	.62	62.	20.3	C	19.9	4.8
5	3	710.	108.	0.	3892.	108.	0.	3892.	6100.	0.	0.	0.	.64	62.	20.9	C	16.1	4.4
6	3	3820.	180.	1144.	4072.	180.	1144.	4072.	6137.	13.	0.	0.	.66	62.	21.9	C	17.1	4.8
7	2	1220.	0.	0.	2928.	0.	0.	2928.	4400.	0.	0.	0.	.67	62.	23.6	C	18.2	4.4
8	3	4810.	332.	708.	3260.	332.	708.	3260.	6100.	0.	0.	0.	.53	62.	17.5	B	20.6	4.4
9	2	1370.	0.	0.	2552.	0.	0.	2552.	4000.	0.	0.	0.	.64	62.	20.6	C	23.6	4.4
10	2	660.	220.	0.	2772.	220.	0.	2772.	4380.	20.	0.	0.	.63	62.	22.4	C	23.6	4.4
11	3	790.	1032.	772.	3804.	1032.	772.	3804.	5516.	584.	0.	0.	.69	62.	20.5	C	30.0	4.4
12	2	1460.	0.	0.	3032.	0.	0.	3032.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
13	3	1400.	632.	0.	3664.	632.	0.	3664.	5988.	112.	0.	0.	.61	62.	19.7	C	13.6	4.4
14	3	2600.	0.	648.	3664.	0.	648.	3664.	5988.	112.	0.	0.	.61	62.	19.7	C	20.6	4.4
15	2	2010.	0.	0.	3016.	0.	0.	3016.	3900.	0.	0.	0.	.77	62.	24.3	C	14.7	4.4
16	3	6120.	572.	660.	3588.	572.	660.	3588.	6100.	0.	0.	0.	.59	62.	19.3	C	18.2	4.4
17	2	1240.	0.	0.	2928.	0.	0.	2928.	4300.	0.	0.	0.	.68	62.	23.6	C	18.2	4.4
18	3	930.	480.	0.	3408.	480.	0.	3408.	6100.	0.	0.	0.	.56	62.	18.3	C	20.6	4.4
19	3	5330.	176.	600.	3584.	176.	600.	3584.	6076.	24.	0.	0.	.59	62.	19.3	C	20.6	4.4
20	2	2830.	0.	0.	2984.	0.	0.	2984.	3800.	0.	0.	0.	.79	61.	24.5	C	21.1	3.8
21	3	1660.	460.	740.	3444.	460.	740.	3444.	5884.	216.	0.	0.	.59	61.	18.8	C	21.1	3.8
22	2	2270.	0.	0.	2704.	0.	0.	2704.	4400.	0.	0.	0.	.61	62.	21.8	C	20.6	4.4
23	2	3040.	144.	376.	2848.	144.	376.	2848.	4100.	0.	0.	0.	.69	62.	23.0	C	20.6	4.4
24	2	2190.	0.	0.	2472.	0.	0.	2472.	4200.	0.	0.	0.	.59	65.	19.0	C	19.2	6.1
25	3	2400.	80.	2552.	2552.	80.	2552.	2552.	6150.	0.	0.	0.	.41	65.	13.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.79		LOWEST LOS = D	AVG = 60.	21.3		18.5	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	153. VEH-HRS	181. PASS-HRS	3099. VEH-HRS	3657. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	153. VEH-HRS	181. PASS-HRS	3099. VEH-HRS	3657. PASS-HRS
TOTAL TRAV DISTANCE =	9212. VEH-MI.	10870. PASS-MI.	177829. VEH-MI.	209838. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		57. MPH.	
AVERAGE DENSITY =	21. VPMPL		25. VPMPL	
TOTAL FUEL =	497. GALLONS		9432. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		687. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2348.	0.	2348.	2348.	0.	2348.	3850.	0.	0.	0.	.61	50.	23.5	C	17.4	2.3
2	2	2070.	344.	0.	2692.	344.	0.	2692.	3840.	10.	0.	0.	.70	50.	26.9	D	15.9	2.3
3	3	2300.	1376.	320.	4068.	1376.	320.	4068.	5888.	212.	0.	0.	.69	55.	24.7	C	14.0	2.4
4	3	1020.	0.	0.	3748.	0.	0.	3748.	6100.	0.	0.	0.	.61	62.	20.2	C	19.9	4.8
5	3	710.	156.	0.	3904.	156.	0.	3904.	6100.	0.	0.	0.	.64	62.	21.0	C	16.1	4.4
6	3	3820.	148.	1040.	4052.	148.	1040.	4052.	6150.	0.	0.	0.	.66	62.	21.8	C	17.1	4.8
7	2	1220.	0.	0.	3012.	0.	0.	3012.	4400.	0.	0.	0.	.68	62.	24.3	C	18.2	4.4
8	3	4810.	328.	656.	3340.	328.	656.	3340.	6100.	0.	0.	0.	.55	62.	18.0	B	20.6	4.4
9	2	1370.	0.	0.	2684.	0.	0.	2684.	4000.	0.	0.	0.	.67	62.	21.6	C	23.6	4.4
10	2	660.	228.	0.	2912.	228.	0.	2912.	4380.	20.	0.	0.	.66	62.	23.5	C	23.6	4.4
11	3	790.	960.	740.	3872.	960.	740.	3872.	5520.	580.	0.	0.	.70	62.	20.8	C	30.0	4.4
12	2	1460.	0.	0.	3132.	0.	0.	3132.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
13	3	1400.	528.	0.	3660.	528.	0.	3660.	6016.	84.	0.	0.	.61	62.	19.7	C	13.6	4.4
14	3	2600.	0.	576.	3660.	0.	576.	3660.	6016.	84.	0.	0.	.61	62.	19.7	C	20.6	4.4
15	2	2010.	0.	0.	3084.	0.	0.	3084.	3900.	0.	0.	0.	.79	61.	25.2	C	14.9	3.9
16	3	6120.	564.	632.	3648.	564.	632.	3648.	6100.	0.	0.	0.	.60	62.	19.6	C	18.2	4.4
17	2	1240.	0.	0.	3016.	0.	0.	3016.	4300.	0.	0.	0.	.70	62.	24.3	C	18.2	4.4
18	3	930.	444.	0.	3460.	444.	0.	3460.	6100.	0.	0.	0.	.57	62.	18.6	C	20.6	4.4
19	3	5330.	160.	580.	3620.	160.	580.	3620.	6075.	25.	0.	0.	.60	62.	19.5	C	20.6	4.4
20	2	2830.	0.	0.	3040.	0.	0.	3040.	3800.	0.	0.	0.	.80	61.	24.9	C	21.1	3.8
21	3	1660.	408.	672.	3448.	408.	672.	3448.	5936.	164.	0.	0.	.58	61.	18.8	C	21.1	3.8
22	2	2270.	0.	0.	2776.	0.	0.	2776.	4400.	0.	0.	0.	.63	62.	22.4	C	20.6	4.4
23	2	3040.	180.	388.	2956.	180.	388.	2956.	4100.	0.	0.	0.	.72	62.	23.8	C	20.6	4.4
24	2	2190.	0.	0.	2568.	0.	0.	2568.	4200.	0.	0.	0.	.61	65.	19.8	C	19.2	6.1
25	3	2400.	80.	2648.	2648.	80.	2648.	2648.	6150.	0.	0.	0.	.43	65.	13.6	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.80		LOWEST LOS = D	AVG = 60.	21.4		18.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	154. VEH-HRS	182. PASS-HRS	3253. VEH-HRS	3839. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	182. PASS-HRS	3253. VEH-HRS	3839. PASS-HRS
TOTAL TRAV DISTANCE =	9270. VEH-MI.	10938. PASS-MI.	187099. VEH-MI.	220777. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	21. VPMPL		25. VPMPL	
TOTAL FUEL =	498. GALLONS		9930. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		726. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2356.	0.	2356.	2356.	0.	2356.	3850.	0.	0.	0.	.61	50.	23.6	C	17.4	2.3
2	2	2070.	348.	0.	2704.	348.	0.	2704.	3839.	11.	0.	0.	.70	50.	27.0	D	15.9	2.3
3	3	2300.	1428.	372.	4132.	1428.	372.	4132.	5843.	257.	0.	0.	.71	55.	25.0	C	14.0	2.4
4	3	1020.	0.	0.	3760.	0.	0.	3760.	6100.	0.	0.	0.	.62	62.	20.2	C	19.9	4.8
5	3	710.	168.	0.	3928.	168.	0.	3928.	6100.	0.	0.	0.	.64	62.	21.1	C	16.1	4.4
6	3	3820.	252.	732.	4180.	252.	732.	4180.	6150.	0.	0.	0.	.68	62.	22.5	C	17.1	4.8
7	2	1220.	0.	0.	3448.	0.	0.	3448.	4400.	0.	0.	0.	.78	61.	28.1	D	18.5	3.9
8	3	4810.	332.	688.	3780.	332.	688.	3780.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	3092.	0.	0.	3092.	4000.	0.	0.	0.	.77	61.	25.2	C	23.9	4.0
10	2	660.	280.	0.	3372.	280.	0.	3372.	4376.	24.	0.	0.	.77	61.	27.4	D	23.9	4.0
11	3	790.	800.	784.	4172.	800.	784.	4172.	5440.	660.	0.	0.	.77	62.	22.4	C	30.0	4.4
12	2	1460.	0.	0.	3388.	0.	0.	3388.	4100.	0.	0.	0.	.83	60.	28.0	D	21.4	3.4
13	3	1400.	432.	0.	3820.	432.	0.	3820.	6040.	60.	0.	0.	.63	62.	20.5	C	13.6	4.4
14	3	2600.	0.	528.	3820.	0.	528.	3820.	6040.	60.	0.	0.	.63	62.	20.5	C	20.6	4.4
15	2	2010.	0.	0.	3292.	0.	0.	3292.	3900.	0.	0.	0.	.84	60.	27.5	D	15.3	3.2
16	3	6120.	436.	684.	3728.	436.	684.	3728.	6100.	0.	0.	0.	.61	62.	20.0	C	18.2	4.4
17	2	1240.	0.	0.	3044.	0.	0.	3044.	4300.	0.	0.	0.	.71	62.	24.5	C	18.2	4.4
18	3	930.	348.	0.	3392.	348.	0.	3392.	6100.	0.	0.	0.	.56	62.	18.2	C	20.6	4.4
19	3	5330.	140.	616.	3532.	140.	616.	3532.	6080.	20.	0.	0.	.58	62.	19.0	C	20.6	4.4
20	2	2830.	0.	0.	2916.	0.	0.	2916.	3800.	0.	0.	0.	.77	61.	23.9	C	21.1	3.8
21	3	1660.	332.	760.	3248.	332.	760.	3248.	5972.	128.	0.	0.	.54	61.	17.7	B	21.1	3.8
22	2	2270.	0.	0.	2488.	0.	0.	2488.	4400.	0.	0.	0.	.57	62.	20.1	C	20.6	4.4
23	2	3040.	152.	440.	2640.	152.	440.	2640.	4100.	0.	0.	0.	.64	62.	21.3	C	20.6	4.4
24	2	2190.	0.	0.	2200.	0.	0.	2200.	4200.	0.	0.	0.	.52	65.	16.9	B	19.2	6.1
25	3	2400.	76.	2276.	2276.	76.	2276.	2276.	6150.	0.	0.	0.	.37	65.	11.7	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 0.84 LOWEST LOS = D AVG = 60. 21.6 18.6 4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	156. VEH-HRS	184. PASS-HRS	3409. VEH-HRS	4023. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	156. VEH-HRS	184. PASS-HRS	3409. VEH-HRS	4023. PASS-HRS
TOTAL TRAV DISTANCE =	9360. VEH-MI.	11045. PASS-MI.	196459. VEH-MI.	231822. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	22. VPMPL		25. VPMPL	
TOTAL FUEL =	502. GALLONS		10432. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		764. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1740.	0.	1740.	1740.	0.	1740.	3850.	0.	0.	0.	.45	50.	17.4	B	17.4	2.3
2	2	2070.	332.	0.	2072.	332.	0.	2072.	3847.	3.	0.	0.	.54	50.	20.7	C	15.9	2.3
3	3	2300.	1536.	348.	3608.	1536.	348.	3608.	5896.	204.	0.	0.	.61	55.	21.9	C	14.0	2.4
4	3	1020.	0.	0.	3260.	0.	0.	3260.	6100.	0.	0.	0.	.53	62.	17.5	B	19.9	4.8
5	3	710.	244.	0.	3504.	244.	0.	3504.	6100.	0.	0.	0.	.57	62.	18.8	C	16.1	4.4
6	3	3820.	300.	804.	3804.	300.	804.	3804.	6150.	0.	0.	0.	.62	62.	20.5	C	17.1	4.8
7	2	1220.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	18.2	4.4
8	3	4810.	432.	632.	3432.	432.	632.	3432.	6100.	0.	0.	0.	.56	62.	18.5	C	20.6	4.4
9	2	1370.	0.	0.	2800.	0.	0.	2800.	4000.	0.	0.	0.	.70	62.	22.6	C	23.6	4.4
10	2	660.	252.	0.	3052.	252.	0.	3052.	4378.	22.	0.	0.	.70	62.	24.6	C	23.6	4.4
11	3	790.	752.	696.	3804.	752.	696.	3804.	5514.	586.	0.	0.	.69	62.	20.5	C	30.0	4.4
12	2	1460.	0.	0.	3108.	0.	0.	3108.	4100.	0.	0.	0.	.76	62.	25.2	C	20.8	4.1
13	3	1400.	412.	0.	3520.	412.	0.	3520.	6044.	56.	0.	0.	.58	62.	18.9	C	13.6	4.4
14	3	2600.	0.	476.	3520.	0.	476.	3520.	6044.	56.	0.	0.	.58	62.	18.9	C	20.6	4.4
15	2	2010.	0.	0.	3044.	0.	0.	3044.	3900.	0.	0.	0.	.78	62.	24.5	C	14.7	4.4
16	3	6120.	340.	608.	3384.	340.	608.	3384.	6100.	0.	0.	0.	.55	62.	18.2	C	18.2	4.4
17	2	1240.	0.	0.	2776.	0.	0.	2776.	4300.	0.	0.	0.	.65	62.	22.4	C	18.2	4.4
18	3	930.	392.	0.	3168.	392.	0.	3168.	6100.	0.	0.	0.	.52	62.	17.0	B	20.6	4.4
19	3	5330.	116.	508.	3284.	116.	508.	3284.	6085.	15.	0.	0.	.54	62.	17.7	B	20.6	4.4
20	2	2830.	0.	0.	2776.	0.	0.	2776.	3800.	0.	0.	0.	.73	61.	22.8	C	21.1	3.8
21	3	1660.	332.	636.	3108.	332.	636.	3108.	6021.	79.	0.	0.	.52	61.	17.0	B	21.1	3.8
22	2	2270.	0.	0.	2472.	0.	0.	2472.	4400.	0.	0.	0.	.56	62.	19.9	C	20.6	4.4
23	2	3040.	104.	364.	2576.	104.	364.	2576.	4100.	0.	0.	0.	.63	62.	20.8	C	20.6	4.4
24	2	2190.	0.	0.	2212.	0.	0.	2212.	4200.	0.	0.	0.	.53	65.	17.0	B	19.2	6.1
25	3	2400.	72.	2284.	2284.	72.	2284.	2284.	6150.	0.	0.	0.	.37	65.	11.7	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.78		LOWEST LOS = C	AVG = 60.	19.3		18.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	140. VEH-HRS	165. PASS-HRS	3549. VEH-HRS	4188. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	165. PASS-HRS	3549. VEH-HRS	4188. PASS-HRS
TOTAL TRAV DISTANCE =	8477. VEH-MI.	10003. PASS-MI.	204937. VEH-MI.	241825. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	19. VPMPL		25. VPMPL	
TOTAL FUEL =	455. GALLONS		10887. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		800. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1500.	0.	1500.	1500.	0.	1500.	3850.	0.	0.	0.	.39	50.	15.0	B	17.4	2.3
2	2	2070.	408.	0.	1908.	408.	0.	1908.	3850.	0.	0.	0.	.50	50.	19.1	C	15.9	2.3
3	3	2300.	1360.	348.	3268.	1360.	348.	3268.	5906.	194.	0.	0.	.55	55.	19.8	C	14.0	2.4
4	3	1020.	0.	0.	2920.	0.	0.	2920.	6100.	0.	0.	0.	.48	62.	15.7	B	19.9	4.8
5	3	710.	144.	0.	3064.	144.	0.	3064.	6100.	0.	0.	0.	.50	62.	16.5	B	16.1	4.4
6	3	3820.	296.	680.	3360.	296.	680.	3360.	6150.	0.	0.	0.	.55	62.	18.1	C	17.1	4.8
7	2	1220.	0.	0.	2680.	0.	0.	2680.	4400.	0.	0.	0.	.61	62.	21.6	C	18.2	4.4
8	3	4810.	400.	532.	3080.	400.	532.	3080.	6100.	0.	0.	0.	.50	62.	16.6	B	20.6	4.4
9	2	1370.	0.	0.	2548.	0.	0.	2548.	4000.	0.	0.	0.	.64	62.	20.5	C	23.6	4.4
10	2	660.	192.	0.	2740.	192.	0.	2740.	4382.	18.	0.	0.	.63	62.	22.1	C	23.6	4.4
11	3	790.	748.	708.	3488.	748.	708.	3488.	5522.	578.	0.	0.	.63	62.	18.8	C	30.0	4.4
12	2	1460.	0.	0.	2780.	0.	0.	2780.	4100.	0.	0.	0.	.68	62.	22.4	C	20.6	4.4
13	3	1400.	392.	0.	3172.	392.	0.	3172.	6032.	68.	0.	0.	.53	62.	17.1	B	13.6	4.4
14	3	2600.	0.	548.	3172.	0.	548.	3172.	6032.	68.	0.	0.	.53	62.	17.1	B	20.6	4.4
15	2	2010.	0.	0.	2624.	0.	0.	2624.	3900.	0.	0.	0.	.67	62.	21.2	C	14.7	4.4
16	3	6120.	328.	624.	2952.	328.	624.	2952.	6100.	0.	0.	0.	.48	62.	15.9	B	18.2	4.4
17	2	1240.	0.	0.	2328.	0.	0.	2328.	4300.	0.	0.	0.	.54	62.	18.8	C	18.2	4.4
18	3	930.	432.	0.	2760.	432.	0.	2760.	6100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
19	3	5330.	116.	480.	2876.	116.	480.	2876.	6100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
20	2	2830.	0.	0.	2396.	0.	0.	2396.	3800.	0.	0.	0.	.63	61.	19.6	C	21.1	3.8
21	3	1660.	380.	676.	2776.	380.	676.	2776.	5985.	115.	0.	0.	.46	61.	15.2	B	21.1	3.8
22	2	2270.	0.	0.	2100.	0.	0.	2100.	4400.	0.	0.	0.	.48	62.	16.9	B	20.6	4.4
23	2	3040.	72.	324.	2172.	72.	324.	2172.	4100.	0.	0.	0.	.53	62.	17.5	B	20.6	4.4
24	2	2190.	0.	0.	1848.	0.	0.	1848.	4200.	0.	0.	0.	.44	65.	14.2	B	19.2	6.1
25	3	2400.	68.	1916.	1916.	68.	1916.	1916.	6150.	0.	0.	0.	.31	65.	9.8	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.68		LOWEST LOS = C	AVG = 60.	17.0		18.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	123. VEH-HRS	145. PASS-HRS	3672. VEH-HRS	4333. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	123. VEH-HRS	145. PASS-HRS	3672. VEH-HRS	4333. PASS-HRS
TOTAL TRAV DISTANCE =	7449. VEH-MI.	8790. PASS-MI.	212385. VEH-MI.	250615. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	17. VPMPL		24. VPMPL	
TOTAL FUEL =	400. GALLONS		11287. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		831. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1320.	0.	1320.	1320.	0.	1320.	3850.	0.	0.	0.	.34	50.	13.2	B	17.4	2.3
2	2	2070.	452.	0.	1772.	452.	0.	1772.	3850.	0.	0.	0.	.46	50.	17.7	B	15.9	2.3
3	3	2300.	1312.	308.	3084.	1312.	308.	3084.	5942.	158.	0.	0.	.52	55.	18.7	C	14.0	2.4
4	3	1020.	0.	0.	2776.	0.	0.	2776.	6100.	0.	0.	0.	.46	62.	14.9	B	19.9	4.8
5	3	710.	96.	0.	2872.	96.	0.	2872.	6100.	0.	0.	0.	.47	62.	15.4	B	16.1	4.4
6	3	3820.	348.	616.	3220.	348.	616.	3220.	6150.	0.	0.	0.	.52	62.	17.3	B	17.1	4.8
7	2	1220.	0.	0.	2604.	0.	0.	2604.	4400.	0.	0.	0.	.59	62.	21.0	C	18.2	4.4
8	3	4810.	432.	624.	3036.	432.	624.	3036.	6100.	0.	0.	0.	.50	62.	16.3	B	20.6	4.4
9	2	1370.	0.	0.	2412.	0.	0.	2412.	4000.	0.	0.	0.	.60	62.	19.5	C	23.6	4.4
10	2	660.	196.	0.	2608.	196.	0.	2608.	4384.	16.	0.	0.	.59	62.	21.0	C	23.6	4.4
11	3	790.	648.	580.	3256.	648.	580.	3256.	5616.	484.	0.	0.	.58	62.	17.5	B	30.0	4.4
12	2	1460.	0.	0.	2676.	0.	0.	2676.	4100.	0.	0.	0.	.65	62.	21.6	C	20.6	4.4
13	3	1400.	316.	0.	2992.	316.	0.	2992.	6048.	52.	0.	0.	.49	62.	16.1	B	13.6	4.4
14	3	2600.	0.	500.	2992.	0.	500.	2992.	6048.	52.	0.	0.	.49	62.	16.1	B	20.6	4.4
15	2	2010.	0.	0.	2492.	0.	0.	2492.	3900.	0.	0.	0.	.64	62.	20.1	C	14.7	4.4
16	3	6120.	372.	616.	2864.	372.	616.	2864.	6100.	0.	0.	0.	.47	62.	15.4	B	18.2	4.4
17	2	1240.	0.	0.	2248.	0.	0.	2248.	4300.	0.	0.	0.	.52	62.	18.1	C	18.2	4.4
18	3	930.	288.	0.	2536.	288.	0.	2536.	6100.	0.	0.	0.	.42	62.	13.6	B	20.6	4.4
19	3	5330.	88.	504.	2624.	88.	504.	2624.	6100.	0.	0.	0.	.43	62.	14.1	B	20.6	4.4
20	2	2830.	0.	0.	2120.	0.	0.	2120.	3800.	0.	0.	0.	.56	61.	17.4	B	21.1	3.8
21	3	1660.	360.	600.	2480.	360.	600.	2480.	6046.	54.	0.	0.	.41	61.	13.6	B	21.1	3.8
22	2	2270.	0.	0.	1880.	0.	0.	1880.	4400.	0.	0.	0.	.43	62.	15.2	B	20.6	4.4
23	2	3040.	92.	348.	1972.	92.	348.	1972.	4100.	0.	0.	0.	.48	62.	15.9	B	20.6	4.4
24	2	2190.	0.	0.	1624.	0.	0.	1624.	4200.	0.	0.	0.	.39	65.	12.5	B	19.2	6.1
25	3	2400.	40.	1664.	1664.	40.	1664.	1664.	6150.	0.	0.	0.	.27	65.	8.5	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.65		LOWEST LOS = C	AVG = 61.	15.8		18.6	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	115. VEH-HRS	136. PASS-HRS	3787. VEH-HRS	4469. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	115. VEH-HRS	136. PASS-HRS	3787. VEH-HRS	4469. PASS-HRS
TOTAL TRAV DISTANCE =	6965. VEH-MI.	8219. PASS-MI.	219350. VEH-MI.	258833. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		58. MPH.	
AVERAGE DENSITY =	16. VPMPL		24. VPMPL	
TOTAL FUEL =	374. GALLONS		11661. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		860. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1256.	0.	1256.	1256.	0.	1256.	3850.	0.	0.	0.	.33	50.	12.6	B	17.4	2.3
2	2	2070.	448.	0.	1704.	448.	0.	1704.	3850.	0.	0.	0.	.44	50.	17.0	B	15.9	2.3
3	3	2300.	1328.	320.	3032.	1328.	320.	3032.	5938.	162.	0.	0.	.51	55.	18.4	C	14.0	2.4
4	3	1020.	0.	0.	2712.	0.	0.	2712.	6100.	0.	0.	0.	.44	62.	14.6	B	19.9	4.8
5	3	710.	108.	0.	2820.	108.	0.	2820.	6100.	0.	0.	0.	.46	62.	15.2	B	16.1	4.4
6	3	3820.	240.	596.	3060.	240.	596.	3060.	6150.	0.	0.	0.	.50	62.	16.5	B	17.1	4.8
7	2	1220.	0.	0.	2464.	0.	0.	2464.	4400.	0.	0.	0.	.56	62.	19.9	C	18.2	4.4
8	3	4810.	396.	712.	2860.	396.	712.	2860.	6100.	0.	0.	0.	.47	62.	15.4	B	20.6	4.4
9	2	1370.	0.	0.	2148.	0.	0.	2148.	4000.	0.	0.	0.	.54	62.	17.3	B	23.6	4.4
10	2	660.	216.	0.	2364.	216.	0.	2364.	4378.	22.	0.	0.	.54	62.	19.1	C	23.6	4.4
11	3	790.	532.	632.	2896.	532.	632.	2896.	5658.	442.	0.	0.	.51	62.	15.6	B	30.0	4.4
12	2	1460.	0.	0.	2264.	0.	0.	2264.	4100.	0.	0.	0.	.55	62.	18.3	C	20.6	4.4
13	3	1400.	300.	0.	2564.	300.	0.	2564.	6057.	43.	0.	0.	.42	62.	13.8	B	13.6	4.4
14	3	2600.	0.	420.	2564.	0.	420.	2564.	6057.	43.	0.	0.	.42	62.	13.8	B	20.6	4.4
15	2	2010.	0.	0.	2144.	0.	0.	2144.	3900.	0.	0.	0.	.55	62.	17.3	B	14.7	4.4
16	3	6120.	288.	544.	2432.	288.	544.	2432.	6100.	0.	0.	0.	.40	62.	13.1	B	18.2	4.4
17	2	1240.	0.	0.	1888.	0.	0.	1888.	4300.	0.	0.	0.	.44	62.	15.2	B	18.2	4.4
18	3	930.	180.	0.	2068.	180.	0.	2068.	6100.	0.	0.	0.	.34	62.	11.1	B	20.6	4.4
19	3	5330.	72.	428.	2140.	72.	428.	2140.	6100.	0.	0.	0.	.35	62.	11.5	B	20.6	4.4
20	2	2830.	0.	0.	1712.	0.	0.	1712.	3800.	0.	0.	0.	.45	61.	14.0	B	21.1	3.8
21	3	1660.	280.	452.	1992.	280.	452.	1992.	6100.	0.	0.	0.	.33	61.	10.9	A	21.1	3.8
22	2	2270.	0.	0.	1540.	0.	0.	1540.	4400.	0.	0.	0.	.35	62.	12.4	B	20.6	4.4
23	2	3040.	84.	308.	1624.	84.	308.	1624.	4100.	0.	0.	0.	.40	62.	13.1	B	20.6	4.4
24	2	2190.	0.	0.	1316.	0.	0.	1316.	4200.	0.	0.	0.	.31	65.	10.1	A	19.2	6.1
25	3	2400.	32.	1348.	1348.	32.	1348.	1348.	6150.	0.	0.	0.	.22	65.	6.9	A	18.6	6.6
TOTAL		60550. =	11.5 MILES							MAX(V/C) = 0.56	LOWEST LOS = C		AVG = 60.		13.9		18.5	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	102. VEH-HRS	120. PASS-HRS	3889. VEH-HRS	4589. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	102. VEH-HRS	120. PASS-HRS	3889. VEH-HRS	4589. PASS-HRS
TOTAL TRAV DISTANCE =	6134. VEH-MI.	7238. PASS-MI.	225484. VEH-MI.	266071. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		58. MPH.	
AVERAGE DENSITY =	14. VPMPL		24. VPMPL	
TOTAL FUEL =	331. GALLONS		11991. GALLONS	
TOTAL EMISSIONS =	26. KILOGRAMS		886. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME (VEH-HR)	FREEWAY TRAVEL TIME (PAS-HR)	RAMP DELAY (VEH-HR)	RAMP DELAY (PAS-HR)	TOTAL FREEWAY TRAVEL TIME (VEH-HR)	TOTAL FREEWAY TRAVEL TIME (PAS-HR)	TOTAL TRAVEL DISTANCE (VEH-MI)	TOTAL TRAVEL DISTANCE (PAS-MI)	AVERAGE SPEED (MPH)	GASOLINE CONSUMED (GALLONS)	HYDROCARB EMISSIONS (KILOGRAMS)	CARBON MONOXIDE (KILOGRAMS)	NITROUS OXIDES (KILOGRAMS)	BEGIN TIME
1	180.	213.	0.	0.	180.	213.	10723.	12653.	59.5	564.	1.	30.	9.	14:00
2	197.	232.	0.	0.	197.	232.	11488.	13556.	58.4	602.	2.	31.	10.	14:15
3	187.	221.	0.	0.	187.	221.	11016.	12999.	58.9	578.	2.	30.	9.	14:30
4	207.	244.	0.	0.	207.	244.	11760.	13877.	56.8	613.	2.	31.	10.	14:45
5	184.	218.	0.	0.	184.	218.	10538.	12435.	57.1	555.	2.	30.	9.	15:00
6	179.	211.	0.	0.	179.	211.	10531.	12426.	59.0	554.	1.	30.	9.	15:15
7	172.	203.	0.	0.	172.	203.	10248.	12092.	59.5	541.	1.	30.	9.	15:30
8	194.	229.	0.	0.	194.	229.	11288.	13319.	58.2	597.	2.	32.	10.	15:45
9	190.	225.	0.	0.	190.	225.	10901.	12864.	57.3	578.	2.	31.	9.	16:00
10	202.	238.	0.	0.	202.	238.	11131.	13134.	55.2	592.	2.	31.	9.	16:15
11	205.	242.	0.	0.	205.	242.	10690.	12615.	52.0	571.	2.	31.	9.	16:30
12	208.	245.	0.	0.	208.	245.	10636.	12551.	51.3	571.	2.	31.	9.	16:45
13	168.	198.	0.	0.	168.	198.	9312.	10988.	55.5	496.	1.	28.	8.	17:00
14	157.	185.	0.	0.	157.	185.	9429.	11127.	60.0	506.	1.	29.	8.	17:15
15	154.	181.	0.	0.	154.	181.	9225.	10886.	60.1	494.	1.	28.	8.	17:30
16	162.	191.	0.	0.	162.	191.	9701.	11447.	59.8	523.	1.	30.	9.	17:45
17	153.	181.	0.	0.	153.	181.	9212.	10870.	60.1	497.	1.	29.	8.	18:00
18	154.	182.	0.	0.	154.	182.	9270.	10938.	60.2	498.	1.	29.	8.	18:15
19	156.	184.	0.	0.	156.	184.	9360.	11045.	60.1	502.	1.	29.	8.	18:30
20	140.	165.	0.	0.	140.	165.	8477.	10003.	60.5	455.	1.	27.	7.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	123.	145.	0.	0.	123.	145.	7449.	8790.	60.5	400.	1.	24.	7.	19:00
22	115.	136.	0.	0.	115.	136.	6965.	8219.	60.5	374.	1.	22.	6.	19:15
23	102.	120.	0.	0.	102.	120.	6134.	7238.	60.4	331.	1.	19.	5.	19:30
TOTAL	3889.	4589.	0.	0.	3889.	4589.	225484.	266071.	58.0	11991.	33.	659.	194.	

Horizon Year (2045) Final Build
(Aux Lanes and BOS)
Northbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2516.	28.	2516.	2516.	28.	2516.	4400.	0.	0.	0.	.57	62.	20.3	C	13.6	4.8
2	2	1970.	0.	0.	2488.	0.	0.	2488.	4100.	0.	0.	0.	.61	62.	20.1	C	13.6	4.8
3	2	1830.	184.	40.	2672.	184.	40.	2672.	4100.	0.	0.	0.	.65	62.	21.5	C	13.6	4.8
4	2	2010.	0.	0.	2632.	0.	0.	2632.	4100.	0.	0.	0.	.64	62.	21.2	C	13.6	4.8
5	3	2445.	328.	116.	2960.	328.	116.	2960.	5600.	0.	0.	0.	.53	62.	15.9	B	13.6	4.8
6	2	1890.	0.	0.	2844.	0.	0.	2844.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
7	3	5320.	400.	136.	3244.	400.	136.	3244.	5600.	0.	0.	0.	.58	62.	17.4	B	13.6	4.8
8	2	880.	0.	0.	3108.	0.	0.	3108.	3900.	0.	0.	0.	.80	61.	25.5	C	15.2	4.2
9	2	1125.	88.	0.	3196.	88.	0.	3196.	3900.	0.	0.	0.	.82	61.	26.4	D	20.6	4.0
10	3	6320.	252.	88.	3448.	252.	88.	3448.	5599.	1.	0.	0.	.62	62.	18.5	C	19.9	4.8
11	2	2050.	0.	0.	3360.	0.	0.	3360.	4100.	0.	0.	0.	.82	61.	27.7	D	20.6	4.0
12	3	2560.	236.	0.	3596.	236.	0.	3596.	5588.	12.	0.	0.	.64	62.	19.3	C	17.2	4.8
13	3	1400.	0.	180.	3596.	0.	180.	3596.	5588.	12.	0.	0.	.64	62.	19.3	C	32.3	4.8
14	2	1320.	0.	0.	3416.	0.	0.	3416.	4400.	0.	0.	0.	.78	61.	27.8	D	15.1	4.4
15	3	540.	396.	592.	3812.	396.	592.	3812.	5264.	336.	0.	0.	.72	62.	20.5	C	12.6	4.8
16	2	1230.	0.	0.	3220.	0.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	20.0	4.7
17	2	890.	416.	0.	3636.	416.	0.	3636.	4399.	1.	0.	0.	.83	60.	30.1	D	20.7	3.9
18	3	4840.	76.	476.	3712.	76.	476.	3712.	5571.	29.	0.	0.	.67	62.	20.0	C	17.2	4.8
19	2	530.	0.	0.	3236.	0.	0.	3236.	3800.	0.	0.	0.	.85	60.	27.1	D	21.0	3.5
20	2	1040.	504.	0.	3740.	504.	0.	3740.	4392.	8.	0.	0.	.85	60.	31.3	D	21.0	3.5
21	3	2810.	332.	288.	4072.	332.	288.	4072.	5575.	25.	0.	0.	.73	62.	21.9	C	24.1	4.8
22	2	1850.	0.	0.	3784.	0.	0.	3784.	4400.	0.	0.	0.	.86	59.	31.8	D	18.1	3.5
23	3	2390.	212.	200.	3996.	212.	200.	3996.	5559.	41.	0.	0.	.72	62.	21.5	C	24.1	4.8
24	3	960.	0.	1980.	3796.	0.	1500.	3796.	5591.	9.	0.	0.	.68	62.	20.4	C	17.2	4.8
25	2	1400.	0.	1816.	1816.	0.	1816.	1816.	3600.	0.	0.	0.	.50	62.	14.6	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 0.86		LOWEST LOS = D	AVG = 62.	21.2		16.6	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	152. VEH-HRS	172. PASS-HRS	152. VEH-HRS	172. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	15. VEH-HRS	17. PASS-HRS	15. VEH-HRS	17. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	167. VEH-HRS	189. PASS-HRS	167. VEH-HRS	189. PASS-HRS
TOTAL TRAV DISTANCE =	9383. VEH-MI.	10622. PASS-MI.	9383. VEH-MI.	10622. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		62. MPH.	
AVERAGE DENSITY =	21. VPMPL		21. VPMPL	
TOTAL FUEL =	569. GALLONS		569. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		44. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	120.	15.00	5.68	0.09	0.54	0.09	0.72

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3204.	24.	3204.	3204.	24.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	13.6	4.7
2	2	1970.	0.	0.	3180.	0.	0.	3180.	4100.	0.	0.	0.	.78	61.	25.9	C	13.7	4.4
3	2	1830.	200.	56.	3380.	200.	56.	3380.	4100.	0.	0.	0.	.82	60.	27.9	D	14.0	3.9
4	2	2010.	0.	0.	3324.	0.	0.	3324.	4100.	0.	0.	0.	.81	61.	27.3	D	13.9	4.1
5	3	2445.	432.	140.	3756.	432.	140.	3756.	5600.	0.	0.	0.	.67	62.	20.2	C	13.6	4.8
6	2	1890.	0.	0.	3616.	0.	0.	3616.	4100.	0.	0.	0.	.88	59.	30.8	D	14.4	3.3
7	3	5320.	404.	188.	4020.	404.	188.	3968.	5600.	0. *	183.	52.	.71	60.	22.0	F	13.5	4.8
8	2	880.	0.	0.	3832.	0.	0.	3780.	3900.	0. **	880.	52.	.97	38.	49.6	F	15.5	2.7
9	2	1125.	120.	0.	3952.	120.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	296.	104.	4248.	296.	103.	4196.	5598.	2.	0.	0.	.75	62.	22.6	C	19.9	4.8
11	2	2050.	0.	0.	4144.	0.	0.	4093.	4100.	0.	0.	0.	.99	52.	39.6	E	23.0	2.3
12	3	2560.	268.	0.	4412.	268.	0.	4361.	5588.	12.	0.	0.	.78	62.	23.4	C	17.2	4.8
13	3	1400.	0.	188.	4412.	0.	186.	4361.	5588.	12.	0.	0.	.78	62.	23.4	C	32.3	4.8
14	2	1320.	0.	0.	4224.	0.	0.	4175.	4400.	0.	0.	0.	.95	55.	37.8	E	16.6	2.4
15	3	540.	396.	796.	4620.	396.	788.	4571.	5272.	328.	0.	0.	.87	62.	24.6	C	12.6	4.8
16	2	1230.	0.	0.	3824.	0.	0.	3784.	4400.	0.	0.	0.	.86	59.	31.8	D	21.1	3.5
17	2	890.	452.	0.	4276.	452.	0.	4236.	4396.	4.	0.	0.	.96	54.	39.0	E	22.5	2.4
18	3	4840.	92.	604.	4368.	92.	598.	4328.	5557.	43.	0.	0.	.78	62.	23.3	C	17.2	4.8
19	2	530.	0.	0.	3764.	0.	0.	3729.	3800.	0.	0.	0.	.98	53.	35.2	E	22.7	2.4
20	2	1040.	488.	0.	4252.	488.	0.	4217.	4390.	10.	0.	0.	.96	54.	38.7	E	22.4	2.4
21	3	2810.	388.	380.	4640.	388.	377.	4605.	5571.	29.	0.	0.	.83	62.	24.8	C	24.1	4.8
22	2	1850.	0.	0.	4260.	0.	0.	4228.	4400.	0.	0.	0.	.96	54.	38.8	E	19.4	2.4
23	3	2390.	204.	312.	4464.	204.	310.	4432.	5550.	50.	0.	0.	.80	62.	23.8	C	24.1	4.8
24	3	960.	0.	1948.	4152.	0.	1500.	4122.	5584.	16.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	2204.	2204.	0.	2188.	2188.	3600.	0.	0.	0.	.61	62.	17.6	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 60.	26.7		16.8	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	191. VEH-HRS	216. PASS-HRS	343. VEH-HRS	388. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	44. VEH-HRS	49. PASS-HRS	59. VEH-HRS	66. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	234. VEH-HRS	265. PASS-HRS	401. VEH-HRS	454. PASS-HRS
TOTAL TRAV DISTANCE =	11357. VEH-MI.	12856. PASS-MI.	20740. VEH-MI.	23478. PASS-MI.
AVERAGE SYSTEM SPEED =	49. MPH.		61. MPH.	
AVERAGE DENSITY =	27. VPMPL		24. VPMPL	
TOTAL FUEL =	692. GALLONS		1261. GALLONS	
TOTAL EMISSIONS =	50. KILOGRAMS		95. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	229.	43.56	16.50	0.25	1.56	0.27	2.08

QUEUE COLLISION IN SECTION 2 T2 =0.062

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	4264.	36.	4264.	4264.	36.	3860.	4400.	0.	* 5917.	404.	.88	45.	43.1	F	14.8	2.6
2	2	1970.	0.	0.	4228.	0.	0.	3824.	4100.	0.	** 1970.	276.	.93	32.	59.2	F	13.9	3.1
3	2	1830.	276.	240.	4504.	276.	219.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
4	2	2010.	0.	0.	4264.	0.	0.	3881.	4100.	0.	0.	0.	.95	55.	35.1	E	15.1	2.5
5	3	2445.	480.	168.	4744.	480.	154.	4254.	5600.	0.	* 788.	107.	.76	44.	32.4	F	13.2	4.9
6	2	1890.	0.	0.	4576.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	15.7	2.3
7	3	5320.	440.	260.	5016.	440.	235.	3975.	5600.	0.	* 3920.	565.	.71	29.	46.0	F	12.6	5.2
8	2	880.	0.	0.	4756.	0.	0.	3740.	3900.	0.	** 880.	160.	.96	34.	55.3	F	15.0	2.9
9	2	1125.	160.	0.	4916.	160.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	288.	156.	5204.	288.	125.	4188.	5597.	3.	0.	0.	.75	62.	22.5	C	19.9	4.8
11	2	2050.	0.	0.	5048.	0.	0.	4063.	4100.	0.	0.	0.	.99	52.	38.9	E	22.9	2.3
12	3	2560.	336.	0.	5384.	336.	0.	4399.	5584.	16.	0.	0.	.79	62.	23.6	C	17.2	4.8
13	3	1400.	0.	260.	5384.	0.	212.	4399.	5584.	16.	0.	0.	.79	62.	23.6	C	32.3	4.8
14	2	1320.	0.	0.	5124.	0.	0.	4186.	4400.	0.	0.	0.	.95	55.	38.0	E	16.7	2.4
15	3	540.	460.	1056.	5584.	460.	879.	4646.	5228.	372.	0.	0.	.89	58.	26.6	D	13.4	3.2
16	2	1230.	0.	0.	4528.	0.	0.	3768.	4400.	0.	0.	0.	.86	60.	31.6	D	21.0	3.5
17	2	890.	460.	0.	4988.	460.	0.	4228.	4393.	7.	0.	0.	.96	54.	38.9	E	22.5	2.4
18	3	4840.	76.	764.	5064.	76.	650.	4304.	5548.	52.	0.	0.	.78	62.	23.1	C	17.2	4.8
19	2	530.	0.	0.	4300.	0.	0.	3654.	3800.	0.	0.	0.	.96	54.	33.6	D	22.4	2.4
20	2	1040.	492.	0.	4792.	492.	0.	4146.	4385.	15.	0.	0.	.95	55.	37.4	E	22.2	2.5
21	3	2810.	452.	584.	5244.	452.	513.	4598.	5559.	41.	0.	0.	.83	62.	24.7	C	24.1	4.8
22	2	1850.	0.	0.	4660.	0.	0.	4085.	4400.	0.	0.	0.	.93	56.	36.2	E	18.9	2.7
23	3	2390.	180.	308.	4840.	180.	271.	4265.	5549.	51.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	2136.	4532.	0.	1500.	3994.	5583.	17.	0.	0.	.72	62.	21.5	C	17.2	4.8
25	2	1400.	0.	2396.	2396.	0.	2111.	2111.	3600.	0.	0.	0.	.59	62.	17.0	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 49.	34.6		16.8	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	252. VEH-HRS	285. PASS-HRS	595. VEH-HRS	673. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	69. VEH-HRS	78. PASS-HRS	128. VEH-HRS	144. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	321. VEH-HRS	364. PASS-HRS	722. VEH-HRS	818. PASS-HRS
TOTAL TRAV DISTANCE =	12270. VEH-MI.	13890. PASS-MI.	33010. VEH-MI.	37367. PASS-MI.
AVERAGE SYSTEM SPEED =	38. MPH.		56. MPH.	
AVERAGE DENSITY =	35. VPMPL		28. VPMPL	
TOTAL FUEL =	755. GALLONS		2016. GALLONS	
TOTAL EMISSIONS =	49. KILOGRAMS		144. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	324.	69.08	26.16	0.40	2.47	0.43	3.30

QUEUE COLLISION IN SECTION 6 T2 =0.142
QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	4504.	68.	4504.	4400.	66.	3651.	4400.	0.	**12900.	749.	.83	24.	76.0	F	12.7	4.0
2	2	1970.	0.	0.	4436.	0.	0.	3584.	4100.	0.	** 1970.	516.	.87	25.	72.3	F	12.8	3.8
3	2	1830.	368.	504.	4804.	368.	415.	3952.	3952.	148.	0.	0.	1.00	52.	38.3	E	15.7	2.3
4	2	2010.	0.	0.	4300.	0.	0.	2907.	4100.	0.	* 655.	630.	.71	57.	25.6	F	14.2	3.5
5	3	2445.	868.	236.	5168.	868.	201.	3775.	5504.	96.	** 2445.	630.	.69	28.	45.6	F	12.4	5.2
6	2	1890.	0.	0.	4932.	0.	0.	3574.	4100.	0.	** 1890.	526.	.87	34.	53.2	F	14.1	3.1
7	3	5320.	468.	344.	5400.	468.	290.	4042.	5600.	0.	** 5320.	526.	.72	16.	85.2	F	11.3	5.6
8	2	880.	0.	0.	5056.	0.	0.	3751.	3900.	0.	** 880.	149.	.96	34.	54.8	F	15.0	2.9
9	2	1125.	148.	0.	5204.	148.	0.	3899.	3899.	1.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	332.	232.	5536.	332.	177.	4231.	5594.	6.	0.	0.	.76	62.	22.7	C	19.9	4.8
11	2	2050.	0.	0.	5304.	0.	0.	4054.	4100.	0.	0.	0.	.99	52.	38.6	E	22.8	2.4
12	3	2560.	392.	0.	5696.	392.	0.	4446.	5568.	32.	0.	0.	.80	62.	23.9	C	17.2	4.8
13	3	1400.	0.	440.	5696.	0.	343.	4446.	5568.	32.	0.	0.	.80	62.	23.9	C	32.3	4.8
14	2	1320.	0.	0.	5256.	0.	0.	4102.	4400.	0.	0.	0.	.93	56.	36.5	E	16.4	2.7
15	3	540.	516.	1280.	5772.	516.	1024.	4618.	5200.	400.	0.	0.	.89	62.	24.8	C	12.6	4.8
16	2	1230.	0.	0.	4492.	0.	0.	3594.	4400.	0.	0.	0.	.82	61.	29.6	D	20.6	4.0
17	2	890.	460.	0.	4952.	460.	0.	4054.	4393.	7.	0.	0.	.92	57.	35.8	E	21.8	2.8
18	3	4840.	88.	864.	5040.	88.	711.	4142.	5539.	61.	0.	0.	.75	62.	22.3	C	17.2	4.8
19	2	530.	0.	0.	4176.	0.	0.	3432.	3800.	0.	0.	0.	.90	58.	29.7	D	21.6	3.1
20	2	1040.	540.	0.	4716.	540.	0.	3972.	4378.	22.	0.	0.	.91	57.	34.5	D	21.6	3.0
21	3	2810.	468.	764.	5184.	468.	654.	4440.	5522.	78.	0.	0.	.80	62.	23.9	C	24.1	4.8
22	2	1850.	0.	0.	4420.	0.	0.	3786.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	236.	188.	4656.	236.	163.	4022.	5534.	66.	0.	0.	.73	62.	21.6	C	24.1	4.8
24	3	960.	0.	2288.	4468.	0.	1500.	3858.	5580.	20.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2180.	2180.	0.	1883.	1883.	3600.	0.	0.	0.	.52	62.	15.2	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 36.	45.2		15.9	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	325. VEH-HRS	368. PASS-HRS	920. VEH-HRS	1041. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	27. VEH-HRS	30. PASS-HRS	27. VEH-HRS	30. PASS-HRS
OFF-RAMP DELAY =	96. VEH-HRS	109. PASS-HRS	224. VEH-HRS	253. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	447. VEH-HRS	507. PASS-HRS	1170. VEH-HRS	1324. PASS-HRS
TOTAL TRAV DISTANCE =	11687. VEH-MI.	13230. PASS-MI.	44697. VEH-MI.	50597. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		49. MPH.	
AVERAGE DENSITY =	45. VPMPL		32. VPMPL	
TOTAL FUEL =	783. GALLONS		2799. GALLONS	
TOTAL EMISSIONS =	55. KILOGRAMS		199. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	213.	26.66	10.10	0.16	0.95	0.17	1.28
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	213.	26.66	10.10	0.16	0.95	0.17	1.28
OFF-RAMP	11	OUTPUT POINT	443.	95.89	36.32	0.56	3.43	0.60	4.59

QUEUE COLLISION IN SECTION 3 T2 =0.172
QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2616.	92.	2616.	2616.	92.	2771.	4400.	0.	* 9828.	-155.	.63	15.	90.7	F	11.1	5.8
2	2	1970.	0.	0.	2524.	0.	0.	2679.	4100.	0.	** 1970.	-155.	.65	15.	89.7	F	11.1	5.7
3	2	1830.	624.	684.	3148.	624.	801.	3303.	3685.	415.	** 1830.	382.	.90	38.	43.3	F	14.6	2.8
4	2	2010.	0.	0.	2464.	0.	0.	2503.	4100.	0.	** 2010.	382.	.61	13.	98.2	F	10.4	6.3
5	3	2445.	1720.	340.	4184.	1500.	356.	4003.	5400.	200.	** 2445.	382.	.74	16.	83.1	F	11.3	5.5
6	2	1890.	0.	0.	3844.	0.	0.	3647.	4100.	0.	** 1890.	382.	.89	26.	69.8	F	13.0	3.7
7	3	5320.	564.	444.	4408.	564.	463.	4211.	5600.	0.	** 5320.	382.	.75	17.	84.5	F	11.4	5.4
8	2	880.	0.	0.	3964.	0.	0.	3748.	3900.	0.	** 880.	152.	.96	34.	55.0	F	15.0	2.9
9	2	1125.	152.	0.	4116.	152.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	456.	280.	4572.	456.	267.	4356.	5596.	4.	0.	0.	.78	62.	23.4	C	19.9	4.8
11	2	2050.	0.	0.	4292.	0.	0.	4089.	4100.	0.	0.	0.	.99	52.	39.5	E	23.0	2.3
12	3	2560.	428.	0.	4720.	428.	0.	4517.	5560.	40.	0.	0.	.81	62.	24.3	C	17.2	4.8
13	3	1400.	0.	440.	4720.	0.	421.	4517.	5560.	40.	0.	0.	.81	62.	24.3	C	32.3	4.8
14	2	1320.	0.	0.	4280.	0.	0.	4096.	4400.	0.	0.	0.	.93	56.	36.4	E	16.4	2.7
15	3	540.	712.	1236.	4992.	712.	1190.	4808.	5064.	536.	0.	0.	.95	55.	29.1	D	14.0	2.4
16	2	1230.	0.	0.	3756.	0.	0.	3618.	4400.	0.	0.	0.	.82	61.	29.9	D	20.7	3.9
17	2	890.	536.	0.	4292.	536.	0.	4154.	4397.	3.	0.	0.	.94	55.	37.5	E	22.2	2.5
18	3	4840.	124.	832.	4416.	124.	806.	4278.	5541.	59.	0.	0.	.77	62.	23.0	C	17.2	4.8
19	2	530.	0.	0.	3584.	0.	0.	3472.	3800.	0.	0.	0.	.91	57.	30.4	D	21.7	2.9
20	2	1040.	644.	0.	4228.	644.	0.	4116.	4377.	23.	0.	0.	.94	56.	36.9	E	22.1	2.6
21	3	2810.	568.	744.	4796.	568.	726.	4684.	5479.	121.	0.	0.	.85	60.	26.2	D	25.5	3.5
22	2	1850.	0.	0.	4052.	0.	0.	3957.	4400.	0.	0.	0.	.90	58.	34.2	D	18.5	3.1
23	3	2390.	304.	176.	4356.	304.	172.	4261.	5522.	78.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1848.	4180.	0.	1500.	4089.	5576.	24.	0.	0.	.73	62.	22.0	C	17.2	4.8
25	2	1400.	0.	2332.	2332.	0.	2281.	2281.	3600.	0.	0.	0.	.63	62.	18.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 29.	53.8		15.4	4.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	385. VEH-HRS	436. PASS-HRS	1305. VEH-HRS	1477. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	34. VEH-HRS	38. PASS-HRS	60. VEH-HRS	68. PASS-HRS
OFF-RAMP DELAY =	120. VEH-HRS	136. PASS-HRS	344. VEH-HRS	389. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	539. VEH-HRS	610. PASS-HRS	1709. VEH-HRS	1934. PASS-HRS
TOTAL TRAV DISTANCE =	11234. VEH-MI.	12717. PASS-MI.	55931. VEH-MI.	63314. PASS-MI.
AVERAGE SYSTEM SPEED =	21. MPH.		43. MPH.	
AVERAGE DENSITY =	54. VPMPL		36. VPMPL	
TOTAL FUEL =	787. GALLONS		3587. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		257. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	0.	26.66	10.10	0.16	0.95	0.17	1.28
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	0.	26.66	10.10	0.16	0.95	0.17	1.28
ON-RAMP 3	RAMP	55.	6.88	2.60	0.04	0.25	0.04	0.33
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	55.	6.88	2.60	0.04	0.25	0.04	0.33
OFF-RAMP 11	OUTPUT POINT	520.	120.37	45.59	0.70	4.31	0.75	5.76

QUEUE COLLISION IN SECTION 20 T2 =0.048

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2636.	120.	2636.	2636.	120.	2368.	4400.	0.	* 11342.	268.	.54	10.	114.7	F	9.2	7.1
2	2	1970.	0.	0.	2516.	0.	0.	2248.	4100.	0.	** 1970.	268.	.55	9.	126.9	F	8.7	7.5
3	2	1830.	724.	604.	3240.	724.	604.	2972.	3702.	398.	** 1830.	268.	.80	20.	76.1	F	11.8	4.7
4	2	2010.	0.	0.	2636.	0.	0.	2368.	4100.	0.	** 2010.	268.	.58	10.	122.0	F	9.4	7.0
5	3	2445.	1544.	456.	4180.	1500.	446.	3868.	5312.	288.	** 2445.	268.	.73	15.	83.6	F	11.3	5.6
6	2	1890.	0.	0.	3724.	0.	0.	3422.	4100.	0.	** 1890.	268.	.83	22.	78.9	F	12.2	4.3
7	3	5320.	852.	600.	4576.	852.	590.	4274.	5600.	0.	** 5320.	268.	.76	17.	82.8	F	11.5	5.2
8	2	880.	0.	0.	3976.	0.	0.	3684.	3900.	0.	** 880.	216.	.94	32.	57.6	F	14.8	3.1
9	2	1125.	216.	0.	4192.	216.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	552.	380.	4744.	552.	354.	4452.	5591.	9.	0.	0.	.80	62.	23.9	C	19.9	4.8
11	2	2050.	0.	0.	4364.	0.	0.	4098.	4100.	0.	0.	0.	.99	52.	39.7	E	23.0	2.3
12	3	2560.	576.	0.	4940.	576.	0.	4235.	5564.	36.	* 1513.	439.	.76	46.	30.6	F	17.3	3.8
13	3	1400.	0.	316.	4940.	0.	303.	4235.	5564.	36.	** 1400.	439.	.76	23.	60.5	F	29.3	4.6
14	2	1320.	0.	0.	4624.	0.	0.	3932.	4400.	0.	** 1320.	439.	.89	28.	71.2	F	14.2	3.5
15	3	540.	944.	1300.	5568.	944.	1140.	4876.	4876.	724.	0.	0.	1.00	52.	31.5	E	14.5	2.3
16	2	1230.	0.	0.	4268.	0.	0.	3736.	4400.	0.	0.	0.	.85	60.	31.2	D	21.0	3.6
17	2	890.	628.	0.	4896.	628.	0.	4364.	4391.	9.	0.	0.	.99	52.	41.9	E	22.9	2.3
18	3	4840.	168.	872.	5064.	168.	782.	4305.	5522.	78.	* 1438.	227.	.78	49.	29.4	F	16.7	4.8
19	2	530.	0.	0.	4192.	0.	0.	3524.	3800.	0.	** 530.	227.	.93	32.	54.3	F	21.0	3.1
20	2	1040.	696.	0.	4888.	696.	0.	4220.	4370.	30.	** 1040.	150.	.97	36.	58.8	F	21.7	2.8
21	3	2810.	864.	940.	5752.	864.	830.	5084.	5084.	516.	0.	0.	1.00	52.	32.9	E	30.3	2.3
22	2	1850.	0.	0.	4812.	0.	0.	4254.	4400.	0.	0.	0.	.97	54.	39.4	E	19.5	2.4
23	3	2390.	304.	196.	5116.	304.	175.	4558.	5529.	71.	0.	0.	.82	62.	24.5	C	24.1	4.8
24	3	960.	0.	1692.	4920.	0.	1500.	4383.	5573.	27.	0.	0.	.79	62.	23.6	C	17.2	4.8
25	2	1400.	0.	3228.	3228.	0.	2871.	2871.	3600.	0.	0.	0.	.80	62.	23.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 24.	65.5		14.9	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	454. VEH-HRS	514. PASS-HRS	1759. VEH-HRS	1991. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	15. VEH-HRS	17. PASS-HRS	75. VEH-HRS	85. PASS-HRS
OFF-RAMP DELAY =	130. VEH-HRS	148. PASS-HRS	474. VEH-HRS	537. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	600. VEH-HRS	679. PASS-HRS	2309. VEH-HRS	2613. PASS-HRS
TOTAL TRAV DISTANCE =	10999. VEH-MI.	12451. PASS-MI.	66930. VEH-MI.	75765. PASS-MI.
AVERAGE SYSTEM SPEED =	18. MPH.		38. MPH.	
AVERAGE DENSITY =	66. VPMPL		41. VPMPL	
TOTAL FUEL =	793. GALLONS		4380. GALLONS	
TOTAL EMISSIONS =	58. KILOGRAMS		315. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	3	RAMP	66.	15.12	5.73	0.09	0.54	0.09	0.72
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	66.	15.12	5.73	0.09	0.54	0.09	0.72
OFF-RAMP	11	OUTPUT POINT	523.	130.37	49.38	0.76	4.66	0.81	6.24

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3372.	152.	3372.	3372.	152.	2825.	4400.	0.	**12900.	547.	.64	12.	116.6	F	10.3	6.4
2	2	1970.	0.	0.	3220.	0.	0.	2673.	4100.	0.	** 1970.	547.	.65	12.	109.5	F	10.3	6.4
3	2	1830.	448.	264.	3668.	448.	264.	3121.	4077.	23.	** 1830.	547.	.77	17.	90.0	F	11.5	5.2
4	2	2010.	0.	0.	3404.	0.	0.	2857.	4100.	0.	** 2010.	547.	.70	14.	102.0	F	10.9	5.9
5	3	2445.	632.	356.	4036.	896.	384.	3753.	5405.	195.	** 2445.	547.	.69	14.	90.0	F	10.8	6.0
6	2	1890.	0.	0.	3680.	0.	0.	3369.	4100.	0.	** 1890.	547.	.82	21.	81.1	F	12.1	4.5
7	3	5320.	1072.	720.	4752.	1072.	750.	4441.	5512.	88.	** 5320.	547.	.81	20.	75.1	F	11.9	4.6
8	2	880.	0.	0.	4032.	0.	0.	3691.	3900.	0.	** 880.	209.	.95	32.	57.3	F	14.8	3.1
9	2	1125.	208.	0.	4240.	208.	0.	3899.	3899.	1.	0.	0.	1.00	52.	37.8	E	23.0	2.3
10	3	6320.	524.	436.	4764.	524.	402.	3571.	5588.	12.	* 3038.	852.	.64	40.	29.6	F	18.8	5.0
11	2	2050.	0.	0.	4328.	0.	0.	3169.	4100.	0.	** 2050.	852.	.77	23.	69.9	F	18.3	4.2
12	3	2560.	720.	0.	5048.	720.	0.	3889.	5564.	36.	** 2560.	852.	.70	15.	88.8	F	12.9	5.8
13	3	1400.	0.	244.	5048.	0.	233.	3889.	5564.	36.	** 1400.	852.	.70	14.	92.0	F	22.9	5.9
14	2	1320.	0.	0.	4804.	0.	0.	3656.	4400.	0.	** 1320.	744.	.83	21.	85.4	F	13.0	4.4
15	3	540.	1112.	1496.	5916.	1112.	1204.	4768.	4768.	832.	0.	0.	1.00	52.	30.8	E	14.5	2.3
16	2	1230.	0.	0.	4420.	0.	0.	3564.	4400.	0.	M 417.	0.	.81	61.	29.3	D	20.5	4.1
17	2	890.	644.	0.	5064.	644.	0.	3501.	4389.	11.	* 845.	641.	.80	51.	34.1	F	21.9	2.6
18	3	4840.	148.	808.	5212.	148.	667.	3649.	5524.	76.	B* 4840.	641.	.66	17.	70.0	F	13.5	5.8
19	2	530.	0.	0.	4404.	0.	0.	2982.	3800.	0.	BB 530.	641.	.78	18.	80.9	F	17.0	4.9
20	2	1040.	728.	0.	5132.	728.	0.	3598.	4363.	37.	** 1040.	641.	.82	21.	85.8	F	18.0	4.4
21	3	2810.	1124.	1160.	6256.	1124.	875.	4722.	4722.	878.	0.	0.	1.00	52.	30.5	E	30.3	2.3
22	2	1850.	0.	0.	5096.	0.	0.	3847.	4400.	0.	0.	0.	.87	59.	32.7	D	18.3	3.3
23	3	2390.	368.	260.	5464.	368.	199.	4215.	5509.	91.	0.	0.	.77	62.	22.7	C	24.1	4.8
24	3	960.	0.	1908.	5204.	0.	1500.	4016.	5563.	37.	0.	0.	.72	62.	21.6	C	17.2	4.8
25	2	1400.	0.	3296.	3296.	0.	2544.	2544.	3600.	0.	0.	0.	.71	62.	20.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 21.	72.9		14.2	5.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	522. VEH-HRS	590. PASS-HRS	2281. VEH-HRS	2582. PASS-HRS
FREEWAY MERGE DELAY =	6. VEH-HRS	6. PASS-HRS	6. VEH-HRS	6. PASS-HRS
ON-RAMP MRG/CAP DELAY =	25. VEH-HRS	29. PASS-HRS	101. VEH-HRS	114. PASS-HRS
OFF-RAMP DELAY =	130. VEH-HRS	147. PASS-HRS	604. VEH-HRS	684. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	682. VEH-HRS	772. PASS-HRS	2991. VEH-HRS	3386. PASS-HRS
TOTAL TRAV DISTANCE =	10749. VEH-MI.	12168. PASS-MI.	77679. VEH-MI.	87933. PASS-MI.
AVERAGE SYSTEM SPEED =	16. MPH.		34. MPH.	
AVERAGE DENSITY =	73. VPMPL		46. VPMPL	
TOTAL FUEL =	818. GALLONS		5198. GALLONS	
TOTAL EMISSIONS =	61. KILOGRAMS		376. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	137.	17.09	6.47	0.10	0.61	0.11	0.82
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	137.	17.09	6.47	0.10	0.61	0.11	0.82
ON-RAMP	3	RAMP	0.	8.25	3.12	0.05	0.30	0.05	0.39
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	8.25	3.12	0.05	0.30	0.05	0.39
ON-RAMP	9	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	17.	2.07	0.78	0.01	0.07	0.01	0.10
		TOTAL	17.	2.07	0.78	0.01	0.07	0.01	0.10
ON-RAMP	11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	28.	3.50	1.32	0.02	0.13	0.02	0.17
		TOTAL	28.	3.50	1.32	0.02	0.13	0.02	0.17
OFF-RAMP	11	OUTPUT POINT	516.	129.90	49.20	0.76	4.65	0.81	6.21

```
QUEUE COLLISION IN SECTION  15 T2 =0.090
QUEUE COLLISION IN SECTION   9 T2 =0.222
QUEUE OUT OF SECTION 1
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3032.	200.	3032.	3032.	200.	1771.	4400.	0.	* 12434.	1261.	.40	14.	61.9	F	10.9	5.8
2	2	1970.	0.	0.	2832.	0.	0.	1571.	4100.	0.	** 1970.	1261.	.38	14.	56.5	F	10.8	5.8
3	2	1830.	368.	252.	3200.	368.	252.	1939.	4100.	0.	** 1830.	1261.	.47	18.	52.7	F	11.6	4.7
4	2	2010.	0.	0.	2948.	0.	0.	1687.	4100.	0.	** 2010.	1261.	.41	15.	55.6	F	11.0	5.5
5	3	2445.	664.	344.	3612.	664.	344.	2351.	5530.	70.	** 2445.	1261.	.43	12.	63.5	F	10.3	6.3
6	2	1890.	0.	0.	3268.	0.	0.	2007.	4100.	0.	** 1890.	1261.	.49	19.	51.7	F	11.8	4.5
7	3	5320.	972.	728.	4240.	972.	728.	2979.	5600.	0.	** 5320.	1261.	.53	17.	58.3	F	11.4	5.1
8	2	880.	0.	0.	3512.	0.	0.	2251.	3900.	0.	** 880.	1261.	.58	28.	40.8	F	14.3	3.4
9	2	1125.	212.	0.	3724.	212.	0.	2463.	3900.	0.	** 1125.	1437.	.63	38.	32.5	F	21.4	2.8
10	3	6320.	464.	408.	4188.	464.	425.	2927.	5592.	8.	** 6320.	1437.	.52	15.	63.6	F	14.0	6.2
11	2	2050.	0.	0.	3780.	0.	0.	2501.	4100.	0.	** 2050.	1437.	.61	15.	85.8	F	15.3	5.7
12	3	2560.	828.	0.	4608.	828.	0.	3329.	5544.	56.	** 2560.	1437.	.60	13.	88.7	F	12.2	6.2
13	3	1400.	0.	312.	4608.	0.	323.	3329.	5544.	56.	** 1400.	1437.	.60	12.	92.0	F	20.3	6.3
14	2	1320.	0.	0.	4296.	0.	0.	2963.	4400.	0.	** 1320.	1437.	.67	15.	97.6	F	11.8	5.6
15	3	540.	1208.	1472.	5504.	1208.	1261.	4171.	4716.	884.	** 540.	545.	.88	31.	44.3	F	13.1	3.2
16	2	1230.	0.	0.	4032.	0.	0.	2909.	4400.	0.	** 1230.	545.	.66	15.	99.2	F	14.8	5.9
17	2	890.	500.	0.	4532.	500.	0.	3475.	4394.	6.	** 890.	545.	.79	19.	92.4	F	17.2	4.9
18	3	4840.	168.	744.	4700.	168.	664.	3643.	5543.	57.	** 4840.	545.	.66	12.	97.9	F	12.0	6.3
19	2	530.	0.	0.	3956.	0.	0.	2980.	3800.	0.	B* 530.	545.	.78	18.	81.0	F	17.0	4.9
20	2	1040.	728.	0.	4684.	728.	0.	3775.	4364.	36.	** 1040.	545.	.87	24.	78.6	F	19.0	3.9
21	3	2810.	1048.	1160.	5732.	1048.	976.	4823.	4823.	777.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4572.	0.	0.	3847.	4400.	0.	0.	0.	.87	59.	32.7	D	18.3	3.4
23	3	2390.	412.	308.	4984.	412.	263.	4259.	5492.	108.	0.	0.	.78	62.	22.9	C	24.1	4.8
24	3	960.	0.	1824.	4676.	0.	1500.	3996.	5561.	39.	0.	0.	.72	62.	21.5	C	17.2	4.8
25	2	1400.	0.	2852.	2852.	0.	2438.	2438.	3600.	0.	0.	0.	.68	62.	19.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 17.		62.3	13.4	5.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	596. VEH-HRS	675. PASS-HRS	2877. VEH-HRS	3257. PASS-HRS
FREEWAY MERGE DELAY =	2. VEH-HRS	2. PASS-HRS	7. VEH-HRS	8. PASS-HRS
ON-RAMP MRG/CAP DELAY =	17. VEH-HRS	19. PASS-HRS	118. VEH-HRS	133. PASS-HRS
OFF-RAMP DELAY =	131. VEH-HRS	148. PASS-HRS	735. VEH-HRS	832. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	746. VEH-HRS	845. PASS-HRS	3737. VEH-HRS	4231. PASS-HRS
TOTAL TRAV DISTANCE =	10377. VEH-MI.	11746. PASS-MI.	88056. VEH-MI.	99679. PASS-MI.
AVERAGE SYSTEM SPEED =	14. MPH.		31. MPH.	
AVERAGE DENSITY =	62. VPMPL		48. VPMPL	
TOTAL FUEL =	831. GALLONS		6029. GALLONS	
TOTAL EMISSIONS =	62. KILOGRAMS		438. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	0.	17.09	6.47	0.10	0.61	0.11	0.82
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	17.09	6.47	0.10	0.61	0.11	0.82
ON-RAMP	11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
		FREEWAY	11.	1.39	0.53	0.01	0.05	0.01	0.07
		TOTAL	11.	1.39	0.53	0.01	0.05	0.01	0.07
OFF-RAMP	11	OUTPUT POINT	531.	130.86	49.56	0.76	4.68	0.82	6.26

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3332.	196.	3332.	3332.	196.	1889.	4400.	0.	**12900.	1443.	.43	6.	157.3	F	7.1	9.1
2	2	1970.	0.	0.	3136.	0.	0.	1693.	4100.	0.	** 1970.	1443.	.41	6.	149.6	F	6.9	9.3
3	2	1830.	376.	308.	3512.	376.	308.	2069.	4086.	14.	** 1830.	1443.	.51	8.	133.5	F	8.0	8.1
4	2	2010.	0.	0.	3204.	0.	0.	1761.	4100.	0.	** 2010.	1443.	.43	6.	146.8	F	7.1	9.1
5	3	2445.	716.	492.	3920.	716.	492.	2477.	5378.	222.	** 2445.	1443.	.46	7.	123.8	F	7.4	8.7
6	2	1890.	0.	0.	3428.	0.	0.	1985.	4100.	0.	** 1890.	1443.	.48	7.	137.6	F	7.7	8.4
7	3	5320.	852.	700.	4280.	852.	700.	2837.	5600.	0.	** 5320.	1443.	.51	8.	121.9	F	8.0	8.1
8	2	880.	0.	0.	3580.	0.	0.	2137.	3900.	0.	** 880.	1443.	.55	9.	120.8	F	9.2	7.5
9	2	1125.	224.	0.	3804.	224.	0.	2361.	3900.	0.	** 1125.	1443.	.61	11.	111.6	F	12.9	6.7
10	3	6320.	416.	396.	4220.	416.	396.	2777.	5592.	8.	** 6320.	1443.	.50	8.	123.2	F	9.7	8.2
11	2	2050.	0.	0.	3824.	0.	0.	2381.	4100.	0.	** 2050.	1443.	.58	10.	121.5	F	12.3	7.0
12	3	2560.	824.	0.	4648.	824.	0.	3205.	5540.	60.	** 2560.	1443.	.58	10.	109.8	F	10.9	7.0
13	3	1400.	0.	344.	4648.	0.	344.	3205.	5540.	60.	** 1400.	1443.	.58	10.	109.8	F	17.0	7.0
14	2	1320.	0.	0.	4304.	0.	0.	2861.	4400.	0.	** 1320.	1443.	.65	12.	117.9	F	10.9	6.4
15	3	540.	1252.	1456.	5556.	1252.	1225.	4113.	4676.	924.	** 540.	563.	.88	25.	54.3	F	12.4	3.7
16	2	1230.	0.	0.	4100.	0.	0.	2888.	4400.	0.	** 1230.	563.	.66	12.	116.8	F	13.8	6.3
17	2	890.	528.	0.	4628.	528.	0.	3416.	4394.	6.	** 890.	563.	.78	18.	94.9	F	16.8	5.0
18	3	4840.	212.	668.	4840.	212.	578.	3628.	5548.	52.	** 4840.	563.	.65	12.	98.5	F	12.0	6.3
19	2	530.	0.	0.	4172.	0.	0.	3050.	3800.	0.	B* 530.	563.	.80	20.	78.2	F	17.5	4.7
20	2	1040.	688.	0.	4860.	688.	0.	3781.	4365.	35.	** 1040.	563.	.87	24.	78.4	F	19.0	3.9
21	3	2810.	1048.	1168.	5908.	1048.	954.	4829.	4829.	771.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4740.	0.	0.	3875.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	444.	264.	5184.	444.	221.	4319.	5486.	114.	0.	0.	.79	62.	23.2	C	24.1	4.8
24	3	960.	0.	1872.	4920.	0.	1500.	4098.	5556.	44.	0.	0.	.74	62.	22.0	C	17.2	4.8
25	2	1400.	0.	3048.	3048.	0.	2538.	2538.	3600.	0.	0.	0.	.71	62.	20.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 10.	112.6		10.8	6.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	801. VEH-HRS	906. PASS-HRS	3678. VEH-HRS	4163. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	7. VEH-HRS	8. PASS-HRS
ON-RAMP MRG/CAP DELAY =	45. VEH-HRS	51. PASS-HRS	163. VEH-HRS	184. PASS-HRS
OFF-RAMP DELAY =	135. VEH-HRS	152. PASS-HRS	870. VEH-HRS	984. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	980. VEH-HRS	1110. PASS-HRS	4718. VEH-HRS	5341. PASS-HRS
TOTAL TRAV DISTANCE =	8232. VEH-MI.	9318. PASS-MI.	96287. VEH-MI.	108997. PASS-MI.
AVERAGE SYSTEM SPEED =	8. MPH.		26. MPH.	
AVERAGE DENSITY =	113. VPMPL		55. VPMPL	
TOTAL FUEL =	832. GALLONS		6861. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		501. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	361.	45.10	17.08	0.26	1.61	0.28	2.16
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	361.	45.10	17.08	0.26	1.61	0.28	2.16
OFF-RAMP	11	OUTPUT POINT	546.	134.54	50.96	0.78	4.81	0.84	6.44

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3404.	180.	3404.	3404.	180.	2016.	4400.	0.	**12900.	1388.	.46	7.	152.4	F	7.3	8.7
2	2	1970.	0.	0.	3224.	0.	0.	1836.	4100.	0.	** 1970.	1388.	.45	6.	143.7	F	7.2	8.9
3	2	1830.	404.	416.	3628.	404.	416.	2240.	3993.	107.	** 1830.	1388.	.56	9.	121.5	F	9.0	7.3
4	2	2010.	0.	0.	3212.	0.	0.	1824.	4100.	0.	** 2010.	1388.	.44	6.	144.2	F	7.2	8.9
5	3	2445.	984.	508.	4196.	984.	508.	2808.	5290.	310.	** 2445.	1388.	.53	8.	111.7	F	8.4	7.8
6	2	1890.	0.	0.	3688.	0.	0.	2300.	4100.	0.	** 1890.	1388.	.56	9.	124.8	F	9.0	7.3
7	3	5320.	776.	688.	4464.	776.	688.	3076.	5600.	0.	** 5320.	1388.	.55	9.	115.4	F	8.8	7.5
8	2	880.	0.	0.	3776.	0.	0.	2388.	3900.	0.	** 880.	1388.	.61	11.	110.5	F	10.5	6.7
9	2	1125.	188.	0.	3964.	188.	0.	2576.	3900.	0.	** 1125.	1324.	.66	13.	102.8	F	13.9	6.3
10	3	6320.	372.	412.	4336.	372.	406.	2948.	5592.	8.	** 6320.	1324.	.53	8.	118.6	F	10.5	7.8
11	2	2050.	0.	0.	3924.	0.	0.	2542.	4100.	0.	** 2050.	1324.	.62	11.	114.9	F	13.1	6.6
12	3	2560.	736.	0.	4660.	736.	0.	3278.	5548.	52.	** 2560.	1324.	.59	10.	108.1	F	11.2	6.8
13	3	1400.	0.	320.	4660.	0.	316.	3278.	5548.	52.	** 1400.	1324.	.59	10.	108.1	F	17.7	6.8
14	2	1320.	0.	0.	4340.	0.	0.	2962.	4400.	0.	** 1320.	1324.	.67	13.	113.8	F	11.2	6.2
15	3	540.	1172.	1392.	5512.	1172.	1193.	4134.	4724.	876.	** 540.	590.	.88	25.	55.4	F	12.3	3.8
16	2	1230.	0.	0.	4120.	0.	0.	2941.	4400.	0.	** 1230.	590.	.67	13.	114.6	F	14.1	6.2
17	2	890.	616.	0.	4736.	616.	0.	3557.	4393.	7.	** 890.	590.	.81	20.	89.1	F	17.8	4.6
18	3	4840.	216.	632.	4952.	216.	557.	3773.	5539.	61.	** 4840.	590.	.68	13.	94.3	F	12.4	6.1
19	2	530.	0.	0.	4320.	0.	0.	3215.	3800.	0.	B* 530.	585.	.85	23.	71.4	F	18.5	4.2
20	2	1040.	688.	0.	5008.	688.	0.	3887.	4367.	33.	** 1040.	479.	.89	26.	74.1	F	19.6	3.6
21	3	2810.	1004.	1076.	6012.	1004.	875.	4891.	4891.	709.	0.	0.	1.00	52.	31.6	E	30.3	2.3
22	2	1850.	0.	0.	4936.	0.	0.	4016.	4400.	0.	0.	0.	.91	57.	35.1	E	18.7	2.9
23	3	2390.	540.	240.	5476.	540.	200.	4556.	5469.	131.	0.	0.	.83	62.	24.5	C	24.1	4.8
24	3	960.	0.	1852.	5236.	0.	1500.	4356.	5547.	53.	0.	0.	.79	62.	23.4	C	17.2	4.8
25	2	1400.	0.	3384.	3384.	0.	2814.	2814.	3600.	0.	0.	0.	.78	62.	22.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 11.	108.0		11.3	6.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	768. VEH-HRS	869. PASS-HRS	4446. VEH-HRS	5033. PASS-HRS
FREEWAY MERGE DELAY =	1. VEH-HRS	1. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	88. VEH-HRS	100. PASS-HRS	251. VEH-HRS	285. PASS-HRS
OFF-RAMP DELAY =	138. VEH-HRS	156. PASS-HRS	1007. VEH-HRS	1140. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	995. VEH-HRS	1126. PASS-HRS	5712. VEH-HRS	6466. PASS-HRS
TOTAL TRAV DISTANCE =	8707. VEH-MI.	9856. PASS-MI.	104994. VEH-MI.	118854. PASS-MI.
AVERAGE SYSTEM SPEED =	9. MPH.		24. MPH.	
AVERAGE DENSITY =	108. VPMPL		60. VPMPL	
TOTAL FUEL =	855. GALLONS		7716. GALLONS	
TOTAL EMISSIONS =	67. KILOGRAMS		568. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP 1	RAMP	347.	88.48	33.51	0.51	3.17	0.55	4.23
	FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL	347.	88.48	33.51	0.51	3.17	0.55	4.23
ON-RAMP 11	RAMP	0.	0.00	0.00	0.00	0.00	0.00	0.00
	FREEWAY	4.	0.54	0.21	0.00	0.02	0.00	0.03
	TOTAL	4.	0.54	0.21	0.00	0.02	0.00	0.03
OFF-RAMP 11	OUTPUT POINT	556.	137.70	52.15	0.80	4.93	0.86	6.59

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3160.	164.	3160.	3160.	164.	2150.	4400.	0.	**12900.	1010.	.49	7.	146.9	F	7.7	8.3
2	2	1970.	0.	0.	2996.	0.	0.	1986.	4100.	0.	** 1970.	1010.	.48	7.	137.6	F	7.7	8.4
3	2	1830.	360.	472.	3356.	360.	472.	2346.	3992.	108.	** 1830.	1010.	.59	10.	117.1	F	9.7	6.9
4	2	2010.	0.	0.	2884.	0.	0.	1874.	4100.	0.	** 2010.	1010.	.46	7.	142.2	F	7.3	8.7
5	3	2445.	1144.	464.	4028.	1144.	464.	3018.	5318.	282.	** 2445.	1010.	.57	9.	106.9	F	9.2	7.2
6	2	1890.	0.	0.	3564.	0.	0.	2554.	4100.	0.	** 1890.	1010.	.62	11.	114.4	F	10.0	6.6
7	3	5320.	740.	696.	4304.	740.	696.	3294.	5600.	0.	** 5320.	1010.	.59	10.	109.5	F	9.7	6.9
8	2	880.	0.	0.	3608.	0.	0.	2598.	3900.	0.	** 880.	1010.	.67	13.	101.9	F	11.1	6.2
9	2	1125.	156.	0.	3764.	156.	0.	2754.	3900.	0.	** 1125.	1010.	.71	14.	95.5	F	15.2	5.9
10	3	6320.	408.	460.	4172.	408.	460.	3162.	5593.	7.	** 6320.	1010.	.57	9.	112.8	F	11.7	7.2
11	2	2050.	0.	0.	3712.	0.	0.	2702.	4100.	0.	** 2050.	1010.	.66	12.	108.3	F	13.9	6.3
12	3	2560.	696.	0.	4408.	696.	0.	3398.	5544.	56.	** 2560.	1010.	.61	11.	104.6	F	11.5	6.7
13	3	1400.	0.	352.	4408.	0.	352.	3398.	5544.	56.	** 1400.	1010.	.61	11.	104.6	F	18.5	6.7
14	2	1320.	0.	0.	4056.	0.	0.	3046.	4400.	0.	** 1320.	1010.	.69	14.	110.3	F	11.5	6.0
15	3	540.	1088.	1512.	5144.	1088.	1420.	4134.	4832.	768.	** 540.	698.	.86	23.	59.3	F	12.0	4.1
16	2	1230.	0.	0.	3632.	0.	0.	2714.	4400.	0.	** 1230.	698.	.62	11.	123.9	F	13.1	6.6
17	2	890.	668.	0.	4300.	668.	0.	3382.	4395.	5.	** 890.	698.	.77	18.	96.3	F	16.6	5.1
18	3	4840.	180.	596.	4480.	180.	567.	3562.	5544.	56.	** 4840.	698.	.64	12.	100.2	F	11.8	6.4
19	2	530.	0.	0.	3884.	0.	0.	2995.	3800.	0.	** 530.	698.	.79	19.	80.4	F	17.1	4.9
20	2	1040.	764.	0.	4648.	764.	0.	3777.	4361.	39.	** 1040.	584.	.87	24.	78.4	F	19.0	3.9
21	3	2810.	1044.	1176.	5692.	1044.	996.	4821.	4821.	779.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4516.	0.	0.	3825.	4400.	0.	0.	0.	.87	59.	32.4	D	18.2	3.4
23	3	2390.	424.	176.	4940.	424.	151.	4249.	5483.	117.	0.	0.	.77	62.	22.8	C	24.1	4.8
24	3	960.	0.	1924.	4764.	0.	1500.	4098.	5558.	42.	0.	0.	.74	62.	22.0	C	17.2	4.8
25	2	1400.	0.	2840.	2840.	0.	2443.	2443.	3600.	0.	0.	0.	.68	62.	19.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 12.	104.8		11.7	6.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	746. VEH-HRS	844. PASS-HRS	5191. VEH-HRS	5877. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	75. VEH-HRS	85. PASS-HRS	326. VEH-HRS	369. PASS-HRS
OFF-RAMP DELAY =	144. VEH-HRS	163. PASS-HRS	1151. VEH-HRS	1303. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	964. VEH-HRS	1092. PASS-HRS	6677. VEH-HRS	7558. PASS-HRS
TOTAL TRAV DISTANCE =	8869. VEH-MI.	10040. PASS-MI.	113863. VEH-MI.	128893. PASS-MI.
AVERAGE SYSTEM SPEED =	9. MPH.		22. MPH.	
AVERAGE DENSITY =	105. VPMPL		64. VPMPL	
TOTAL FUEL =	844. GALLONS		8560. GALLONS	
TOTAL EMISSIONS =	66. KILOGRAMS		634. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	252.	74.93	28.38	0.44	2.68	0.47	3.59
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	252.	74.93	28.38	0.44	2.68	0.47	3.59
OFF-RAMP	11	OUTPUT POINT	595.	143.84	54.48	0.84	5.15	0.90	6.88

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3368.	204.	3368.	3368.	204.	2807.	4400.	0.	**12900.	561.	.64	12.	120.1	F	10.1	6.5
2	2	1970.	0.	0.	3164.	0.	0.	2603.	4100.	0.	** 1970.	561.	.63	12.	112.4	F	10.1	6.5
3	2	1830.	360.	368.	3524.	360.	368.	2963.	4051.	49.	** 1830.	561.	.73	16.	95.1	F	11.3	5.6
4	2	2010.	0.	0.	3156.	0.	0.	2595.	4100.	0.	** 2010.	561.	.63	12.	112.7	F	10.1	6.5
5	3	2445.	912.	388.	4068.	912.	388.	3507.	5405.	195.	** 2445.	561.	.65	12.	96.7	F	10.3	6.4
6	2	1890.	0.	0.	3680.	0.	0.	3119.	4100.	0.	** 1890.	561.	.76	17.	91.3	F	11.5	5.2
7	3	5320.	724.	732.	4404.	724.	732.	3843.	5600.	0.	** 5320.	561.	.69	14.	94.5	F	10.7	6.1
8	2	880.	0.	0.	3672.	0.	0.	3111.	3900.	0.	** 880.	561.	.80	19.	81.0	F	12.6	4.8
9	2	1125.	172.	0.	3844.	172.	0.	3283.	3900.	0.	** 1125.	561.	.84	22.	74.0	F	18.4	4.2
10	3	6320.	412.	444.	4256.	412.	444.	3695.	5593.	7.	** 6320.	561.	.66	13.	98.3	F	14.0	6.3
11	2	2050.	0.	0.	3812.	0.	0.	3251.	4100.	0.	** 2050.	561.	.79	19.	85.9	F	17.3	4.8
12	3	2560.	656.	0.	4468.	656.	0.	3907.	5536.	64.	** 2560.	561.	.71	14.	90.5	F	12.9	5.9
13	3	1400.	0.	432.	4468.	0.	432.	3907.	5536.	64.	** 1400.	561.	.71	14.	90.5	F	23.4	5.9
14	2	1320.	0.	0.	4036.	0.	0.	3475.	4400.	0.	** 1320.	561.	.79	19.	92.8	F	12.5	4.9
15	3	540.	984.	1404.	5020.	984.	1368.	4459.	4892.	708.	** 540.	433.	.91	28.	52.6	F	12.9	3.4
16	2	1230.	0.	0.	3616.	0.	0.	3091.	4400.	0.	** 1230.	433.	.70	14.	108.5	F	15.1	5.9
17	2	890.	592.	0.	4208.	592.	0.	3683.	4396.	4.	** 890.	433.	.84	22.	84.1	F	18.3	4.3
18	3	4840.	192.	736.	4400.	192.	721.	3875.	5537.	63.	** 4840.	433.	.70	14.	91.4	F	12.7	5.9
19	2	530.	0.	0.	3664.	0.	0.	3154.	3800.	0.	** 530.	433.	.83	21.	73.9	F	18.2	4.4
20	2	1040.	748.	0.	4412.	748.	0.	3902.	4362.	38.	** 1040.	433.	.89	27.	73.3	F	19.7	3.6
21	3	2810.	976.	1192.	5388.	976.	1079.	4878.	4878.	722.	0.	0.	1.00	52.	31.5	E	30.3	2.3
22	2	1850.	0.	0.	4196.	0.	0.	3799.	4400.	0.	0.	0.	.86	59.	32.0	D	18.2	3.4
23	3	2390.	312.	192.	4508.	312.	175.	4111.	5519.	81.	0.	0.	.74	62.	22.1	C	24.1	4.8
24	3	960.	0.	1728.	4316.	0.	1500.	3936.	5572.	28.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2588.	2588.	0.	2360.	2360.	3600.	0.	0.	0.	.66	62.	19.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 16.	88.9	13.3	5.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	638. VEH-HRS	722. PASS-HRS	5829. VEH-HRS	6598. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	49. VEH-HRS	56. PASS-HRS	375. VEH-HRS	425. PASS-HRS
OFF-RAMP DELAY =	151. VEH-HRS	171. PASS-HRS	1302. VEH-HRS	1474. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	838. VEH-HRS	948. PASS-HRS	7515. VEH-HRS	8507. PASS-HRS
TOTAL TRAV DISTANCE =	10181. VEH-MI.	11524. PASS-MI.	124044. VEH-MI.	140418. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		21. MPH.	
AVERAGE DENSITY =	89. VPMPL		66. VPMPL	
TOTAL FUEL =	843. GALLONS		9403. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		699. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	140.	49.08	18.59	0.29	1.76	0.31	2.35
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	140.	49.08	18.59	0.29	1.76	0.31	2.35
OFF-RAMP	11	OUTPUT POINT	614.	151.05	57.21	0.88	5.40	0.94	7.23

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3544.	168.	3544.	3544.	168.	2656.	4400.	0.	**12900.	888.	.60	11.	126.2	F	9.8	6.7
2	2	1970.	0.	0.	3376.	0.	0.	2488.	4100.	0.	** 1970.	888.	.61	11.	117.1	F	9.9	6.7
3	2	1830.	304.	152.	3680.	304.	152.	2792.	4100.	0.	** 1830.	888.	.68	13.	104.7	F	10.6	6.1
4	2	2010.	0.	0.	3528.	0.	0.	2640.	4100.	0.	** 2010.	888.	.64	12.	110.9	F	10.2	6.4
5	3	2445.	688.	380.	4216.	688.	380.	3328.	5472.	128.	** 2445.	888.	.61	11.	104.0	F	9.9	6.7
6	2	1890.	0.	0.	3836.	0.	0.	2948.	4100.	0.	** 1890.	888.	.72	15.	98.3	F	11.2	5.7
7	3	5320.	832.	776.	4668.	832.	776.	3780.	5600.	0.	** 5320.	888.	.67	13.	96.2	F	10.6	6.2
8	2	880.	0.	0.	3892.	0.	0.	3004.	3900.	0.	** 880.	888.	.77	18.	85.4	F	12.3	5.1
9	2	1125.	192.	0.	4084.	192.	0.	3196.	3900.	0.	** 1125.	704.	.82	21.	77.5	F	17.9	4.5
10	3	6320.	428.	376.	4512.	428.	361.	3624.	5591.	9.	** 6320.	704.	.65	12.	100.2	F	13.7	6.4
11	2	2050.	0.	0.	4136.	0.	0.	3263.	4100.	0.	** 2050.	704.	.80	19.	85.4	F	17.3	4.8
12	3	2560.	728.	0.	4864.	728.	0.	3991.	5532.	68.	** 2560.	704.	.72	15.	88.1	F	13.2	5.7
13	3	1400.	0.	456.	4864.	0.	440.	3991.	5532.	68.	** 1400.	704.	.72	15.	88.1	F	24.6	5.7
14	2	1320.	0.	0.	4408.	0.	0.	3551.	4400.	0.	** 1320.	704.	.81	20.	89.7	F	12.7	4.6
15	3	540.	860.	1304.	5268.	860.	1226.	4411.	4952.	648.	** 540.	541.	.89	26.	56.0	F	12.6	3.6
16	2	1230.	0.	0.	3964.	0.	0.	3185.	4400.	0.	** 1230.	541.	.72	15.	104.6	F	15.7	5.7
17	2	890.	520.	0.	4484.	520.	0.	3705.	4395.	5.	** 890.	541.	.84	22.	83.1	F	18.4	4.2
18	3	4840.	192.	688.	4676.	192.	653.	3897.	5545.	55.	** 4840.	541.	.70	14.	91.1	F	12.8	5.9
19	2	530.	0.	0.	3988.	0.	0.	3244.	3800.	0.	** 530.	541.	.85	23.	70.2	F	18.7	4.1
20	2	1040.	652.	0.	4640.	652.	0.	3896.	4365.	35.	** 1040.	468.	.89	26.	73.7	F	19.7	3.6
21	3	2810.	984.	1236.	5624.	984.	1073.	4880.	4880.	720.	0.	0.	1.00	52.	31.6	E	30.3	2.3
22	2	1850.	0.	0.	4388.	0.	0.	3808.	4400.	0.	0.	0.	.87	59.	32.1	D	18.2	3.4
23	3	2390.	276.	148.	4664.	276.	129.	4084.	5524.	76.	0.	0.	.74	62.	22.0	C	24.1	4.8
24	3	960.	0.	1872.	4516.	0.	1500.	3954.	5573.	27.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	2644.	2644.	0.	2315.	2315.	3600.	0.	0.	0.	.64	62.	18.7	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 15.		91.2	13.2	5.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	652. VEH-HRS	738. PASS-HRS	6481. VEH-HRS	7337. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	45. VEH-HRS	51. PASS-HRS	421. VEH-HRS	476. PASS-HRS
OFF-RAMP DELAY =	158. VEH-HRS	179. PASS-HRS	1460. VEH-HRS	1653. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	855. VEH-HRS	968. PASS-HRS	8370. VEH-HRS	9475. PASS-HRS
TOTAL TRAV DISTANCE =	10015. VEH-MI.	11337. PASS-MI.	134059. VEH-MI.	151754. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		21. MPH.	
AVERAGE DENSITY =	91. VPMPL		68. VPMPL	
TOTAL FUEL =	838. GALLONS		10241. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		765. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	222.	45.28	17.15	0.26	1.62	0.28	2.17
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	222.	45.28	17.15	0.26	1.62	0.28	2.17
OFF-RAMP	11	OUTPUT POINT	649.	157.78	59.76	0.92	5.65	0.99	7.55

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3384.	180.	3384.	3384.	180.	2365.	4400.	0.	**12900.	1019.	.54	9.	138.1	F	8.5	7.7
2	2	1970.	0.	0.	3204.	0.	0.	2185.	4100.	0.	** 1970.	1019.	.53	8.	129.5	F	8.4	7.7
3	2	1830.	304.	160.	3508.	304.	160.	2489.	4100.	0.	** 1830.	1019.	.61	11.	117.1	F	9.9	6.7
4	2	2010.	0.	0.	3348.	0.	0.	2329.	4100.	0.	** 2010.	1019.	.57	9.	123.6	F	9.2	7.2
5	3	2445.	668.	328.	4016.	668.	328.	2997.	5532.	68.	** 2445.	1019.	.54	9.	115.1	F	8.6	7.6
6	2	1890.	0.	0.	3688.	0.	0.	2669.	4100.	0.	** 1890.	1019.	.65	12.	109.7	F	10.3	6.4
7	3	5320.	772.	788.	4460.	772.	788.	3441.	5600.	0.	** 5320.	1019.	.61	11.	105.5	F	9.9	6.7
8	2	880.	0.	0.	3672.	0.	0.	2653.	3900.	0.	** 880.	1019.	.68	13.	99.7	F	11.3	6.1
9	2	1125.	216.	0.	3888.	216.	0.	2869.	3900.	0.	** 1125.	1019.	.74	16.	90.9	F	15.9	5.5
10	3	6320.	520.	300.	4408.	520.	300.	3389.	5592.	8.	** 6320.	1019.	.61	11.	106.6	F	12.9	6.7
11	2	2050.	0.	0.	4108.	0.	0.	3089.	4100.	0.	** 2050.	1011.	.75	17.	92.6	F	16.3	5.3
12	3	2560.	696.	0.	4804.	696.	0.	3785.	5544.	56.	** 2560.	1011.	.68	13.	94.1	F	12.4	6.1
13	3	1400.	0.	392.	4804.	0.	391.	3785.	5544.	56.	** 1400.	1011.	.68	13.	94.1	F	21.9	6.1
14	2	1320.	0.	0.	4412.	0.	0.	3393.	4400.	0.	** 1320.	1007.	.77	18.	96.1	F	12.3	5.1
15	3	540.	880.	1400.	5292.	880.	1310.	4273.	4952.	648.	** 540.	679.	.86	24.	59.7	F	12.1	4.0
16	2	1230.	0.	0.	3892.	0.	0.	2963.	4400.	0.	** 1230.	679.	.67	13.	113.7	F	14.3	6.2
17	2	890.	532.	0.	4424.	532.	0.	3495.	4395.	5.	** 890.	679.	.80	19.	91.7	F	17.3	4.8
18	3	4840.	196.	592.	4620.	196.	560.	3691.	5551.	49.	** 4840.	679.	.66	13.	96.9	F	12.1	6.2
19	2	530.	0.	0.	4028.	0.	0.	3131.	3800.	0.	** 530.	669.	.82	21.	74.8	F	18.0	4.4
20	2	1040.	660.	0.	4688.	660.	0.	3791.	4364.	36.	** 1040.	573.	.87	24.	77.9	F	19.1	3.9
21	3	2810.	1024.	1272.	5712.	1024.	1072.	4815.	4815.	785.	0.	0.	1.00	52.	31.1	E	30.3	2.3
22	2	1850.	0.	0.	4440.	0.	0.	3743.	4400.	0.	0.	0.	.85	60.	31.3	D	18.1	3.6
23	3	2390.	312.	188.	4752.	312.	160.	4055.	5517.	83.	0.	0.	.73	62.	21.8	C	24.1	4.8
24	3	960.	0.	1748.	4564.	0.	1500.	3895.	5570.	30.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	2816.	2816.	0.	2403.	2403.	3600.	0.	0.	0.	.67	62.	19.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 13.	99.1		12.2	6.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	707. VEH-HRS	800. PASS-HRS	7188. VEH-HRS	8137. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	60. VEH-HRS	67. PASS-HRS	480. VEH-HRS	544. PASS-HRS
OFF-RAMP DELAY =	162. VEH-HRS	183. PASS-HRS	1622. VEH-HRS	1836. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	929. VEH-HRS	1051. PASS-HRS	9299. VEH-HRS	10526. PASS-HRS
TOTAL TRAV DISTANCE =	9341. VEH-MI.	10574. PASS-MI.	143399. VEH-MI.	162328. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		20. MPH.	
AVERAGE DENSITY =	99. VPMPL		70. VPMPL	
TOTAL FUEL =	847. GALLONS		11088. GALLONS	
TOTAL EMISSIONS =	67. KILOGRAMS		831. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	255.	59.61	22.58	0.35	2.13	0.37	2.85
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	255.	59.61	22.58	0.35	2.13	0.37	2.85
OFF-RAMP	11	OUTPUT POINT	646.	161.88	61.31	0.94	5.79	1.01	7.75

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	3200.	188.	3200.	3200.	188.	2457.	4400.	0.	**12900.	743.	.56	9.	134.4	F	9.0	7.3
2	2	1970.	0.	0.	3012.	0.	0.	2269.	4100.	0.	** 1970.	743.	.55	9.	126.1	F	8.8	7.4
3	2	1830.	356.	176.	3368.	356.	176.	2625.	4100.	0.	** 1830.	743.	.64	12.	111.5	F	10.2	6.5
4	2	2010.	0.	0.	3192.	0.	0.	2449.	4100.	0.	** 2010.	743.	.60	10.	118.7	F	9.8	6.8
5	3	2445.	692.	516.	3884.	692.	516.	3141.	5388.	212.	** 2445.	743.	.58	10.	106.1	F	9.6	6.9
6	2	1890.	0.	0.	3368.	0.	0.	2625.	4100.	0.	** 1890.	743.	.64	12.	111.5	F	10.2	6.5
7	3	5320.	768.	616.	4136.	768.	616.	3393.	5600.	0.	** 5320.	743.	.61	11.	106.8	F	9.9	6.7
8	2	880.	0.	0.	3520.	0.	0.	2777.	3900.	0.	** 880.	743.	.71	15.	94.6	F	11.8	5.8
9	2	1125.	232.	0.	3752.	232.	0.	3009.	3900.	0.	** 1125.	743.	.77	18.	85.2	F	16.7	5.1
10	3	6320.	576.	276.	4328.	576.	276.	3585.	5593.	7.	** 6320.	743.	.64	12.	101.3	F	13.5	6.5
11	2	2050.	0.	0.	4052.	0.	0.	3309.	4100.	0.	** 2050.	743.	.81	20.	83.6	F	17.7	4.6
12	3	2560.	620.	0.	4672.	620.	0.	3929.	5536.	64.	** 2560.	743.	.71	15.	89.9	F	13.0	5.8
13	3	1400.	0.	472.	4672.	0.	472.	3929.	5536.	64.	** 1400.	743.	.71	15.	89.9	F	23.7	5.8
14	2	1320.	0.	0.	4200.	0.	0.	3457.	4400.	0.	** 1320.	743.	.79	18.	93.5	F	12.5	4.9
15	3	540.	912.	1480.	5112.	912.	1434.	4369.	4952.	648.	** 540.	583.	.88	25.	57.2	F	12.4	3.7
16	2	1230.	0.	0.	3632.	0.	0.	2935.	4400.	0.	** 1230.	583.	.67	13.	114.8	F	14.1	6.2
17	2	890.	588.	0.	4220.	588.	0.	3523.	4396.	4.	** 890.	583.	.80	19.	90.6	F	17.5	4.7
18	3	4840.	252.	692.	4472.	252.	674.	3775.	5542.	58.	** 4840.	583.	.68	13.	94.3	F	12.4	6.1
19	2	530.	0.	0.	3780.	0.	0.	3101.	3800.	0.	** 530.	583.	.82	20.	76.1	F	17.9	4.5
20	2	1040.	688.	0.	4468.	688.	0.	3789.	4361.	39.	** 1040.	573.	.87	24.	77.9	F	19.1	3.9
21	3	2810.	1032.	1348.	5500.	1032.	1181.	4821.	4821.	779.	0.	0.	1.00	52.	31.2	E	30.3	2.3
22	2	1850.	0.	0.	4152.	0.	0.	3639.	4400.	0.	0.	0.	.83	60.	30.1	D	17.8	3.9
23	3	2390.	280.	184.	4432.	280.	163.	3919.	5531.	69.	0.	0.	.71	62.	21.1	C	24.1	4.8
24	3	960.	0.	1704.	4248.	0.	1500.	3757.	5575.	25.	0.	0.	.67	62.	20.2	C	17.2	4.8
25	2	1400.	0.	2544.	2544.	0.	2250.	2250.	3600.	0.	0.	0.	.62	62.	18.1	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 14.	96.0		12.6	5.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	685. VEH-HRS	776. PASS-HRS	7874. VEH-HRS	8913. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	55. VEH-HRS	62. PASS-HRS	535. VEH-HRS	606. PASS-HRS
OFF-RAMP DELAY =	162. VEH-HRS	183. PASS-HRS	1784. VEH-HRS	2019. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	902. VEH-HRS	1021. PASS-HRS	10201. VEH-HRS	11547. PASS-HRS
TOTAL TRAV DISTANCE =	9532. VEH-MI.	10790. PASS-MI.	152931. VEH-MI.	173118. PASS-MI.
AVERAGE SYSTEM SPEED =	11. MPH.		19. MPH.	
AVERAGE DENSITY =	96. VPMPL		72. VPMPL	
TOTAL FUEL =	838. GALLONS		11926. GALLONS	
TOTAL EMISSIONS =	66. KILOGRAMS		897. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	186.	55.08	20.86	0.32	1.97	0.34	2.64
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	186.	55.08	20.86	0.32	1.97	0.34	2.64
OFF-RAMP	11	OUTPUT POINT	648.	161.84	61.30	0.94	5.79	1.01	7.74

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2720.	120.	2720.	2720.	120.	2755.	4400.	0.	**12900.	-35.	.63	11.	122.2	F	10.0	6.6
2	2	1970.	0.	0.	2600.	0.	0.	2635.	4100.	0.	** 1970.	-35.	.64	12.	111.1	F	10.2	6.4
3	2	1830.	308.	188.	2908.	308.	188.	2943.	4100.	0.	** 1830.	-35.	.72	15.	98.5	F	11.2	5.7
4	2	2010.	0.	0.	2720.	0.	0.	2755.	4100.	0.	** 2010.	-35.	.67	13.	106.2	F	10.5	6.2
5	3	2445.	568.	572.	3288.	568.	572.	3323.	5436.	164.	** 2445.	-35.	.61	11.	102.9	F	9.9	6.7
6	2	1890.	0.	0.	2716.	0.	0.	2751.	4100.	0.	** 1890.	-35.	.67	13.	106.4	F	10.5	6.2
7	3	5320.	700.	560.	3416.	700.	560.	3451.	5600.	0.	** 5320.	-35.	.62	11.	105.2	F	9.9	6.6
8	2	880.	0.	0.	2856.	0.	0.	2891.	3900.	0.	** 880.	-35.	.74	16.	90.0	F	12.1	5.5
9	2	1125.	200.	0.	3056.	200.	0.	3091.	3900.	0.	** 1125.	-35.	.79	19.	81.8	F	17.2	4.8
10	3	6320.	508.	272.	3564.	508.	272.	3599.	5597.	3.	** 6320.	-35.	.64	12.	101.1	F	13.6	6.4
11	2	2050.	0.	0.	3292.	0.	0.	3327.	4100.	0.	** 2050.	-35.	.81	20.	82.8	F	17.8	4.6
12	3	2560.	620.	0.	3912.	620.	0.	3947.	5535.	65.	** 2560.	-35.	.71	15.	89.4	F	13.0	5.8
13	3	1400.	0.	432.	3912.	0.	432.	3947.	5535.	65.	** 1400.	-35.	.71	15.	89.4	F	24.0	5.8
14	2	1320.	0.	0.	3480.	0.	0.	3515.	4400.	0.	** 1320.	-35.	.80	19.	91.2	F	12.6	4.7
15	3	540.	956.	1356.	4436.	956.	1356.	4471.	4936.	664.	** 540.	-35.	.91	28.	53.8	F	12.8	3.5
16	2	1230.	0.	0.	3080.	0.	0.	3115.	4400.	0.	** 1230.	-35.	.71	14.	107.5	F	15.2	5.8
17	2	890.	684.	0.	3764.	684.	0.	3799.	4400.	0.	** 890.	-35.	.86	24.	79.6	F	18.9	4.0
18	3	4840.	288.	728.	4052.	288.	728.	4087.	5542.	58.	** 4840.	-35.	.74	16.	85.8	F	13.3	5.5
19	2	530.	0.	0.	3324.	0.	0.	3359.	3800.	0.	** 530.	-35.	.88	26.	65.5	F	19.5	3.7
20	2	1040.	604.	0.	3928.	604.	0.	3963.	4371.	29.	** 1040.	-35.	.91	28.	71.3	F	20.0	3.5
21	3	2810.	988.	1240.	4916.	988.	1249.	4951.	4951.	649.	0.	0.	1.00	52.	32.0	E	30.3	2.3
22	2	1850.	0.	0.	3676.	0.	0.	3702.	4400.	0.	0.	0.	.84	60.	30.8	D	18.0	3.6
23	3	2390.	308.	172.	3984.	308.	173.	4010.	5532.	68.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	1552.	3812.	0.	1500.	3837.	5578.	22.	0.	0.	.69	62.	20.6	C	17.2	4.8
25	2	1400.	0.	2260.	2260.	0.	2275.	2275.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 15. 90.5 13.2 5.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	650. VEH-HRS	735. PASS-HRS	8523. VEH-HRS	9648. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	23. VEH-HRS	26. PASS-HRS	559. VEH-HRS	632. PASS-HRS
OFF-RAMP DELAY =	164. VEH-HRS	186. PASS-HRS	1948. VEH-HRS	2205. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	837. VEH-HRS	947. PASS-HRS	11038. VEH-HRS	12495. PASS-HRS
TOTAL TRAV DISTANCE =	10024. VEH-MI.	11347. PASS-MI.	162955. VEH-MI.	184465. PASS-MI.
AVERAGE SYSTEM SPEED =	12. MPH.		19. MPH.	
AVERAGE DENSITY =	90. VPMPL		73. VPMPL	
TOTAL FUEL =	832. GALLONS		12758. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		962. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	0.	23.23	8.80	0.14	0.83	0.15	1.11
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	23.23	8.80	0.14	0.83	0.15	1.11
OFF-RAMP	11	OUTPUT POINT	664.	163.99	62.11	0.95	5.87	1.02	7.85

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2608.	88.	2608.	2608.	88.	2445.	4400.	0.	**12900.	163.	.56	9.	134.9	F	8.9	7.4
2	2	1970.	0.	0.	2520.	0.	0.	2357.	4100.	0.	** 1970.	163.	.57	10.	122.5	F	9.4	7.1
3	2	1830.	324.	212.	2844.	324.	212.	2681.	4100.	0.	** 1830.	163.	.65	12.	109.2	F	10.3	6.3
4	2	2010.	0.	0.	2632.	0.	0.	2469.	4100.	0.	** 2010.	163.	.60	10.	117.9	F	9.8	6.8
5	3	2445.	456.	424.	3088.	456.	424.	2925.	5600.	0.	** 2445.	163.	.52	8.	119.5	F	8.2	7.9
6	2	1890.	0.	0.	2664.	0.	0.	2501.	4100.	0.	** 1890.	163.	.61	11.	116.6	F	9.9	6.7
7	3	5320.	740.	516.	3404.	740.	516.	3241.	5600.	0.	** 5320.	163.	.58	10.	110.9	F	9.5	7.0
8	2	880.	0.	0.	2888.	0.	0.	2725.	3900.	0.	** 880.	163.	.70	14.	96.8	F	11.6	5.9
9	2	1125.	200.	0.	3088.	200.	0.	2925.	3900.	0.	** 1125.	163.	.75	17.	88.6	F	16.2	5.4
10	3	6320.	552.	320.	3640.	552.	320.	3477.	5597.	3.	** 6320.	163.	.62	11.	104.4	F	13.1	6.6
11	2	2050.	0.	0.	3320.	0.	0.	3157.	4100.	0.	** 2050.	163.	.77	18.	89.8	F	16.7	5.1
12	3	2560.	592.	0.	3912.	592.	0.	3749.	5536.	64.	** 2560.	163.	.68	13.	94.8	F	12.3	6.1
13	3	1400.	0.	420.	3912.	0.	420.	3749.	5536.	64.	** 1400.	163.	.68	13.	94.8	F	21.6	6.1
14	2	1320.	0.	0.	3492.	0.	0.	3329.	4400.	0.	** 1320.	163.	.76	17.	98.8	F	12.2	5.3
15	3	540.	932.	1208.	4424.	932.	1208.	4261.	4924.	676.	** 540.	163.	.87	24.	59.1	F	12.2	3.9
16	2	1230.	0.	0.	3216.	0.	0.	3053.	4400.	0.	** 1230.	163.	.69	14.	110.0	F	14.8	6.0
17	2	890.	700.	0.	3916.	700.	0.	3753.	4398.	2.	** 890.	163.	.85	23.	81.4	F	18.7	4.1
18	3	4840.	256.	664.	4172.	256.	664.	4009.	5543.	57.	** 4840.	163.	.72	15.	88.0	F	13.2	5.7
19	2	530.	0.	0.	3508.	0.	0.	3345.	3800.	0.	** 530.	163.	.88	25.	66.1	F	19.4	3.7
20	2	1040.	712.	0.	4220.	712.	0.	4057.	4364.	36.	** 1040.	163.	.93	30.	67.1	F	20.7	3.2
21	3	2810.	908.	1216.	5128.	908.	1177.	4965.	4965.	635.	0.	0.	1.00	52.	32.1	E	30.3	2.3
22	2	1850.	0.	0.	3912.	0.	0.	3787.	4400.	0.	0.	0.	.86	59.	31.9	D	18.1	3.5
23	3	2390.	276.	124.	4188.	276.	120.	4063.	5532.	68.	0.	0.	.73	62.	21.8	C	24.1	4.8
24	3	960.	0.	1820.	4064.	0.	1500.	3943.	5578.	22.	0.	0.	.71	62.	21.2	C	17.2	4.8
25	2	1400.	0.	2244.	2244.	0.	2177.	2177.	3600.	0.	0.	0.	.60	62.	17.6	B	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 14.		97.2	12.5	5.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	695. VEH-HRS	787. PASS-HRS	9218. VEH-HRS	10435. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	4. VEH-HRS	5. PASS-HRS	563. VEH-HRS	637. PASS-HRS
OFF-RAMP DELAY =	174. VEH-HRS	197. PASS-HRS	2122. VEH-HRS	2402. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	873. VEH-HRS	989. PASS-HRS	11911. VEH-HRS	13483. PASS-HRS
TOTAL TRAV DISTANCE =	9508. VEH-MI.	10763. PASS-MI.	172463. VEH-MI.	195229. PASS-MI.
AVERAGE SYSTEM SPEED =	11. MPH.		19. MPH.	
AVERAGE DENSITY =	97. VPMPL		75. VPMPL	
TOTAL FUEL =	828. GALLONS		13586. GALLONS	
TOTAL EMISSIONS =	64. KILOGRAMS		1026. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	41.	4.02	1.52	0.02	0.14	0.03	0.19
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	41.	4.02	1.52	0.02	0.14	0.03	0.19
OFF-RAMP	11	OUTPUT POINT	730.	174.24	65.99	1.01	6.23	1.09	8.34

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2360.	96.	2360.	2360.	96.	2251.	4400.	0.	**12900.	109.	.51	8.	142.8	F	8.1	8.0
2	2	1970.	0.	0.	2264.	0.	0.	2155.	4100.	0.	** 1970.	109.	.53	8.	130.7	F	8.3	7.8
3	2	1830.	344.	84.	2608.	344.	84.	2499.	4100.	0.	** 1830.	109.	.61	11.	116.7	F	9.9	6.7
4	2	2010.	0.	0.	2524.	0.	0.	2415.	4100.	0.	** 2010.	109.	.59	10.	120.1	F	9.7	6.8
5	3	2445.	636.	392.	3160.	636.	392.	3051.	5522.	78.	** 2445.	109.	.55	9.	113.3	F	8.8	7.4
6	2	1890.	0.	0.	2768.	0.	0.	2659.	4100.	0.	** 1890.	109.	.65	12.	110.1	F	10.3	6.4
7	3	5320.	676.	636.	3444.	676.	636.	3335.	5600.	0.	** 5320.	109.	.60	10.	108.4	F	9.8	6.8
8	2	880.	0.	0.	2808.	0.	0.	2699.	3900.	0.	** 880.	109.	.69	14.	97.8	F	11.5	6.0
9	2	1125.	188.	0.	2996.	188.	0.	2887.	3900.	0.	** 1125.	109.	.74	16.	90.1	F	16.0	5.5
10	3	6320.	604.	312.	3600.	604.	312.	3491.	5597.	3.	** 6320.	109.	.62	11.	104.0	F	13.2	6.6
11	2	2050.	0.	0.	3288.	0.	0.	3179.	4100.	0.	** 2050.	109.	.78	18.	88.9	F	16.8	5.1
12	3	2560.	616.	0.	3904.	616.	0.	3795.	5535.	65.	** 2560.	109.	.69	14.	93.5	F	12.5	6.1
13	3	1400.	0.	428.	3904.	0.	428.	3795.	5535.	65.	** 1400.	109.	.69	14.	93.5	F	22.1	6.1
14	2	1320.	0.	0.	3476.	0.	0.	3367.	4400.	0.	** 1320.	109.	.77	17.	97.2	F	12.3	5.2
15	3	540.	844.	1084.	4320.	844.	1084.	4211.	4968.	632.	** 540.	109.	.85	23.	62.0	F	11.9	4.2
16	2	1230.	0.	0.	3236.	0.	0.	3127.	4400.	0.	** 1230.	109.	.71	15.	107.0	F	15.3	5.8
17	2	890.	692.	0.	3928.	692.	0.	3819.	4398.	2.	** 890.	109.	.87	24.	78.7	F	19.1	3.9
18	3	4840.	248.	688.	4176.	248.	688.	4067.	5541.	59.	** 4840.	109.	.73	16.	86.3	F	13.3	5.6
19	2	530.	0.	0.	3488.	0.	0.	3379.	3800.	0.	** 530.	109.	.89	26.	64.7	F	19.6	3.7
20	2	1040.	684.	0.	4172.	684.	0.	4063.	4367.	33.	** 1040.	109.	.93	30.	67.0	F	20.7	3.2
21	3	2810.	928.	1144.	5100.	928.	1119.	4991.	4991.	609.	0.	0.	1.00	52.	32.3	E	30.3	2.3
22	2	1850.	0.	0.	3956.	0.	0.	3871.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	292.	116.	4248.	292.	114.	4163.	5525.	75.	0.	0.	.75	62.	22.4	C	24.1	4.8
24	3	960.	0.	1792.	4132.	0.	1500.	4049.	5575.	25.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2340.	2340.	0.	2293.	2293.	3600.	0.	0.	0.	.64	62.	18.5	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 14.	98.4		12.4	5.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	701. VEH-HRS	793. PASS-HRS	9919. VEH-HRS	11229. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	9. VEH-HRS	10. PASS-HRS	571. VEH-HRS	646. PASS-HRS
OFF-RAMP DELAY =	191. VEH-HRS	216. PASS-HRS	2312. VEH-HRS	2618. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	900. VEH-HRS	1019. PASS-HRS	12811. VEH-HRS	14502. PASS-HRS
TOTAL TRAV DISTANCE =	9472. VEH-MI.	10722. PASS-MI.	181935. VEH-MI.	205951. PASS-MI.
AVERAGE SYSTEM SPEED =	11. MPH.		18. MPH.	
AVERAGE DENSITY =	98. VPMPL		76. VPMPL	
TOTAL FUEL =	839. GALLONS		14425. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1091. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	27.	8.53	3.23	0.05	0.31	0.05	0.41
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	27.	8.53	3.23	0.05	0.31	0.05	0.41
OFF-RAMP	11	OUTPUT POINT	794.	190.55	72.17	1.11	6.82	1.19	9.12

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2452.	116.	2452.	2452.	116.	2331.	4400.	0.	**12900.	121.	.53	8.	139.5	F	8.4	7.8
2	2	1970.	0.	0.	2336.	0.	0.	2215.	4100.	0.	** 1970.	121.	.54	9.	128.3	F	8.6	7.6
3	2	1830.	408.	112.	2744.	408.	112.	2623.	4100.	0.	** 1830.	121.	.64	12.	111.6	F	10.2	6.5
4	2	2010.	0.	0.	2632.	0.	0.	2511.	4100.	0.	** 2010.	121.	.61	11.	116.2	F	9.9	6.7
5	3	2445.	528.	360.	3160.	528.	360.	3039.	5585.	15.	** 2445.	121.	.54	9.	115.9	F	8.6	7.6
6	2	1890.	0.	0.	2800.	0.	0.	2679.	4100.	0.	** 1890.	121.	.65	12.	109.3	F	10.3	6.3
7	3	5320.	772.	704.	3572.	772.	704.	3451.	5600.	0.	** 5320.	121.	.62	11.	105.2	F	9.9	6.6
8	2	880.	0.	0.	2868.	0.	0.	2747.	3900.	0.	** 880.	121.	.70	14.	95.9	F	11.7	5.9
9	2	1125.	204.	0.	3072.	204.	0.	2951.	3900.	0.	** 1125.	121.	.76	17.	87.5	F	16.4	5.3
10	3	6320.	512.	344.	3584.	512.	344.	3463.	5597.	3.	** 6320.	121.	.62	11.	104.7	F	13.1	6.6
11	2	2050.	0.	0.	3240.	0.	0.	3119.	4100.	0.	** 2050.	121.	.76	17.	91.3	F	16.4	5.2
12	3	2560.	788.	0.	4028.	788.	0.	3907.	5520.	80.	** 2560.	121.	.71	14.	89.9	F	12.9	5.8
13	3	1400.	0.	428.	4028.	0.	428.	3907.	5520.	80.	** 1400.	121.	.71	14.	89.9	F	23.6	5.8
14	2	1320.	0.	0.	3600.	0.	0.	3479.	4400.	0.	** 1320.	121.	.79	19.	92.6	F	12.5	4.9
15	3	540.	816.	1304.	4416.	816.	1304.	4295.	5024.	576.	** 540.	121.	.85	23.	61.7	F	12.0	4.1
16	2	1230.	0.	0.	3112.	0.	0.	2991.	4400.	0.	** 1230.	121.	.68	13.	112.6	F	14.4	6.1
17	2	890.	692.	0.	3804.	692.	0.	3683.	4400.	0.	** 890.	121.	.84	22.	84.3	F	18.3	4.3
18	3	4840.	272.	732.	4076.	272.	732.	3955.	5542.	58.	** 4840.	121.	.71	15.	89.4	F	13.0	5.8
19	2	530.	0.	0.	3344.	0.	0.	3223.	3800.	0.	** 530.	121.	.85	23.	71.1	F	18.6	4.2
20	2	1040.	660.	0.	4004.	660.	0.	3883.	4368.	32.	** 1040.	121.	.89	26.	74.4	F	19.6	3.7
21	3	2810.	1004.	1228.	5008.	1004.	1198.	4887.	4887.	713.	0.	0.	1.00	52.	31.6	E	30.3	2.3
22	2	1850.	0.	0.	3780.	0.	0.	3689.	4400.	0.	0.	0.	.84	60.	30.7	D	17.9	3.7
23	3	2390.	264.	168.	4044.	264.	164.	3953.	5539.	61.	0.	0.	.71	62.	21.3	C	24.1	4.8
24	3	960.	0.	1552.	3876.	0.	1500.	3788.	5580.	20.	0.	0.	.68	62.	20.4	C	17.2	4.8
25	2	1400.	0.	2324.	2324.	0.	2271.	2271.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 14.		97.4	12.4	5.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	694. VEH-HRS	786. PASS-HRS	10613. VEH-HRS	12014. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	7. VEH-HRS	8. PASS-HRS	578. VEH-HRS	655. PASS-HRS
OFF-RAMP DELAY =	199. VEH-HRS	225. PASS-HRS	2512. VEH-HRS	2843. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	900. VEH-HRS	1019. PASS-HRS	13711. VEH-HRS	15521. PASS-HRS
TOTAL TRAV DISTANCE =	9479. VEH-MI.	10730. PASS-MI.	191414. VEH-MI.	216681. PASS-MI.
AVERAGE SYSTEM SPEED =	11. MPH.		18. MPH.	
AVERAGE DENSITY =	97. VPMPL		77. VPMPL	
TOTAL FUEL =	841. GALLONS		15266. GALLONS	
TOTAL EMISSIONS =	66. KILOGRAMS		1157. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	30.	7.20	2.73	0.04	0.26	0.04	0.34
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	30.	7.20	2.73	0.04	0.26	0.04	0.34
OFF-RAMP	11	OUTPUT POINT	798.	199.09	75.41	1.16	7.12	1.24	9.53

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	1916.	96.	1916.	1916.	96.	1998.	4400.	0.	* 12543.	-82.	.45	7.	151.5	F	7.3	8.7
2	2	1970.	0.	0.	1820.	0.	0.	1902.	4100.	0.	** 1970.	-82.	.46	7.	141.1	F	7.4	8.7
3	2	1830.	372.	92.	2192.	372.	92.	2274.	4100.	0.	** 1830.	-82.	.55	9.	125.9	F	8.9	7.4
4	2	2010.	0.	0.	2100.	0.	0.	2182.	4100.	0.	** 2010.	-82.	.53	8.	129.6	F	8.4	7.7
5	3	2445.	532.	352.	2632.	532.	352.	2714.	5600.	0.	** 2445.	-82.	.48	7.	125.3	F	7.7	8.4
6	2	1890.	0.	0.	2280.	0.	0.	2362.	4100.	0.	** 1890.	-82.	.58	10.	122.3	F	9.4	7.1
7	3	5320.	816.	572.	3096.	816.	572.	3178.	5600.	0.	** 5320.	-82.	.57	9.	112.6	F	9.2	7.2
8	2	880.	0.	0.	2524.	0.	0.	2606.	3900.	0.	** 880.	-82.	.67	13.	101.6	F	11.1	6.2
9	2	1125.	236.	0.	2760.	236.	0.	2842.	3900.	0.	** 1125.	-82.	.73	15.	92.0	F	15.8	5.6
10	3	6320.	624.	328.	3384.	624.	328.	3466.	5600.	0.	** 6320.	-82.	.62	11.	104.8	F	13.1	6.6
11	2	2050.	0.	0.	3056.	0.	0.	3138.	4100.	0.	** 2050.	-82.	.77	17.	90.6	F	16.5	5.2
12	3	2560.	1004.	0.	4060.	1004.	0.	4142.	5505.	95.	** 2560.	-82.	.75	17.	83.0	F	13.5	5.4
13	3	1400.	0.	408.	4060.	0.	408.	4142.	5505.	95.	** 1400.	-82.	.75	17.	83.0	F	26.5	5.4
14	2	1320.	0.	0.	3652.	0.	0.	3734.	4400.	0.	** 1320.	-82.	.85	23.	82.2	F	13.3	4.1
15	3	540.	816.	1288.	4468.	816.	1288.	4550.	5020.	580.	** 540.	-82.	.91	28.	54.6	F	12.8	3.5
16	2	1230.	0.	0.	3180.	0.	0.	3262.	4400.	0.	** 1230.	-82.	.74	16.	101.5	F	16.0	5.5
17	2	890.	680.	0.	3860.	680.	0.	3942.	4399.	1.	** 890.	-82.	.90	27.	73.7	F	19.7	3.6
18	3	4840.	296.	692.	4156.	296.	692.	4238.	5543.	57.	** 4840.	-82.	.76	17.	81.8	F	13.6	5.2
19	2	530.	0.	0.	3464.	0.	0.	3546.	3800.	0.	** 530.	-82.	.93	31.	57.9	F	20.7	3.2
20	2	1040.	536.	0.	4000.	536.	0.	4082.	4376.	24.	** 1040.	-82.	.93	31.	66.7	F	20.7	3.2
21	3	2810.	952.	1036.	4952.	952.	1053.	5034.	5034.	566.	0.	0.	1.00	52.	32.5	E	30.3	2.3
22	2	1850.	0.	0.	3916.	0.	0.	3980.	4400.	0.	0.	0.	.90	58.	34.5	D	18.6	3.0
23	3	2390.	292.	152.	4208.	292.	154.	4272.	5535.	65.	0.	0.	.77	62.	23.0	C	24.1	4.8
24	3	960.	0.	1392.	4056.	0.	1500.	4118.	5577.	23.	0.	0.	.74	62.	22.1	C	17.2	4.8
25	2	1400.	0.	2664.	2664.	0.	2705.	2705.	3600.	0.	0.	0.	.75	62.	21.8	C	19.9	4.8

TOTAL 62500. = 11.8 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 13. 101.0 12.2 5.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	716. VEH-HRS	810. PASS-HRS	11329. VEH-HRS	12825. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	4. VEH-HRS	4. PASS-HRS	582. VEH-HRS	659. PASS-HRS
OFF-RAMP DELAY =	197. VEH-HRS	223. PASS-HRS	2708. VEH-HRS	3066. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	917. VEH-HRS	1037. PASS-HRS	14628. VEH-HRS	16559. PASS-HRS
TOTAL TRAV DISTANCE =	9340. VEH-MI.	10573. PASS-MI.	200755. VEH-MI.	227254. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		18. MPH.	
AVERAGE DENSITY =	101. VPMPL		78. VPMPL	
TOTAL FUEL =	841. GALLONS		16107. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1221. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	0.	3.78	1.43	0.02	0.14	0.02	0.18
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	0.	3.78	1.43	0.02	0.14	0.02	0.18
OFF-RAMP	11	OUTPUT POINT	777.	196.91	74.58	1.15	7.05	1.23	9.42

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2840.	72.	2840.	2840.	72.	2017.	4400.	0.	**12900.	823.	.46	7.	152.1	F	7.4	8.7
2	2	1970.	0.	0.	2768.	0.	0.	1945.	4100.	0.	** 1970.	823.	.47	7.	139.3	F	7.5	8.5
3	2	1830.	392.	140.	3160.	392.	140.	2337.	4100.	0.	** 1830.	823.	.57	9.	123.3	F	9.2	7.1
4	2	2010.	0.	0.	3020.	0.	0.	2197.	4100.	0.	** 2010.	823.	.54	9.	129.0	F	8.5	7.7
5	3	2445.	532.	448.	3552.	532.	448.	2729.	5524.	76.	** 2445.	823.	.49	7.	122.2	F	7.8	8.3
6	2	1890.	0.	0.	3104.	0.	0.	2281.	4100.	0.	** 1890.	823.	.56	9.	125.6	F	8.9	7.4
7	3	5320.	776.	576.	3880.	776.	576.	3057.	5600.	0.	** 5320.	823.	.55	9.	115.9	F	8.7	7.5
8	2	880.	0.	0.	3304.	0.	0.	2481.	3900.	0.	** 880.	823.	.64	12.	106.7	F	10.7	6.5
9	2	1125.	232.	0.	3536.	232.	0.	2713.	3900.	0.	** 1125.	823.	.70	14.	97.2	F	14.9	6.0
10	3	6320.	584.	292.	4120.	584.	292.	3297.	5594.	6.	** 6320.	823.	.59	10.	109.2	F	12.6	6.8
11	2	2050.	0.	0.	3828.	0.	0.	3005.	4100.	0.	** 2050.	823.	.73	16.	96.0	F	15.9	5.6
12	3	2560.	888.	0.	4716.	888.	0.	3893.	5512.	88.	** 2560.	823.	.71	14.	90.0	F	12.9	5.9
13	3	1400.	0.	460.	4716.	0.	460.	3893.	5512.	88.	** 1400.	823.	.71	14.	90.0	F	23.5	5.9
14	2	1320.	0.	0.	4256.	0.	0.	3433.	4400.	0.	** 1320.	823.	.78	18.	94.5	F	12.4	5.0
15	3	540.	900.	1304.	5156.	900.	1246.	4333.	4928.	672.	** 540.	595.	.88	25.	57.3	F	12.4	3.8
16	2	1230.	0.	0.	3852.	0.	0.	3086.	4400.	0.	** 1230.	595.	.70	14.	108.7	F	15.0	5.9
17	2	890.	752.	0.	4604.	752.	0.	3838.	4393.	7.	** 890.	554.	.87	25.	77.5	F	19.2	3.8
18	3	4840.	284.	780.	4888.	284.	746.	4122.	5519.	81.	** 4840.	554.	.75	16.	84.0	F	13.4	5.4
19	2	530.	0.	0.	4108.	0.	0.	3376.	3800.	0.	** 530.	424.	.89	26.	64.8	F	19.6	3.7
20	2	1040.	560.	0.	4668.	560.	0.	3936.	4372.	28.	** 1040.	424.	.90	27.	72.5	F	19.9	3.5
21	3	2810.	988.	1104.	5656.	988.	961.	4924.	4924.	676.	0.	0.	1.00	52.	31.8	E	30.3	2.3
22	2	1850.	0.	0.	4552.	0.	0.	3963.	4400.	0.	0.	0.	.90	58.	34.3	D	18.6	3.1
23	3	2390.	272.	128.	4824.	272.	112.	4235.	5537.	63.	0.	0.	.76	62.	22.8	C	24.1	4.8
24	3	960.	0.	1588.	4696.	0.	1500.	4123.	5576.	24.	0.	0.	.74	62.	22.2	C	17.2	4.8
25	2	1400.	0.	3108.	3108.	0.	2729.	2729.	3600.	0.	0.	0.	.76	62.	22.0	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 12.	103.3		11.9	6.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	733. VEH-HRS	830. PASS-HRS	12062. VEH-HRS	13654. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	26. VEH-HRS	29. PASS-HRS	608. VEH-HRS	688. PASS-HRS
OFF-RAMP DELAY =	191. VEH-HRS	216. PASS-HRS	2899. VEH-HRS	3282. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	949. VEH-HRS	1075. PASS-HRS	15577. VEH-HRS	17633. PASS-HRS
TOTAL TRAV DISTANCE =	9111. VEH-MI.	10314. PASS-MI.	209866. VEH-MI.	237568. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		17. MPH.	
AVERAGE DENSITY =	103. VPMPL		80. VPMPL	
TOTAL FUEL =	847. GALLONS		16954. GALLONS	
TOTAL EMISSIONS =	66. KILOGRAMS		1287. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	206.	25.73	9.74	0.15	0.92	0.16	1.23
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	206.	25.73	9.74	0.15	0.92	0.16	1.23
OFF-RAMP	11	OUTPUT POINT	750.	190.90	72.30	1.11	6.83	1.19	9.13

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2628.	52.	2628.	2628.	52.	1749.	4400.	0.	**12900.	879.	.40	5.	163.3	F	6.8	9.4
2	2	1970.	0.	0.	2576.	0.	0.	1697.	4100.	0.	** 1970.	879.	.41	6.	149.4	F	6.9	9.2
3	2	1830.	472.	96.	3048.	472.	96.	2169.	4100.	0.	** 1830.	879.	.53	8.	130.1	F	8.4	7.8
4	2	2010.	0.	0.	2952.	0.	0.	2073.	4100.	0.	** 2010.	879.	.51	8.	134.1	F	8.0	8.1
5	3	2445.	612.	412.	3564.	612.	412.	2685.	5515.	85.	** 2445.	879.	.49	7.	123.0	F	7.7	8.4
6	2	1890.	0.	0.	3152.	0.	0.	2273.	4100.	0.	** 1890.	879.	.55	9.	125.9	F	8.9	7.4
7	3	5320.	732.	500.	3884.	732.	500.	3005.	5600.	0.	** 5320.	879.	.54	9.	117.3	F	8.5	7.7
8	2	880.	0.	0.	3384.	0.	0.	2505.	3900.	0.	** 880.	879.	.64	12.	105.7	F	10.8	6.4
9	2	1125.	216.	0.	3600.	216.	0.	2721.	3900.	0.	** 1125.	879.	.70	14.	96.9	F	14.9	5.9
10	3	6320.	536.	312.	4136.	536.	312.	3257.	5594.	6.	** 6320.	879.	.58	10.	110.3	F	12.4	6.9
11	2	2050.	0.	0.	3824.	0.	0.	2945.	4100.	0.	** 2050.	879.	.72	15.	98.4	F	15.6	5.7
12	3	2560.	692.	0.	4516.	692.	0.	3637.	5532.	68.	** 2560.	879.	.66	12.	97.7	F	12.0	6.3
13	3	1400.	0.	436.	4516.	0.	436.	3637.	5532.	68.	** 1400.	879.	.66	12.	97.7	F	20.5	6.3
14	2	1320.	0.	0.	4080.	0.	0.	3201.	4400.	0.	** 1320.	879.	.73	15.	104.0	F	12.0	5.6
15	3	540.	932.	1248.	5012.	932.	1220.	4133.	4900.	700.	** 540.	767.	.84	22.	61.7	F	11.8	4.2
16	2	1230.	0.	0.	3764.	0.	0.	2913.	4400.	0.	** 1230.	767.	.66	13.	115.8	F	14.0	6.3
17	2	890.	744.	0.	4508.	744.	0.	3657.	4394.	6.	** 890.	737.	.83	21.	85.0	F	18.2	4.3
18	3	4840.	300.	612.	4808.	300.	598.	3957.	5535.	65.	** 4840.	737.	.71	15.	89.1	F	13.1	5.8
19	2	530.	0.	0.	4196.	0.	0.	3359.	3800.	0.	** 530.	441.	.88	26.	65.5	F	19.5	3.7
20	2	1040.	556.	0.	4752.	556.	0.	3915.	4372.	28.	** 1040.	441.	.90	27.	73.3	F	19.7	3.6
21	3	2810.	1000.	1116.	5752.	1000.	953.	4915.	4915.	685.	0.	0.	1.00	52.	31.8	E	30.3	2.3
22	2	1850.	0.	0.	4636.	0.	0.	3962.	4400.	0.	0.	0.	.90	58.	34.3	D	18.5	3.1
23	3	2390.	296.	132.	4932.	296.	114.	4258.	5540.	60.	0.	0.	.77	62.	22.9	C	24.1	4.8
24	3	960.	0.	1408.	4800.	0.	1500.	4144.	5576.	24.	0.	0.	.74	62.	22.3	C	17.2	4.8
25	2	1400.	0.	3392.	3392.	0.	2929.	2929.	3600.	0.	0.	0.	.81	62.	23.6	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 11.	108.0		11.6	6.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	764. VEH-HRS	865. PASS-HRS	12826. VEH-HRS	14519. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	53. VEH-HRS	60. PASS-HRS	661. VEH-HRS	748. PASS-HRS
OFF-RAMP DELAY =	179. VEH-HRS	202. PASS-HRS	3078. VEH-HRS	3484. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	996. VEH-HRS	1128. PASS-HRS	16573. VEH-HRS	18761. PASS-HRS
TOTAL TRAV DISTANCE =	8753. VEH-MI.	9908. PASS-MI.	218619. VEH-MI.	247477. PASS-MI.
AVERAGE SYSTEM SPEED =	9. MPH.		17. MPH.	
AVERAGE DENSITY =	108. VPMPL		81. VPMPL	
TOTAL FUEL =	844. GALLONS		17798. GALLONS	
TOTAL EMISSIONS =	66. KILOGRAMS		1353. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	220.	53.20	20.15	0.31	1.90	0.33	2.55
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	220.	53.20	20.15	0.31	1.90	0.33	2.55
OFF-RAMP	11	OUTPUT POINT	679.	178.71	67.69	1.04	6.39	1.12	8.55

QUEUE OUT OF SECTION 1

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	12900.	2636.	68.	2636.	2636.	68.	2000.	4400.	0.	**12900.	636.	.45	7.	153.0	F	7.3	8.8
2	2	1970.	0.	0.	2568.	0.	0.	1932.	4100.	0.	** 1970.	636.	.47	7.	139.8	F	7.5	8.6
3	2	1830.	584.	196.	3152.	584.	196.	2516.	4060.	40.	** 1830.	636.	.62	11.	113.8	F	10.0	6.6
4	2	2010.	0.	0.	2956.	0.	0.	2320.	4100.	0.	** 2010.	636.	.57	9.	123.9	F	9.1	7.2
5	3	2445.	616.	472.	3572.	616.	472.	2936.	5463.	137.	** 2445.	636.	.54	9.	114.3	F	8.5	7.7
6	2	1890.	0.	0.	3100.	0.	0.	2464.	4100.	0.	** 1890.	636.	.60	10.	118.1	F	9.8	6.8
7	3	5320.	800.	548.	3900.	800.	548.	3264.	5600.	0.	** 5320.	636.	.58	10.	110.3	F	9.6	6.9
8	2	880.	0.	0.	3352.	0.	0.	2716.	3900.	0.	** 880.	636.	.70	14.	97.1	F	11.5	6.0
9	2	1125.	208.	0.	3560.	208.	0.	2924.	3900.	0.	** 1125.	636.	.75	17.	88.6	F	16.2	5.4
10	3	6320.	600.	356.	4160.	600.	356.	3524.	5594.	6.	** 6320.	636.	.63	11.	103.0	F	13.3	6.5
11	2	2050.	0.	0.	3804.	0.	0.	3168.	4100.	0.	** 2050.	636.	.77	18.	89.3	F	16.7	5.1
12	3	2560.	672.	0.	4476.	672.	0.	3840.	5528.	72.	** 2560.	636.	.69	14.	92.0	F	12.6	6.0
13	3	1400.	0.	480.	4476.	0.	480.	3840.	5528.	72.	** 1400.	636.	.69	14.	92.0	F	22.7	6.0
14	2	1320.	0.	0.	3996.	0.	0.	3360.	4400.	0.	** 1320.	636.	.76	17.	97.5	F	12.3	5.2
15	3	540.	900.	1304.	4896.	900.	1304.	4260.	4940.	660.	** 540.	636.	.86	24.	59.7	F	12.1	4.0
16	2	1230.	0.	0.	3592.	0.	0.	2956.	4400.	0.	** 1230.	636.	.67	13.	114.0	F	14.2	6.2
17	2	890.	740.	0.	4332.	740.	0.	3696.	4395.	5.	** 890.	636.	.84	22.	83.5	F	18.4	4.2
18	3	4840.	292.	708.	4624.	292.	708.	3988.	5529.	71.	** 4840.	636.	.72	15.	88.0	F	13.2	5.7
19	2	530.	0.	0.	3916.	0.	0.	3280.	3800.	0.	** 530.	520.	.86	24.	68.7	F	18.9	4.0
20	2	1040.	580.	0.	4496.	580.	0.	3860.	4368.	32.	** 1040.	507.	.88	26.	75.3	F	19.5	3.7
21	3	2810.	1016.	1256.	5512.	1016.	1111.	4876.	4876.	724.	0.	0.	1.00	52.	31.5	E	30.3	2.3
22	2	1850.	0.	0.	4256.	0.	0.	3765.	4400.	0.	0.	0.	.86	60.	31.6	D	18.1	3.5
23	3	2390.	248.	176.	4504.	248.	156.	4013.	5540.	60.	0.	0.	.72	62.	21.6	C	24.1	4.8
24	3	960.	0.	1492.	4328.	0.	1500.	3857.	5578.	22.	0.	0.	.69	62.	20.7	C	17.2	4.8
25	2	1400.	0.	2836.	2836.	0.	2527.	2527.	3600.	0.	0.	0.	.70	62.	20.4	C	19.9	4.8
TOTAL		62500. =	11.8 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 13.	101.5		12.1	6.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	719. VEH-HRS	814. PASS-HRS	13545. VEH-HRS	15333. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	8. VEH-HRS	9. PASS-HRS
ON-RAMP MRG/CAP DELAY =	47. VEH-HRS	54. PASS-HRS	708. VEH-HRS	802. PASS-HRS
OFF-RAMP DELAY =	164. VEH-HRS	186. PASS-HRS	3243. VEH-HRS	3671. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	931. VEH-HRS	1054. PASS-HRS	17504. VEH-HRS	19815. PASS-HRS
TOTAL TRAV DISTANCE =	9184. VEH-MI.	10396. PASS-MI.	227803. VEH-MI.	257873. PASS-MI.
AVERAGE SYSTEM SPEED =	10. MPH.		17. MPH.	
AVERAGE DENSITY =	101. VPMPL		82. VPMPL	
TOTAL FUEL =	838. GALLONS		18636. GALLONS	
TOTAL EMISSIONS =	65. KILOGRAMS		1419. KILOGRAMS	

***** RAMP DELAYS *****

			QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
ON-RAMP	1	RAMP	159.	47.33	17.93	0.28	1.69	0.30	2.26
		FREEWAY	0.	0.00	0.00	0.00	0.00	0.00	0.00
		TOTAL	159.	47.33	17.93	0.28	1.69	0.30	2.26
OFF-RAMP	11	OUTPUT POINT	637.	164.50	62.30	0.96	5.89	1.03	7.87

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
1	152.	172.	15.	17.	167.	189.	9383.	10622.	56.2	569.	2.	30.	12.	6:00
2	191.	216.	44.	49.	234.	265.	11357.	12856.	48.5	692.	2.	34.	14.	6:15
3	252.	285.	69.	78.	321.	364.	12270.	13890.	38.2	755.	3.	32.	14.	6:30
4	325.	368.	123.	139.	447.	507.	11687.	13230.	26.1	783.	4.	38.	13.	6:45
5	385.	436.	154.	174.	539.	610.	11234.	12717.	20.8	787.	4.	41.	13.	7:00
6	454.	514.	145.	165.	600.	679.	10999.	12451.	18.3	793.	4.	41.	13.	7:15
7	522.	590.	161.	182.	682.	772.	10749.	12168.	15.8	818.	5.	44.	12.	7:30
8	596.	675.	150.	170.	746.	845.	10377.	11746.	13.9	831.	5.	45.	12.	7:45
9	801.	906.	180.	203.	980.	1110.	8232.	9318.	8.4	832.	7.	47.	10.	8:00
10	768.	869.	227.	257.	995.	1126.	8707.	9856.	8.8	855.	7.	49.	11.	8:15
11	746.	844.	219.	248.	964.	1092.	8869.	10040.	9.2	844.	7.	48.	11.	8:30
12	638.	722.	200.	227.	838.	948.	10181.	11524.	12.2	843.	6.	48.	12.	8:45
13	652.	738.	203.	230.	855.	968.	10015.	11337.	11.7	838.	6.	48.	12.	9:00
14	707.	800.	221.	251.	929.	1051.	9341.	10574.	10.1	847.	7.	49.	11.	9:15
15	685.	776.	217.	246.	902.	1021.	9532.	10790.	10.6	838.	6.	48.	11.	9:30
16	650.	735.	187.	212.	837.	947.	10024.	11347.	12.0	832.	6.	47.	11.	9:45
17	695.	787.	178.	202.	873.	989.	9508.	10763.	10.9	828.	6.	47.	11.	10:00
18	701.	793.	199.	225.	900.	1019.	9472.	10722.	10.5	839.	6.	48.	11.	10:15
19	694.	786.	206.	234.	900.	1019.	9479.	10730.	10.5	841.	6.	48.	11.	10:30
20	716.	810.	201.	227.	917.	1037.	9340.	10573.	10.2	841.	6.	47.	11.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	733.	830.	217.	245.	949.	1075.	9111.	10314.	9.6	847.	7.	48.	11.	11:00
22	764.	865.	232.	263.	996.	1128.	8753.	9908.	8.8	844.	7.	48.	11.	11:15
23	719.	814.	212.	240.	931.	1054.	9184.	10396.	9.9	838.	7.	48.	11.	11:30
TOTAL	13545.	15333.	3959.	4482.	17504.	19815.	227803.	257873.	16.8	18636.	126.	1021.	272.	

Horizon Year (2045) Final Build
(Aux Lanes and BOS)
Northbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2840.	84.	2840.	2840.	84.	2840.	4100.	0.	0.	0.	.69	62.	22.9	C	13.6	4.8
2	2	1970.	0.	0.	2756.	0.	0.	2756.	4100.	0.	0.	0.	.67	62.	22.2	C	13.6	4.8
3	2	1830.	244.	116.	3000.	244.	116.	3000.	4100.	0.	0.	0.	.73	62.	24.2	C	13.6	4.8
4	2	2010.	0.	0.	2884.	0.	0.	2884.	4400.	0.	0.	0.	.66	62.	23.3	C	13.6	4.8
5	3	2445.	756.	404.	3640.	756.	404.	3640.	5456.	144.	0.	0.	.67	62.	19.6	C	13.6	4.8
6	2	1890.	0.	0.	3236.	0.	0.	3236.	4400.	0.	0.	0.	.74	62.	26.2	D	13.6	4.7
7	3	5320.	520.	696.	3756.	520.	696.	3756.	5600.	0.	0.	0.	.67	62.	20.2	C	13.6	4.8
8	2	880.	0.	0.	3060.	0.	0.	3060.	4400.	0.	0.	0.	.70	62.	24.7	C	14.9	4.8
9	2	1125.	220.	0.	3280.	220.	0.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	20.1	4.6
10	3	6320.	572.	368.	3852.	572.	368.	3852.	5595.	5.	0.	0.	.69	62.	20.7	C	19.9	4.8
11	2	2050.	0.	0.	3484.	0.	0.	3484.	4100.	0.	0.	0.	.85	60.	29.1	D	21.0	3.6
12	3	2560.	1252.	0.	4736.	1252.	0.	4736.	5496.	104.	0.	0.	.86	59.	26.6	D	18.1	3.5
13	3	1400.	0.	392.	4736.	0.	392.	4736.	5496.	104.	0.	0.	.86	59.	26.6	D	34.6	3.5
14	2	1320.	0.	0.	4344.	0.	0.	4344.	4400.	0.	0.	0.	.99	53.	41.3	E	17.0	2.4
15	3	540.	724.	1376.	5068.	724.	1376.	5068.	5072.	528.	0.	0.	.99	52.	32.7	D	14.5	2.3
16	2	1230.	0.	0.	3692.	0.	0.	3692.	4400.	0.	0.	0.	.84	60.	30.7	D	20.9	3.7
17	2	890.	688.	0.	4380.	688.	0.	4380.	4394.	6.	0.	0.	.99	52.	42.3	E	22.9	2.3
18	3	4840.	284.	804.	4664.	284.	804.	4604.	5524.	76. *	585.	60.	.83	54.	28.3	F	17.8	3.6
19	2	530.	0.	0.	3860.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	368.	0.	4228.	368.	0.	4168.	4384.	16.	0.	0.	.95	55.	37.8	E	22.3	2.4
21	3	2810.	500.	808.	4728.	500.	798.	4668.	5512.	88.	0.	0.	.85	60.	26.0	C	25.4	3.6
22	2	1850.	0.	0.	3920.	0.	0.	3870.	4400.	0.	0.	0.	.88	59.	33.0	D	18.3	3.3
23	3	2390.	308.	108.	4228.	308.	107.	4178.	5527.	73.	0.	0.	.76	62.	22.5	C	24.1	4.8
24	3	960.	0.	1464.	4120.	0.	1447.	4072.	5575.	25.	0.	0.	.73	62.	21.9	C	17.2	4.8
25	2	1400.	0.	2656.	2656.	0.	2625.	2625.	3600.	0.	0.	0.	.73	62.	21.2	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 59.	25.4		17.5	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	161. VEH-HRS	200. PASS-HRS	161. VEH-HRS	200. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	161. VEH-HRS	200. PASS-HRS	161. VEH-HRS	200. PASS-HRS
TOTAL TRAV DISTANCE =	9548. VEH-MI.	11878. PASS-MI.	9548. VEH-MI.	11878. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		59. MPH.	
AVERAGE DENSITY =	25. VPMPL		25. VPMPL	
TOTAL FUEL =	545. GALLONS		545. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		39. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2960.	72.	2960.	2960.	72.	2960.	4100.	0.	0.	0.	.72	62.	23.9	C	13.6	4.8
2	2	1970.	0.	0.	2888.	0.	0.	2888.	4100.	0.	0.	0.	.70	62.	23.3	C	13.6	4.8
3	2	1830.	388.	108.	3276.	388.	108.	3276.	4100.	0.	0.	0.	.80	61.	26.8	D	13.8	4.2
4	2	2010.	0.	0.	3168.	0.	0.	3168.	4400.	0.	0.	0.	.72	62.	25.6	C	13.6	4.7
5	3	2445.	444.	424.	3612.	444.	424.	3612.	5600.	0.	0.	0.	.64	62.	19.4	C	13.6	4.8
6	2	1890.	0.	0.	3188.	0.	0.	3188.	4400.	0.	0.	0.	.72	62.	25.8	C	13.6	4.7
7	3	5320.	604.	684.	3792.	604.	684.	3792.	5600.	0.	0.	0.	.68	62.	20.4	C	13.6	4.8
8	2	880.	0.	0.	3108.	0.	0.	3108.	4400.	0.	0.	0.	.71	62.	25.1	C	14.9	4.8
9	2	1125.	168.	0.	3276.	168.	0.	3276.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
10	3	6320.	616.	324.	3892.	616.	324.	3892.	5596.	4.	0.	0.	.70	62.	20.9	C	19.9	4.8
11	2	2050.	0.	0.	3568.	0.	0.	3568.	4100.	0.	0.	0.	.87	59.	30.2	D	21.2	3.4
12	3	2560.	1152.	0.	4720.	1152.	0.	4720.	5480.	120.	0.	0.	.86	59.	26.5	D	18.1	3.5
13	3	1400.	0.	492.	4720.	0.	492.	4512.	5480.	120.	* 1398.	208.	.82	37.	41.1	F	33.8	3.8
14	2	1320.	0.	0.	4228.	0.	0.	4020.	4400.	0.	** 1320.	208.	.91	31.	65.2	F	14.7	3.2
15	3	540.	908.	1328.	5136.	908.	1274.	4928.	4928.	672.	0.	0.	1.00	52.	31.9	E	14.5	2.3
16	2	1230.	0.	0.	3808.	0.	0.	3645.	4400.	0.	* 106.	9.	.83	56.	32.6	F	20.6	3.8
17	2	890.	748.	0.	4556.	748.	0.	4393.	4393.	7.	0.	0.	1.00	52.	42.6	E	23.0	2.3
18	3	4840.	328.	748.	4884.	328.	723.	4523.	5522.	78.	* 2442.	198.	.82	38.	39.8	F	16.8	3.8
19	2	530.	0.	0.	4136.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	356.	0.	4492.	356.	0.	4156.	4384.	16.	0.	0.	.95	55.	37.6	E	22.3	2.5
21	3	2810.	540.	888.	5032.	540.	829.	4696.	5442.	158.	0.	0.	.86	59.	26.4	D	25.7	3.5
22	2	1850.	0.	0.	4144.	0.	0.	3867.	4400.	0.	0.	0.	.88	59.	32.9	D	18.3	3.3
23	3	2390.	320.	236.	4464.	320.	221.	4187.	5527.	73.	0.	0.	.76	62.	22.5	C	24.1	4.8
24	3	960.	0.	1488.	4228.	0.	1396.	3966.	5574.	26.	0.	0.	.71	62.	21.3	C	17.2	4.8
25	2	1400.	0.	2740.	2740.	0.	2570.	2570.	3600.	0.	0.	0.	.71	62.	20.7	C	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 54.	27.8	17.3	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	177. VEH-HRS	221. PASS-HRS	338. VEH-HRS	420. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	177. VEH-HRS	221. PASS-HRS	338. VEH-HRS	420. PASS-HRS
TOTAL TRAV DISTANCE =	9618. VEH-MI.	11965. PASS-MI.	19166. VEH-MI.	23842. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		57. MPH.	
AVERAGE DENSITY =	28. VPMPL		27. VPMPL	
TOTAL FUEL =	555. GALLONS		1100. GALLONS	
TOTAL EMISSIONS =	40. KILOGRAMS		79. KILOGRAMS	

QUEUE CLEAR SECTION 16 T2 =0.236

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3208.	120.	3208.	3208.	120.	3208.	4100.	0.	0.	0.	.78	61.	26.2	D	13.8	4.4
2	2	1970.	0.	0.	3088.	0.	0.	3088.	4100.	0.	0.	0.	.75	62.	25.0	C	13.7	4.6
3	2	1830.	360.	132.	3448.	360.	132.	3448.	4100.	0.	0.	0.	.84	60.	28.7	D	14.1	3.6
4	2	2010.	0.	0.	3316.	0.	0.	3316.	4400.	0.	0.	0.	.75	62.	26.9	D	13.7	4.6
5	3	2445.	392.	400.	3708.	392.	400.	3708.	5600.	0.	0.	0.	.66	62.	19.9	C	13.6	4.8
6	2	1890.	0.	0.	3308.	0.	0.	3308.	4400.	0.	0.	0.	.75	62.	26.8	D	13.7	4.6
7	3	5320.	628.	540.	3936.	628.	540.	3936.	5600.	0.	0.	0.	.70	62.	21.2	C	13.6	4.8
8	2	880.	0.	0.	3396.	0.	0.	3396.	4400.	0.	0.	0.	.77	61.	27.6	D	15.1	4.5
9	2	1125.	200.	0.	3596.	200.	0.	3596.	4400.	0.	0.	0.	.82	61.	29.7	D	20.6	4.0
10	3	6320.	596.	304.	4192.	596.	304.	4192.	5594.	6.	0.	0.	.75	62.	22.5	C	19.9	4.8
11	2	2050.	0.	0.	3888.	0.	0.	3888.	4100.	0.	0.	0.	.95	55.	35.2	E	22.3	2.4
12	3	2560.	876.	0.	4764.	876.	0.	4636.	5508.	92.	* 1312.	128.	.84	42.	37.0	F	17.2	3.6
13	3	1400.	0.	492.	4764.	0.	492.	4636.	5508.	92.	** 1400.	128.	.84	22.	69.6	F	33.4	4.2
14	2	1320.	0.	0.	4272.	0.	0.	4144.	4400.	0.	** 1320.	128.	.94	32.	65.5	F	14.8	3.1
15	3	540.	848.	1460.	5120.	848.	1423.	4992.	4992.	608.	0.	0.	1.00	52.	32.3	E	14.5	2.3
16	2	1230.	0.	0.	3660.	0.	0.	3579.	4400.	0.	0.	-10.	.81	56.	31.9	D	20.4	4.1
17	2	890.	700.	0.	4360.	700.	0.	4279.	4395.	5.	0.	0.	.97	54.	39.9	E	22.6	2.4
18	3	4840.	252.	816.	4612.	252.	802.	4602.	5521.	79.	* 1774.	-71.	.83	34.	45.1	F	16.0	4.6
19	2	530.	0.	0.	3796.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	384.	0.	4180.	384.	0.	4184.	4384.	16.	0.	0.	.95	55.	38.1	E	22.4	2.4
21	3	2810.	660.	800.	4840.	660.	801.	4844.	5415.	185.	0.	0.	.89	58.	27.8	D	26.4	3.1
22	2	1850.	0.	0.	4040.	0.	0.	4043.	4400.	0.	0.	0.	.92	57.	35.5	E	18.8	2.9
23	3	2390.	348.	116.	4388.	348.	116.	4391.	5513.	87.	0.	0.	.80	62.	23.6	C	24.1	4.8
24	3	960.	0.	1596.	4272.	0.	1500.	4275.	5569.	31.	0.	0.	.77	62.	23.0	C	17.2	4.8
25	2	1400.	0.	2676.	2676.	0.	2678.	2678.	3600.	0.	0.	0.	.74	62.	21.6	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 51.	30.8		17.3	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	196. VEH-HRS	244. PASS-HRS	534. VEH-HRS	665. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	3. VEH-HRS	4. PASS-HRS	3. VEH-HRS	4. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	199. VEH-HRS	248. PASS-HRS	537. VEH-HRS	669. PASS-HRS
TOTAL TRAV DISTANCE =	9970. VEH-MI.	12403. PASS-MI.	29136. VEH-MI.	36245. PASS-MI.
AVERAGE SYSTEM SPEED =	50. MPH.		55. MPH.	
AVERAGE DENSITY =	31. VPMPL		28. VPMPL	
TOTAL FUEL =	579. GALLONS		1679. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		120. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	24.	3.04	1.15	0.02	0.11	0.02	0.15

QUEUE CLEAR SECTION 18 FT= 52

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2972.	124.	2972.	2972.	124.	2972.	4100.	0.	0.	0.	.72	62.	24.0	C	13.6	4.8
2	2	1970.	0.	0.	2848.	0.	0.	2848.	4100.	0.	0.	0.	.69	62.	23.0	C	13.6	4.8
3	2	1830.	280.	152.	3128.	280.	152.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	13.7	4.5
4	2	2010.	0.	0.	2976.	0.	0.	2976.	4400.	0.	0.	0.	.68	62.	24.0	C	13.6	4.8
5	3	2445.	520.	464.	3496.	520.	464.	3496.	5521.	79.	0.	0.	.63	62.	18.8	C	13.6	4.8
6	2	1890.	0.	0.	3032.	0.	0.	3032.	4400.	0.	0.	0.	.69	62.	24.5	C	13.6	4.8
7	3	5320.	608.	524.	3640.	608.	524.	3640.	5600.	0.	0.	0.	.65	62.	19.6	C	13.6	4.8
8	2	880.	0.	0.	3116.	0.	0.	3116.	4400.	0.	0.	0.	.71	62.	25.2	C	14.9	4.8
9	2	1125.	180.	0.	3296.	180.	0.	3296.	4400.	0.	0.	0.	.75	62.	26.7	D	20.1	4.6
10	3	6320.	524.	356.	3820.	524.	356.	3820.	5596.	4.	0.	0.	.68	62.	20.5	C	19.9	4.8
11	2	2050.	0.	0.	3464.	0.	0.	3464.	4100.	0.	0.	0.	.84	60.	28.9	D	20.9	3.6
12	3	2560.	844.	0.	4308.	844.	0.	4360.	5508.	92.	* 888.	-52.	.79	31.	46.7	F	15.6	4.8
13	3	1400.	0.	476.	4308.	0.	476.	4360.	5508.	92.	** 1400.	-52.	.79	19.	77.2	F	29.6	4.8
14	2	1320.	0.	0.	3832.	0.	0.	3884.	4400.	0.	** 1320.	-52.	.88	26.	76.1	F	13.9	3.7
15	3	540.	1024.	1576.	4856.	1024.	1593.	4908.	4908.	692.	0.	0.	1.00	52.	31.7	E	14.5	2.3
16	2	1230.	0.	0.	3280.	0.	0.	3315.	4400.	0.	0.	0.	.75	62.	26.9	D	20.1	4.6
17	2	890.	624.	0.	3904.	624.	0.	3939.	4399.	1.	0.	0.	.90	58.	33.9	D	21.5	3.1
18	3	4840.	256.	912.	4160.	256.	920.	4408.	5537.	63.	0.	-212.	.80	43.	34.1	D	16.4	4.8
19	2	530.	0.	0.	3248.	0.	0.	3488.	3800.	0.	0.	0.	.92	57.	30.6	D	21.8	2.9
20	2	1040.	448.	0.	3696.	448.	0.	3936.	4382.	18.	0.	0.	.90	58.	34.0	D	21.5	3.1
21	3	2810.	584.	912.	4280.	584.	963.	4520.	5422.	178.	0.	0.	.83	62.	24.3	C	24.1	4.8
22	2	1850.	0.	0.	3368.	0.	0.	3557.	4400.	0.	0.	0.	.81	61.	29.2	D	17.6	4.1
23	3	2390.	588.	240.	3956.	588.	252.	4145.	5480.	120.	0.	0.	.76	62.	22.3	C	24.1	4.8
24	3	960.	0.	1616.	3716.	0.	1500.	3893.	5566.	34.	0.	0.	.70	62.	20.9	C	17.2	4.8
25	2	1400.	0.	2100.	2100.	0.	2200.	2200.	3600.	0.	0.	0.	.61	62.	17.7	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 51.	28.4		16.9	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	181. VEH-HRS	225. PASS-HRS	715. VEH-HRS	890. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	12. VEH-HRS	15. PASS-HRS	15. VEH-HRS	19. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	193. VEH-HRS	240. PASS-HRS	730. VEH-HRS	909. PASS-HRS
TOTAL TRAV DISTANCE =	9174. VEH-MI.	11412. PASS-MI.	38310. VEH-MI.	47658. PASS-MI.
AVERAGE SYSTEM SPEED =	48. MPH.		54. MPH.	
AVERAGE DENSITY =	28. VPMPL		28. VPMPL	
TOTAL FUEL =	547. GALLONS		2226. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		163. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	73.	12.12	4.59	0.07	0.43	0.08	0.58

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3124.	120.	3124.	3124.	120.	3124.	4100.	0.	0.	0.	.76	62.	25.4	C	13.7	4.5
2	2	1970.	0.	0.	3004.	0.	0.	3004.	4100.	0.	0.	0.	.73	62.	24.2	C	13.6	4.8
3	2	1830.	260.	204.	3264.	260.	204.	3264.	4100.	0.	0.	0.	.80	61.	26.7	D	13.8	4.2
4	2	2010.	0.	0.	3060.	0.	0.	3060.	4400.	0.	0.	0.	.70	62.	24.7	C	13.6	4.8
5	3	2445.	728.	352.	3788.	728.	352.	3788.	5486.	114.	0.	0.	.69	62.	20.4	C	13.6	4.8
6	2	1890.	0.	0.	3436.	0.	0.	3436.	4400.	0.	0.	0.	.78	61.	28.0	D	13.8	4.4
7	3	5320.	656.	740.	4092.	656.	740.	4092.	5600.	0.	0.	0.	.73	62.	22.0	C	13.6	4.8
8	2	880.	0.	0.	3352.	0.	0.	3352.	4400.	0.	0.	0.	.76	62.	27.2	D	15.0	4.5
9	2	1125.	232.	0.	3584.	232.	0.	3584.	4400.	0.	0.	0.	.81	61.	29.5	D	20.6	4.0
10	3	6320.	500.	368.	4084.	500.	368.	4084.	5592.	8.	0.	0.	.73	62.	22.0	C	19.9	4.8
11	2	2050.	0.	0.	3716.	0.	0.	3400.	4100.	0.	* 1200.	316.	.83	51.	33.3	F	21.3	3.1
12	3	2560.	720.	0.	4436.	720.	0.	4120.	5524.	76.	** 2560.	316.	.75	20.	68.7	F	14.2	5.3
13	3	1400.	0.	468.	4436.	0.	468.	4120.	5524.	76.	** 1400.	316.	.75	16.	84.3	F	26.0	5.4
14	2	1320.	0.	0.	3968.	0.	0.	3652.	4400.	0.	** 1320.	316.	.83	21.	85.6	F	13.0	4.4
15	3	540.	1116.	1292.	5084.	1116.	1212.	4768.	4768.	832.	0.	0.	1.00	52.	30.8	E	14.5	2.3
16	2	1230.	0.	0.	3792.	0.	0.	3556.	4400.	0.	0.	0.	.81	61.	29.2	D	20.5	4.1
17	2	890.	580.	0.	4372.	580.	0.	4136.	4395.	5.	0.	0.	.94	56.	37.2	E	22.1	2.6
18	3	4840.	204.	792.	4576.	204.	751.	4340.	5537.	63.	0.	0.	.78	62.	23.3	C	17.2	4.8
19	2	530.	0.	0.	3784.	0.	0.	3589.	3800.	0.	0.	0.	.94	55.	32.4	D	22.2	2.5
20	2	1040.	372.	0.	4156.	372.	0.	3961.	4385.	15.	0.	0.	.90	58.	34.3	D	21.6	3.0
21	3	2810.	660.	784.	4816.	660.	752.	4621.	5418.	182.	0.	0.	.85	60.	25.8	C	25.5	3.5
22	2	1850.	0.	0.	4032.	0.	0.	3869.	4400.	0.	0.	0.	.88	59.	32.9	D	18.3	3.3
23	3	2390.	380.	176.	4412.	380.	170.	4249.	5513.	87.	0.	0.	.77	62.	22.8	C	24.1	4.8
24	3	960.	0.	1480.	4236.	0.	1500.	4079.	5569.	31.	0.	0.	.73	62.	21.9	C	17.2	4.8
25	2	1400.	0.	2756.	2756.	0.	2654.	2654.	3600.	0.	0.	0.	.74	62.	21.4	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 49.	30.4		16.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	195. VEH-HRS	243. PASS-HRS	911. VEH-HRS	1133. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	16. VEH-HRS	20. PASS-HRS	31. VEH-HRS	39. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	211. VEH-HRS	263. PASS-HRS	942. VEH-HRS	1171. PASS-HRS
TOTAL TRAV DISTANCE =	9634. VEH-MI.	11984. PASS-MI.	47944. VEH-MI.	59642. PASS-MI.
AVERAGE SYSTEM SPEED =	46. MPH.		53. MPH.	
AVERAGE DENSITY =	30. VPMPL		29. VPMPL	
TOTAL FUEL =	576. GALLONS		2802. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		206. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	54.	15.81	5.99	0.09	0.57	0.10	0.76

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2928.	124.	2928.	2928.	124.	2928.	4100.	0.	0.	0.	.71	62.	23.6	C	13.6	4.8
2	2	1970.	0.	0.	2804.	0.	0.	2804.	4100.	0.	0.	0.	.68	62.	22.6	C	13.6	4.8
3	2	1830.	260.	160.	3064.	260.	160.	3064.	4100.	0.	0.	0.	.75	62.	24.7	C	13.6	4.8
4	2	2010.	0.	0.	2904.	0.	0.	2904.	4400.	0.	0.	0.	.66	62.	23.4	C	13.6	4.8
5	3	2445.	620.	320.	3524.	620.	320.	3524.	5560.	40.	0.	0.	.63	62.	18.9	C	13.6	4.8
6	2	1890.	0.	0.	3204.	0.	0.	3204.	4400.	0.	0.	0.	.73	62.	25.9	C	13.6	4.7
7	3	5320.	472.	596.	3676.	472.	596.	3676.	5600.	0.	0.	0.	.66	62.	19.8	C	13.6	4.8
8	2	880.	0.	0.	3080.	0.	0.	3080.	4400.	0.	0.	0.	.70	62.	24.8	C	14.9	4.8
9	2	1125.	188.	0.	3268.	188.	0.	3268.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
10	3	6320.	440.	296.	3708.	440.	296.	3708.	5596.	4.	0.	0.	.66	62.	19.9	C	19.9	4.8
11	2	2050.	0.	0.	3412.	0.	0.	3476.	4100.	0.	* 328.	-64.	.85	37.	46.9	F	19.9	3.9
12	3	2560.	920.	0.	4332.	920.	0.	4396.	5508.	92.	** 2560.	-64.	.80	19.	76.2	F	14.0	4.8
13	3	1400.	0.	428.	4332.	0.	428.	4396.	5508.	92.	** 1400.	-64.	.80	19.	76.2	F	30.3	4.8
14	2	1320.	0.	0.	3904.	0.	0.	3968.	4400.	0.	** 1320.	-64.	.90	27.	72.6	F	14.2	3.5
15	3	540.	952.	1388.	4856.	952.	1406.	4920.	4920.	680.	0.	0.	1.00	52.	31.8	E	14.5	2.3
16	2	1230.	0.	0.	3468.	0.	0.	3514.	4400.	0.	0.	0.	.80	61.	28.8	D	20.4	4.2
17	2	890.	704.	0.	4172.	704.	0.	4218.	4397.	3.	0.	0.	.96	55.	38.7	E	22.4	2.4
18	3	4840.	228.	676.	4400.	228.	683.	4446.	5536.	64.	0.	0.	.80	62.	23.9	C	17.2	4.8
19	2	530.	0.	0.	3724.	0.	0.	3763.	3800.	0.	0.	0.	.99	52.	36.0	E	22.8	2.3
20	2	1040.	380.	0.	4104.	380.	0.	4143.	4384.	16.	0.	0.	.94	55.	37.4	E	22.2	2.5
21	3	2810.	652.	796.	4756.	652.	802.	4795.	5417.	183.	0.	0.	.89	58.	27.3	D	26.2	3.2
22	2	1850.	0.	0.	3960.	0.	0.	3992.	4400.	0.	0.	0.	.91	57.	34.7	D	18.6	3.0
23	3	2390.	324.	152.	4284.	324.	153.	4316.	5523.	77.	0.	0.	.78	62.	23.2	C	24.1	4.8
24	3	960.	0.	1576.	4132.	0.	1500.	4163.	5572.	28.	0.	0.	.75	62.	22.4	C	17.2	4.8
25	2	1400.	0.	2556.	2556.	0.	2575.	2575.	3600.	0.	0.	0.	.72	62.	20.8	C	19.9	4.8
TOTAL		53000. =	10.0 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 49.	30.1	17.0	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	192. VEH-HRS	239. PASS-HRS	1103. VEH-HRS	1372. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	16. VEH-HRS	20. PASS-HRS	47. VEH-HRS	59. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	208. VEH-HRS	259. PASS-HRS	1150. VEH-HRS	1430. PASS-HRS
TOTAL TRAV DISTANCE =	9375. VEH-MI.	11662. PASS-MI.	57318. VEH-MI.	71304. PASS-MI.
AVERAGE SYSTEM SPEED =	45. MPH.		52. MPH.	
AVERAGE DENSITY =	30. VPMPL		29. VPMPL	
TOTAL FUEL =	556. GALLONS		3358. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		248. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	76.	16.22	6.14	0.09	0.58	0.10	0.78

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3004.	176.	3004.	3004.	176.	3004.	4100.	0.	0.	0.	.73	62.	24.2	C	13.6	4.8
2	2	1970.	0.	0.	2828.	0.	0.	2828.	4100.	0.	0.	0.	.69	62.	22.8	C	13.6	4.8
3	2	1830.	244.	140.	3072.	244.	140.	3072.	4100.	0.	0.	0.	.75	62.	24.8	C	13.6	4.8
4	2	2010.	0.	0.	2932.	0.	0.	2932.	4400.	0.	0.	0.	.67	62.	23.6	C	13.6	4.8
5	3	2445.	712.	372.	3644.	712.	372.	3644.	5495.	105.	0.	0.	.66	62.	19.6	C	13.6	4.8
6	2	1890.	0.	0.	3272.	0.	0.	3272.	4400.	0.	0.	0.	.74	62.	26.5	D	13.6	4.6
7	3	5320.	544.	528.	3816.	544.	528.	3816.	5600.	0.	0.	0.	.68	62.	20.5	C	13.6	4.8
8	2	880.	0.	0.	3288.	0.	0.	3288.	4400.	0.	0.	0.	.75	62.	26.6	D	15.0	4.6
9	2	1125.	168.	0.	3456.	168.	0.	3456.	4400.	0.	0.	0.	.79	61.	28.2	D	20.3	4.4
10	3	6320.	552.	284.	4008.	552.	284.	4008.	5595.	5.	0.	0.	.72	62.	21.5	C	19.9	4.8
11	2	2050.	0.	0.	3724.	0.	0.	3724.	4100.	0.	0.	0.	.91	57.	32.9	D	21.6	3.0
12	3	2560.	852.	0.	4576.	852.	0.	4648.	5516.	84.	* 2008.	-72.	.84	24.	65.9	F	15.0	4.3
13	3	1400.	0.	456.	4576.	0.	456.	4648.	5516.	84.	** 1400.	-72.	.84	22.	69.6	F	33.4	4.2
14	2	1320.	0.	0.	4120.	0.	0.	4192.	4400.	0.	** 1320.	-72.	.95	33.	63.5	F	14.9	3.0
15	3	540.	808.	1276.	4928.	808.	1295.	5000.	5000.	600.	0.	0.	1.00	52.	32.3	E	14.5	2.3
16	2	1230.	0.	0.	3652.	0.	0.	3705.	4400.	0.	0.	0.	.84	60.	30.9	D	20.9	3.6
17	2	890.	676.	0.	4328.	676.	0.	4381.	4396.	4.	0.	0.	.99	52.	42.3	E	22.9	2.3
18	3	4840.	248.	540.	4576.	248.	546.	4346.	5546.	54.	* 2339.	283.	.78	39.	36.7	F	16.8	4.0
19	2	530.	0.	0.	4036.	0.	0.	3800.	3800.	0.	0.	0.	1.00	52.	36.9	E	23.0	2.3
20	2	1040.	384.	0.	4420.	384.	0.	4184.	4384.	16.	0.	0.	.95	55.	38.1	E	22.4	2.4
21	3	2810.	672.	856.	5092.	672.	816.	4856.	5357.	243.	0.	0.	.91	58.	28.1	D	26.7	3.0
22	2	1850.	0.	0.	4236.	0.	0.	4040.	4400.	0.	0.	0.	.92	57.	35.5	E	18.8	2.9
23	3	2390.	332.	156.	4568.	332.	149.	4372.	5520.	80.	0.	0.	.79	62.	23.5	C	24.1	4.8
24	3	960.	0.	1540.	4412.	0.	1500.	4222.	5571.	29.	0.	0.	.76	62.	22.7	C	17.2	4.8
25	2	1400.	0.	2872.	2872.	0.	2748.	2748.	3600.	0.	0.	0.	.76	62.	22.2	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 49. 30.6 17.2 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	198. VEH-HRS	246. PASS-HRS	1300. VEH-HRS	1618. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	18. VEH-HRS	23. PASS-HRS	65. VEH-HRS	81. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	216. VEH-HRS	269. PASS-HRS	1366. VEH-HRS	1699. PASS-HRS
TOTAL TRAV DISTANCE =	9727. VEH-MI.	12100. PASS-MI.	67045. VEH-MI.	83404. PASS-MI.
AVERAGE SYSTEM SPEED =	45. MPH.		52. MPH.	
AVERAGE DENSITY =	31. VPMPL		29. VPMPL	
TOTAL FUEL =	572. GALLONS		3930. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		289. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	69.	18.14	6.87	0.11	0.65	0.11	0.87

```
QUEUE CLEAR SECTION  18 T2 =0.232
QUEUE CLEAR SECTION  14 T2 =0.233
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2984.	124.	2984.	2984.	124.	2984.	4100.	0.	0.	0.	.73	62.	24.1	C	13.6	4.8
2	2	1970.	0.	0.	2860.	0.	0.	2860.	4100.	0.	0.	0.	.70	62.	23.1	C	13.6	4.8
3	2	1830.	312.	156.	3172.	312.	156.	3172.	4100.	0.	0.	0.	.77	61.	25.8	C	13.7	4.5
4	2	2010.	0.	0.	3016.	0.	0.	3016.	4400.	0.	0.	0.	.69	62.	24.3	C	13.6	4.8
5	3	2445.	604.	380.	3620.	604.	380.	3620.	5537.	63.	0.	0.	.65	62.	19.5	C	13.6	4.8
6	2	1890.	0.	0.	3240.	0.	0.	3240.	4400.	0.	0.	0.	.74	62.	26.2	D	13.6	4.7
7	3	5320.	556.	624.	3796.	556.	624.	3796.	5600.	0.	0.	0.	.68	62.	20.4	C	13.6	4.8
8	2	880.	0.	0.	3172.	0.	0.	3172.	4400.	0.	0.	0.	.72	62.	25.6	C	14.9	4.7
9	2	1125.	172.	0.	3344.	172.	0.	3344.	4400.	0.	0.	0.	.76	62.	27.1	D	20.1	4.5
10	3	6320.	472.	328.	3816.	472.	328.	3816.	5595.	5.	0.	0.	.68	62.	20.5	C	19.9	4.8
11	2	2050.	0.	0.	3488.	0.	0.	3488.	4100.	0.	0.	0.	.85	60.	29.2	D	21.0	3.6
12	3	2560.	776.	0.	4264.	776.	0.	4264.	5508.	92.	0.	0.	.77	47.	30.5	D	16.7	4.6
13	3	1400.	0.	504.	4264.	0.	504.	4264.	5508.	92.	0.	0.	.77	30.	48.0	F	33.5	4.3
14	2	1320.	0.	0.	3760.	0.	0.	4200.	4400.	0.	0.	-440.	.95	35.	59.7	F	15.0	3.0
15	3	540.	832.	1460.	4592.	832.	1600.	5032.	5032.	568.	0.	0.	1.00	52.	32.5	E	14.5	2.3
16	2	1230.	0.	0.	3132.	0.	0.	3432.	4400.	0.	0.	0.	.78	61.	28.0	D	20.3	4.4
17	2	890.	512.	0.	3644.	512.	0.	3944.	4400.	0.	0.	0.	.90	58.	34.0	D	21.5	3.1
18	3	4840.	204.	728.	3848.	204.	785.	4457.	5559.	41.	0.	-309.	.80	41.	36.4	E	16.3	4.8
19	2	530.	0.	0.	3120.	0.	0.	3673.	3800.	0.	0.	0.	.97	54.	34.0	D	22.5	2.4
20	2	1040.	384.	0.	3504.	384.	0.	4057.	4388.	12.	0.	0.	.92	57.	35.8	E	21.9	2.8
21	3	2810.	776.	720.	4280.	776.	813.	4833.	5411.	189.	0.	0.	.89	58.	27.7	D	26.4	3.2
22	2	1850.	0.	0.	3560.	0.	0.	4020.	4400.	0.	0.	0.	.91	57.	35.2	E	18.7	2.9
23	3	2390.	308.	244.	3868.	308.	273.	4328.	5538.	62.	0.	0.	.78	62.	23.3	C	24.1	4.8
24	3	960.	0.	1560.	3624.	0.	1500.	4055.	5582.	18.	0.	0.	.73	62.	21.8	C	17.2	4.8
25	2	1400.	0.	2064.	2064.	0.	2309.	2309.	3600.	0.	0.	0.	.64	62.	18.6	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 54. 27.5 17.2 4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	174. VEH-HRS	217. PASS-HRS	1474. VEH-HRS	1834. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	25. VEH-HRS	31. PASS-HRS	90. VEH-HRS	112. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	199. VEH-HRS	248. PASS-HRS	1565. VEH-HRS	1947. PASS-HRS
TOTAL TRAV DISTANCE =	9427. VEH-MI.	11727. PASS-MI.	76472. VEH-MI.	95131. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		52. MPH.	
AVERAGE DENSITY =	27. VPMPL		29. VPMPL	
TOTAL FUEL =	558. GALLONS		4488. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		331. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	131.	24.99	9.46	0.15	0.89	0.16	1.20

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3204.	152.	3204.	3204.	152.	3204.	4100.	0.	0.	0.	.78	61.	26.1	D	13.8	4.4
2	2	1970.	0.	0.	3052.	0.	0.	3052.	4100.	0.	0.	0.	.74	62.	24.6	C	13.6	4.8
3	2	1830.	284.	144.	3336.	284.	144.	3336.	4100.	0.	0.	0.	.81	61.	27.5	D	13.9	4.0
4	2	2010.	0.	0.	3192.	0.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	13.6	4.7
5	3	2445.	436.	540.	3628.	436.	540.	3628.	5526.	74.	0.	0.	.66	62.	19.5	C	13.6	4.8
6	2	1890.	0.	0.	3088.	0.	0.	3088.	4400.	0.	0.	0.	.70	62.	24.9	C	13.6	4.8
7	3	5320.	448.	496.	3536.	448.	496.	3536.	5600.	0.	0.	0.	.63	62.	19.0	C	13.6	4.8
8	2	880.	0.	0.	3040.	0.	0.	3040.	4400.	0.	0.	0.	.69	62.	24.5	C	14.9	4.8
9	2	1125.	152.	0.	3192.	152.	0.	3192.	4400.	0.	0.	0.	.73	62.	25.8	C	20.0	4.7
10	3	6320.	392.	372.	3584.	392.	372.	3584.	5597.	3.	0.	0.	.64	62.	19.3	C	19.9	4.8
11	2	2050.	0.	0.	3212.	0.	0.	3212.	4100.	0.	0.	0.	.78	61.	26.2	D	20.3	4.4
12	3	2560.	936.	0.	4148.	936.	0.	4148.	5505.	95.	0.	0.	.75	62.	22.3	C	17.2	4.8
13	3	1400.	0.	444.	4148.	0.	444.	4148.	5505.	95.	0.	0.	.75	62.	22.3	C	32.3	4.8
14	2	1320.	0.	0.	3704.	0.	0.	3704.	4400.	0.	0.	0.	.84	60.	30.9	D	15.6	3.6
15	3	540.	612.	1216.	4316.	612.	1216.	4316.	5160.	440.	0.	0.	.84	62.	23.2	C	12.6	4.8
16	2	1230.	0.	0.	3100.	0.	0.	3100.	4400.	0.	0.	0.	.70	62.	25.0	C	20.0	4.8
17	2	890.	632.	0.	3732.	632.	0.	3732.	4399.	1.	0.	0.	.85	60.	31.2	D	21.0	3.6
18	3	4840.	192.	548.	3924.	192.	548.	3924.	5555.	45.	0.	0.	.71	62.	21.1	C	17.2	4.8
19	2	530.	0.	0.	3376.	0.	0.	3376.	3800.	0.	0.	0.	.89	58.	28.9	D	21.4	3.2
20	2	1040.	436.	0.	3812.	436.	0.	3812.	4382.	18.	0.	0.	.87	59.	32.3	D	21.2	3.4
21	3	2810.	592.	836.	4404.	592.	836.	4404.	5446.	154.	0.	0.	.81	62.	23.7	C	24.1	4.8
22	2	1850.	0.	0.	3568.	0.	0.	3568.	4400.	0.	0.	0.	.81	61.	29.4	D	17.7	4.1
23	3	2390.	336.	172.	3904.	336.	172.	3904.	5529.	71.	0.	0.	.71	62.	21.0	C	24.1	4.8
24	3	960.	0.	1460.	3732.	0.	1500.	3732.	5577.	23.	0.	0.	.67	62.	20.1	C	17.2	4.8
25	2	1400.	0.	2272.	2272.	0.	2272.	2272.	3600.	0.	0.	0.	.63	62.	18.3	C	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.89 LOWEST LOS = D AVG = 62. 23.2 17.0 4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	145. VEH-HRS	181. PASS-HRS	1620. VEH-HRS	2015. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	31. VEH-HRS	39. PASS-HRS	122. VEH-HRS	151. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	177. VEH-HRS	220. PASS-HRS	1741. VEH-HRS	2166. PASS-HRS
TOTAL TRAV DISTANCE =	8951. VEH-MI.	11135. PASS-MI.	85423. VEH-MI.	106266. PASS-MI.
AVERAGE SYSTEM SPEED =	51. MPH.		53. MPH.	
AVERAGE DENSITY =	23. VPMPL		28. VPMPL	
TOTAL FUEL =	537. GALLONS		5026. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		374. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	121.	31.40	11.89	0.18	1.12	0.20	1.50

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3044.	112.	3044.	3044.	112.	3044.	4100.	0.	0.	0.	.74	62.	24.5	C	13.6	4.8
2	2	1970.	0.	0.	2932.	0.	0.	2932.	4100.	0.	0.	0.	.72	62.	23.6	C	13.6	4.8
3	2	1830.	264.	156.	3196.	264.	156.	3196.	4100.	0.	0.	0.	.78	61.	26.0	D	13.7	4.4
4	2	2010.	0.	0.	3040.	0.	0.	3040.	4400.	0.	0.	0.	.69	62.	24.5	C	13.6	4.8
5	3	2445.	652.	536.	3692.	652.	536.	3692.	5380.	220.	0.	0.	.69	62.	19.8	C	13.6	4.8
6	2	1890.	0.	0.	3156.	0.	0.	3156.	4400.	0.	0.	0.	.72	62.	25.5	C	13.6	4.7
7	3	5320.	444.	568.	3600.	444.	568.	3600.	5600.	0.	0.	0.	.64	62.	19.4	C	13.6	4.8
8	2	880.	0.	0.	3032.	0.	0.	3032.	4400.	0.	0.	0.	.69	62.	24.5	C	14.9	4.8
9	2	1125.	180.	0.	3212.	180.	0.	3212.	4400.	0.	0.	0.	.73	62.	26.0	C	20.0	4.7
10	3	6320.	472.	428.	3684.	472.	428.	3684.	5596.	4.	0.	0.	.66	62.	19.8	C	19.9	4.8
11	2	2050.	0.	0.	3256.	0.	0.	3256.	4100.	0.	0.	0.	.79	61.	26.6	D	20.4	4.3
12	3	2560.	712.	0.	3968.	712.	0.	3968.	5516.	84.	0.	0.	.72	62.	21.3	C	17.2	4.8
13	3	1400.	0.	492.	3968.	0.	492.	3968.	5516.	84.	0.	0.	.72	62.	21.3	C	32.3	4.8
14	2	1320.	0.	0.	3476.	0.	0.	3476.	4400.	0.	0.	0.	.79	61.	28.4	D	15.2	4.3
15	3	540.	656.	1420.	4132.	656.	1420.	4132.	5168.	432.	0.	0.	.80	62.	22.2	C	12.6	4.8
16	2	1230.	0.	0.	2712.	0.	0.	2712.	4400.	0.	0.	0.	.62	62.	21.9	C	19.9	4.8
17	2	890.	568.	0.	3280.	568.	0.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	20.1	4.6
18	3	4840.	248.	612.	3528.	248.	612.	3528.	5570.	30.	0.	0.	.63	62.	19.0	C	17.2	4.8
19	2	530.	0.	0.	2916.	0.	0.	2916.	3800.	0.	0.	0.	.77	62.	23.5	C	19.9	4.8
20	2	1040.	368.	0.	3284.	368.	0.	3284.	4389.	11.	0.	0.	.75	62.	26.6	D	20.1	4.6
21	3	2810.	648.	800.	3932.	648.	800.	3932.	5478.	122.	0.	0.	.72	62.	21.1	C	24.1	4.8
22	2	1850.	0.	0.	3132.	0.	0.	3132.	4400.	0.	0.	0.	.71	62.	25.3	C	17.2	4.7
23	3	2390.	252.	156.	3384.	252.	156.	3384.	5564.	36.	0.	0.	.61	62.	18.2	C	24.1	4.8
24	3	960.	0.	1516.	3228.	0.	1500.	3228.	5595.	5.	0.	0.	.58	62.	17.4	B	17.2	4.8
25	2	1400.	0.	1712.	1712.	0.	1712.	1712.	3600.	0.	0.	0.	.48	62.	13.8	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.80 LOWEST LOS = D AVG = 62. 21.9 16.9 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	171. PASS-HRS	1757. VEH-HRS	2186. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	31. VEH-HRS	38. PASS-HRS	152. VEH-HRS	190. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	168. VEH-HRS	209. PASS-HRS	1909. VEH-HRS	2375. PASS-HRS
TOTAL TRAV DISTANCE =	8509. VEH-MI.	10586. PASS-MI.	93932. VEH-MI.	116852. PASS-MI.
AVERAGE SYSTEM SPEED =	51. MPH.		53. MPH.	
AVERAGE DENSITY =	22. VPMPL		28. VPMPL	
TOTAL FUEL =	517. GALLONS		5542. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		415. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	125.	30.65	11.61	0.18	1.10	0.19	1.47

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3288.	128.	3288.	3288.	128.	3288.	4100.	0.	0.	0.	.80	61.	27.0	D	13.8	4.2
2	2	1970.	0.	0.	3160.	0.	0.	3160.	4100.	0.	0.	0.	.77	61.	25.7	C	13.7	4.5
3	2	1830.	268.	144.	3428.	268.	144.	3428.	4100.	0.	0.	0.	.84	60.	28.5	D	14.1	3.7
4	2	2010.	0.	0.	3284.	0.	0.	3284.	4400.	0.	0.	0.	.75	62.	26.6	D	13.6	4.6
5	3	2445.	612.	504.	3896.	612.	504.	3896.	5430.	170.	0.	0.	.72	62.	20.9	C	13.6	4.8
6	2	1890.	0.	0.	3392.	0.	0.	3392.	4400.	0.	0.	0.	.77	61.	27.6	D	13.7	4.5
7	3	5320.	376.	548.	3768.	376.	548.	3768.	5600.	0.	0.	0.	.67	62.	20.3	C	13.6	4.8
8	2	880.	0.	0.	3220.	0.	0.	3220.	4400.	0.	0.	0.	.73	62.	26.0	D	15.0	4.7
9	2	1125.	128.	0.	3348.	128.	0.	3348.	4400.	0.	0.	0.	.76	62.	27.2	D	20.1	4.5
10	3	6320.	440.	388.	3788.	440.	388.	3788.	5596.	4.	0.	0.	.68	62.	20.4	C	19.9	4.8
11	2	2050.	0.	0.	3400.	0.	0.	3400.	4100.	0.	0.	0.	.83	60.	28.2	D	20.7	3.8
12	3	2560.	760.	0.	4160.	760.	0.	4160.	5520.	80.	0.	0.	.75	62.	22.4	C	17.2	4.8
13	3	1400.	0.	448.	4160.	0.	448.	4160.	5520.	80.	0.	0.	.75	62.	22.4	C	32.3	4.8
14	2	1320.	0.	0.	3712.	0.	0.	3712.	4400.	0.	0.	0.	.84	60.	31.0	D	15.6	3.6
15	3	540.	552.	1264.	4264.	552.	1264.	4264.	5212.	388.	0.	0.	.82	62.	22.9	C	12.6	4.8
16	2	1230.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	19.9	4.8
17	2	890.	604.	0.	3604.	604.	0.	3604.	4400.	0.	0.	0.	.82	61.	29.7	D	20.6	4.0
18	3	4840.	248.	608.	3852.	248.	608.	3852.	5559.	41.	0.	0.	.69	62.	20.7	C	17.2	4.8
19	2	530.	0.	0.	3244.	0.	0.	3244.	3800.	0.	0.	0.	.85	60.	27.2	D	21.0	3.5
20	2	1040.	444.	0.	3688.	444.	0.	3688.	4382.	18.	0.	0.	.84	60.	30.7	D	20.9	3.6
21	3	2810.	628.	928.	4316.	628.	928.	4316.	5389.	211.	0.	0.	.80	62.	23.2	C	24.1	4.8
22	2	1850.	0.	0.	3388.	0.	0.	3388.	4400.	0.	0.	0.	.77	61.	27.6	D	17.4	4.5
23	3	2390.	312.	180.	3700.	312.	180.	3700.	5539.	61.	0.	0.	.67	62.	19.9	C	24.1	4.8
24	3	960.	0.	1564.	3520.	0.	1500.	3520.	5585.	15.	0.	0.	.63	62.	18.9	C	17.2	4.8
25	2	1400.	0.	1956.	1956.	0.	1956.	1956.	3600.	0.	0.	0.	.54	62.	15.8	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.85		LOWEST LOS = D	AVG = 62.	23.5		17.0	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	147. VEH-HRS	183. PASS-HRS	1905. VEH-HRS	2369. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	33. VEH-HRS	41. PASS-HRS	186. VEH-HRS	231. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	181. VEH-HRS	225. PASS-HRS	2090. VEH-HRS	2600. PASS-HRS
TOTAL TRAV DISTANCE =	9086. VEH-MI.	11303. PASS-MI.	103018. VEH-MI.	128155. PASS-MI.
AVERAGE SYSTEM SPEED =	50. MPH.		54. MPH.	
AVERAGE DENSITY =	24. VPMPL		27. VPMPL	
TOTAL FUEL =	548. GALLONS		6090. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		459. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	141.	33.15	12.56	0.19	1.19	0.21	1.59

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3052.	120.	3052.	3052.	120.	3052.	4100.	0.	0.	0.	.74	62.	24.6	C	13.6	4.8
2	2	1970.	0.	0.	2932.	0.	0.	2932.	4100.	0.	0.	0.	.72	62.	23.6	C	13.6	4.8
3	2	1830.	264.	196.	3196.	264.	196.	3196.	4100.	0.	0.	0.	.78	61.	26.0	D	13.7	4.4
4	2	2010.	0.	0.	3000.	0.	0.	3000.	4400.	0.	0.	0.	.68	62.	24.2	C	13.6	4.8
5	3	2445.	556.	540.	3556.	556.	540.	3556.	5440.	160.	0.	0.	.65	62.	19.1	C	13.6	4.8
6	2	1890.	0.	0.	3016.	0.	0.	3016.	4400.	0.	0.	0.	.69	62.	24.3	C	13.6	4.8
7	3	5320.	452.	612.	3468.	452.	612.	3468.	5600.	0.	0.	0.	.62	62.	18.6	C	13.6	4.8
8	2	880.	0.	0.	2856.	0.	0.	2856.	4400.	0.	0.	0.	.65	62.	23.0	C	14.9	4.8
9	2	1125.	148.	0.	3004.	148.	0.	3004.	4400.	0.	0.	0.	.68	62.	24.2	C	19.9	4.8
10	3	6320.	508.	340.	3512.	508.	340.	3512.	5597.	3.	0.	0.	.63	62.	18.9	C	19.9	4.8
11	2	2050.	0.	0.	3172.	0.	0.	3172.	4100.	0.	0.	0.	.77	61.	25.8	C	20.2	4.5
12	3	2560.	852.	0.	4024.	852.	0.	4024.	5494.	106.	0.	0.	.73	62.	21.6	C	17.2	4.8
13	3	1400.	0.	528.	4024.	0.	528.	4024.	5494.	106.	0.	0.	.73	62.	21.6	C	32.3	4.8
14	2	1320.	0.	0.	3496.	0.	0.	3496.	4400.	0.	0.	0.	.79	61.	28.6	D	15.2	4.3
15	3	540.	580.	1296.	4076.	580.	1296.	4076.	5204.	396.	0.	0.	.78	62.	21.9	C	12.6	4.8
16	2	1230.	0.	0.	2780.	0.	0.	2780.	4400.	0.	0.	0.	.63	62.	22.4	C	19.9	4.8
17	2	890.	608.	0.	3388.	608.	0.	3388.	4400.	0.	0.	0.	.77	61.	27.6	D	20.2	4.5
18	3	4840.	132.	504.	3520.	132.	504.	3520.	5567.	33.	0.	0.	.63	62.	18.9	C	17.2	4.8
19	2	530.	0.	0.	3016.	0.	0.	3016.	3800.	0.	0.	0.	.79	62.	24.3	C	19.9	4.8
20	2	1040.	424.	0.	3440.	424.	0.	3440.	4385.	15.	0.	0.	.78	61.	28.1	D	20.3	4.4
21	3	2810.	728.	920.	4168.	728.	920.	4168.	5319.	281.	0.	0.	.78	62.	22.4	C	24.1	4.8
22	2	1850.	0.	0.	3248.	0.	0.	3248.	4400.	0.	0.	0.	.74	62.	26.3	D	17.3	4.7
23	3	2390.	340.	176.	3588.	340.	176.	3588.	5553.	47.	0.	0.	.65	62.	19.3	C	24.1	4.8
24	3	960.	0.	1740.	3412.	0.	1500.	3412.	5593.	7.	0.	0.	.61	62.	18.3	C	17.2	4.8
25	2	1400.	0.	1672.	1672.	0.	1672.	1672.	3600.	0.	0.	0.	.46	62.	13.5	B	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.79 LOWEST LOS = D AVG = 62. 21.8 16.9 4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	137. VEH-HRS	170. PASS-HRS	2041. VEH-HRS	2539. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	43. VEH-HRS	53. PASS-HRS	228. VEH-HRS	284. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	179. VEH-HRS	223. PASS-HRS	2270. VEH-HRS	2823. PASS-HRS
TOTAL TRAV DISTANCE =	8465. VEH-MI.	10530. PASS-MI.	111483. VEH-MI.	138685. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		55. MPH.	
AVERAGE DENSITY =	22. VPMPL		27. VPMPL	
TOTAL FUEL =	517. GALLONS		6607. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		501. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	201.	42.65	16.16	0.25	1.53	0.27	2.04

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3244.	188.	3244.	3244.	188.	3244.	4100.	0.	0.	0.	.79	61.	26.5	D	13.8	4.3
2	2	1970.	0.	0.	3056.	0.	0.	3056.	4100.	0.	0.	0.	.75	62.	24.6	C	13.6	4.8
3	2	1830.	320.	160.	3376.	320.	160.	3376.	4100.	0.	0.	0.	.82	60.	27.9	D	14.0	3.9
4	2	2010.	0.	0.	3216.	0.	0.	3216.	4400.	0.	0.	0.	.73	62.	26.0	D	13.6	4.7
5	3	2445.	456.	584.	3672.	456.	584.	3672.	5485.	115.	0.	0.	.67	62.	19.7	C	13.6	4.8
6	2	1890.	0.	0.	3088.	0.	0.	3088.	4400.	0.	0.	0.	.70	62.	24.9	C	13.6	4.8
7	3	5320.	620.	580.	3708.	620.	580.	3708.	5600.	0.	0.	0.	.66	62.	19.9	C	13.6	4.8
8	2	880.	0.	0.	3128.	0.	0.	3128.	4400.	0.	0.	0.	.71	62.	25.3	C	14.9	4.7
9	2	1125.	244.	0.	3372.	244.	0.	3372.	4400.	0.	0.	0.	.77	62.	27.4	D	20.2	4.5
10	3	6320.	556.	480.	3928.	556.	480.	3928.	5593.	7.	0.	0.	.70	62.	21.1	C	19.9	4.8
11	2	2050.	0.	0.	3448.	0.	0.	3448.	4100.	0.	0.	0.	.84	60.	28.7	D	20.9	3.6
12	3	2560.	832.	0.	4280.	832.	0.	4280.	5508.	92.	0.	0.	.78	62.	23.0	C	17.2	4.8
13	3	1400.	0.	472.	4280.	0.	472.	4280.	5508.	92.	0.	0.	.78	62.	23.0	C	32.3	4.8
14	2	1320.	0.	0.	3808.	0.	0.	3808.	4400.	0.	0.	0.	.87	59.	32.1	D	15.7	3.4
15	3	540.	808.	1348.	4616.	808.	1348.	4616.	5028.	572.	0.	0.	.92	62.	24.8	C	12.6	4.8
16	2	1230.	0.	0.	3268.	0.	0.	3268.	4400.	0.	0.	0.	.74	62.	26.5	D	20.1	4.6
17	2	890.	724.	0.	3992.	724.	0.	3992.	4398.	2.	0.	0.	.91	57.	34.7	D	21.6	3.0
18	3	4840.	188.	528.	4180.	188.	528.	4180.	5549.	51.	0.	0.	.75	62.	22.5	C	17.2	4.8
19	2	530.	0.	0.	3652.	0.	0.	3652.	3800.	0.	0.	0.	.96	54.	33.6	D	22.4	2.4
20	2	1040.	504.	0.	4156.	504.	0.	4156.	4377.	23.	0.	0.	.95	55.	37.7	E	22.3	2.4
21	3	2810.	792.	976.	4948.	792.	976.	4948.	5181.	419.	0.	0.	.96	55.	30.1	D	28.4	2.4
22	2	1850.	0.	0.	3972.	0.	0.	3972.	4400.	0.	0.	0.	.90	58.	34.4	D	18.6	3.1
23	3	2390.	396.	140.	4368.	396.	140.	4368.	5500.	100.	0.	0.	.79	62.	23.5	C	24.1	4.8
24	3	960.	0.	1716.	4228.	0.	1500.	4228.	5566.	34.	0.	0.	.76	62.	22.7	C	17.2	4.8
25	2	1400.	0.	2512.	2512.	0.	2512.	2512.	3600.	0.	0.	0.	.70	62.	20.3	C	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.96		LOWEST LOS = E	AVG = 61.	24.9		17.4	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	156. VEH-HRS	195. PASS-HRS	2198. VEH-HRS	2734. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	57. VEH-HRS	71. PASS-HRS	285. VEH-HRS	355. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	213. VEH-HRS	265. PASS-HRS	2483. VEH-HRS	3089. PASS-HRS
TOTAL TRAV DISTANCE =	9492. VEH-MI.	11808. PASS-MI.	120975. VEH-MI.	150493. PASS-MI.
AVERAGE SYSTEM SPEED =	45. MPH.		55. MPH.	
AVERAGE DENSITY =	25. VPMPL		27. VPMPL	
TOTAL FUEL =	569. GALLONS		7175. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		544. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	255.	56.90	21.55	0.33	2.04	0.36	2.72

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	3432.	168.	3432.	3432.	168.	3432.	4100.	0.	0.	0.	.84	60.	28.5	D	14.1	3.7
2	2	1970.	0.	0.	3264.	0.	0.	3264.	4100.	0.	0.	0.	.80	61.	26.7	D	13.8	4.2
3	2	1830.	364.	240.	3628.	364.	240.	3628.	4100.	0.	0.	0.	.88	58.	31.0	D	14.4	3.2
4	2	2010.	0.	0.	3388.	0.	0.	3388.	4400.	0.	0.	0.	.77	61.	27.6	D	13.7	4.5
5	3	2445.	544.	680.	3932.	544.	680.	3932.	5351.	249.	0.	0.	.73	62.	21.1	C	13.6	4.8
6	2	1890.	0.	0.	3252.	0.	0.	3252.	4400.	0.	0.	0.	.74	62.	26.3	D	13.6	4.7
7	3	5320.	572.	868.	3824.	572.	868.	3824.	5600.	0.	0.	0.	.68	62.	20.6	C	13.6	4.8
8	2	880.	0.	0.	2956.	0.	0.	2956.	4400.	0.	0.	0.	.67	62.	23.8	C	14.9	4.8
9	2	1125.	132.	0.	3088.	132.	0.	3088.	4400.	0.	0.	0.	.70	62.	24.9	C	20.0	4.8
10	3	6320.	456.	496.	3544.	456.	496.	3544.	5597.	3.	0.	0.	.63	62.	19.1	C	19.9	4.8
11	2	2050.	0.	0.	3048.	0.	0.	3048.	4100.	0.	0.	0.	.74	62.	24.6	C	19.9	4.8
12	3	2560.	772.	0.	3820.	772.	0.	3820.	5481.	119.	0.	0.	.70	62.	20.5	C	17.2	4.8
13	3	1400.	0.	656.	3820.	0.	656.	3820.	5481.	119.	0.	0.	.70	62.	20.5	C	32.3	4.8
14	2	1320.	0.	0.	3164.	0.	0.	3164.	4400.	0.	0.	0.	.72	62.	25.6	C	14.9	4.7
15	3	540.	832.	1376.	3996.	832.	1376.	3996.	5056.	544.	0.	0.	.79	62.	21.5	C	12.6	4.8
16	2	1230.	0.	0.	2620.	0.	0.	2620.	4400.	0.	0.	0.	.60	62.	21.1	C	19.9	4.8
17	2	890.	640.	0.	3260.	640.	0.	3260.	4400.	0.	0.	0.	.74	62.	26.4	D	20.1	4.7
18	3	4840.	184.	504.	3444.	184.	504.	3444.	5573.	27.	0.	0.	.62	62.	18.5	C	17.2	4.8
19	2	530.	0.	0.	2940.	0.	0.	2940.	3800.	0.	0.	0.	.77	62.	23.7	C	19.9	4.8
20	2	1040.	424.	0.	3364.	424.	0.	3364.	4386.	14.	0.	0.	.77	62.	27.3	D	20.2	4.5
21	3	2810.	700.	992.	4064.	700.	992.	4064.	5332.	268.	0.	0.	.76	62.	21.8	C	24.1	4.8
22	2	1850.	0.	0.	3072.	0.	0.	3072.	4400.	0.	0.	0.	.70	62.	24.8	C	17.2	4.8
23	3	2390.	364.	192.	3436.	364.	192.	3436.	5567.	33.	0.	0.	.62	62.	18.5	C	24.1	4.8
24	3	960.	0.	1720.	3244.	0.	1500.	3244.	5600.	0.	0.	0.	.58	62.	17.4	B	17.2	4.8
25	2	1400.	0.	1524.	1524.	0.	1524.	1524.	3600.	0.	0.	0.	.42	62.	12.3	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.88		LOWEST LOS = D	AVG = 62.	22.3		16.8	4.6

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	140. VEH-HRS	174. PASS-HRS	2338. VEH-HRS	2908. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	71. VEH-HRS	88. PASS-HRS	356. VEH-HRS	442. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	210. VEH-HRS	262. PASS-HRS	2693. VEH-HRS	3350. PASS-HRS
TOTAL TRAV DISTANCE =	8629. VEH-MI.	10735. PASS-MI.	129604. VEH-MI.	161228. PASS-MI.
AVERAGE SYSTEM SPEED =	41. MPH.		55. MPH.	
AVERAGE DENSITY =	22. VPMPL		26. VPMPL	
TOTAL FUEL =	540. GALLONS		7715. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		587. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	310.	70.53	26.71	0.41	2.52	0.44	3.37

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2972.	156.	2972.	2972.	156.	2972.	4100.	0.	0.	0.	.72	62.	24.0	C	13.6	4.8
2	2	1970.	0.	0.	2816.	0.	0.	2816.	4100.	0.	0.	0.	.69	62.	22.7	C	13.6	4.8
3	2	1830.	324.	232.	3140.	324.	232.	3140.	4100.	0.	0.	0.	.77	62.	25.5	C	13.7	4.5
4	2	2010.	0.	0.	2908.	0.	0.	2908.	4400.	0.	0.	0.	.66	62.	23.5	C	13.6	4.8
5	3	2445.	740.	476.	3648.	740.	476.	3648.	5410.	190.	0.	0.	.67	62.	19.6	C	13.6	4.8
6	2	1890.	0.	0.	3172.	0.	0.	3172.	4400.	0.	0.	0.	.72	62.	25.6	C	13.6	4.7
7	3	5320.	544.	824.	3716.	544.	824.	3716.	5600.	0.	0.	0.	.66	62.	20.0	C	13.6	4.8
8	2	880.	0.	0.	2892.	0.	0.	2892.	4400.	0.	0.	0.	.66	62.	23.3	C	14.9	4.8
9	2	1125.	156.	0.	3048.	156.	0.	3048.	4400.	0.	0.	0.	.69	62.	24.6	C	19.9	4.8
10	3	6320.	436.	392.	3484.	436.	392.	3484.	5597.	3.	0.	0.	.62	62.	18.7	C	19.9	4.8
11	2	2050.	0.	0.	3092.	0.	0.	3092.	4100.	0.	0.	0.	.75	62.	25.1	C	20.1	4.6
12	3	2560.	744.	0.	3836.	744.	0.	3836.	5524.	76.	0.	0.	.69	62.	20.6	C	17.2	4.8
13	3	1400.	0.	416.	3836.	0.	416.	3836.	5524.	76.	0.	0.	.69	62.	20.6	C	32.3	4.8
14	2	1320.	0.	0.	3420.	0.	0.	3420.	4400.	0.	0.	0.	.78	61.	27.9	D	15.1	4.4
15	3	540.	760.	1404.	4180.	760.	1404.	4180.	5096.	504.	0.	0.	.82	62.	22.5	C	12.6	4.8
16	2	1230.	0.	0.	2776.	0.	0.	2776.	4400.	0.	0.	0.	.63	62.	22.4	C	19.9	4.8
17	2	890.	488.	0.	3264.	488.	0.	3264.	4400.	0.	0.	0.	.74	62.	26.4	D	20.1	4.6
18	3	4840.	192.	444.	3456.	192.	444.	3456.	5576.	24.	0.	0.	.62	62.	18.6	C	17.2	4.8
19	2	530.	0.	0.	3012.	0.	0.	3012.	3800.	0.	0.	0.	.79	62.	24.3	C	19.9	4.8
20	2	1040.	508.	0.	3520.	508.	0.	3520.	4382.	18.	0.	0.	.80	61.	28.9	D	20.5	4.2
21	3	2810.	544.	864.	4064.	544.	864.	4064.	5473.	127.	0.	0.	.74	62.	21.8	C	24.1	4.8
22	2	1850.	0.	0.	3200.	0.	0.	3200.	4400.	0.	0.	0.	.73	62.	25.9	C	17.2	4.7
23	3	2390.	356.	176.	3556.	356.	176.	3556.	5541.	59.	0.	0.	.64	62.	19.1	C	24.1	4.8
24	3	960.	0.	1632.	3380.	0.	1500.	3380.	5591.	9.	0.	0.	.60	62.	18.2	C	17.2	4.8
25	2	1400.	0.	1748.	1748.	0.	1748.	1748.	3600.	0.	0.	0.	.49	62.	14.1	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.82		LOWEST LOS = D	AVG = 62.	21.6		16.8	4.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	169. PASS-HRS	2474. VEH-HRS	3077. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	82. VEH-HRS	101. PASS-HRS	437. VEH-HRS	544. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	218. VEH-HRS	271. PASS-HRS	2911. VEH-HRS	3621. PASS-HRS
TOTAL TRAV DISTANCE =	8431. VEH-MI.	10488. PASS-MI.	138035. VEH-MI.	171715. PASS-MI.
AVERAGE SYSTEM SPEED =	39. MPH.		56. MPH.	
AVERAGE DENSITY =	22. VPMPL		26. VPMPL	
TOTAL FUEL =	531. GALLONS		8247. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		631. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	343.	81.53	30.88	0.47	2.92	0.51	3.90

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2680.	152.	2680.	2680.	152.	2680.	4100.	0.	0.	0.	.65	62.	21.6	C	13.6	4.8
2	2	1970.	0.	0.	2528.	0.	0.	2528.	4100.	0.	0.	0.	.62	62.	20.4	C	13.6	4.8
3	2	1830.	272.	164.	2800.	272.	164.	2800.	4100.	0.	0.	0.	.68	62.	22.6	C	13.6	4.8
4	2	2010.	0.	0.	2636.	0.	0.	2636.	4400.	0.	0.	0.	.60	62.	21.3	C	13.6	4.8
5	3	2445.	680.	504.	3316.	680.	504.	3316.	5420.	180.	0.	0.	.61	62.	17.8	B	13.6	4.8
6	2	1890.	0.	0.	2812.	0.	0.	2812.	4400.	0.	0.	0.	.64	62.	22.7	C	13.6	4.8
7	3	5320.	440.	780.	3252.	440.	780.	3252.	5600.	0.	0.	0.	.58	62.	17.5	B	13.6	4.8
8	2	880.	0.	0.	2472.	0.	0.	2472.	4400.	0.	0.	0.	.56	62.	19.9	C	14.9	4.8
9	2	1125.	124.	0.	2596.	124.	0.	2596.	4400.	0.	0.	0.	.59	62.	20.9	C	19.9	4.8
10	3	6320.	436.	472.	3032.	436.	472.	3032.	5600.	0.	0.	0.	.54	62.	16.3	B	19.9	4.8
11	2	2050.	0.	0.	2560.	0.	0.	2560.	4100.	0.	0.	0.	.62	62.	20.6	C	19.9	4.8
12	3	2560.	772.	0.	3332.	772.	0.	3332.	5523.	77.	0.	0.	.60	62.	17.9	B	17.2	4.8
13	3	1400.	0.	408.	3332.	0.	408.	3332.	5523.	77.	0.	0.	.60	62.	17.9	B	32.3	4.8
14	2	1320.	0.	0.	2924.	0.	0.	2924.	4400.	0.	0.	0.	.66	62.	23.6	C	14.9	4.8
15	3	540.	764.	1368.	3688.	764.	1368.	3688.	5120.	480.	0.	0.	.72	62.	19.8	C	12.6	4.8
16	2	1230.	0.	0.	2320.	0.	0.	2320.	4400.	0.	0.	0.	.53	62.	18.7	C	19.9	4.8
17	2	890.	664.	0.	2984.	664.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	19.9	4.8
18	3	4840.	136.	608.	3120.	136.	608.	3120.	5589.	11.	0.	0.	.56	62.	16.8	B	17.2	4.8
19	2	530.	0.	0.	2512.	0.	0.	2512.	3800.	0.	0.	0.	.66	62.	20.3	C	19.9	4.8
20	2	1040.	420.	0.	2932.	420.	0.	2932.	4394.	6.	0.	0.	.67	62.	23.6	C	19.9	4.8
21	3	2810.	568.	868.	3500.	568.	868.	3500.	5494.	106.	0.	0.	.64	62.	18.8	C	24.1	4.8
22	2	1850.	0.	0.	2632.	0.	0.	2632.	4400.	0.	0.	0.	.60	62.	21.2	C	17.2	4.8
23	3	2390.	324.	148.	2956.	324.	148.	2956.	5584.	16.	0.	0.	.53	62.	15.9	B	24.1	4.8
24	3	960.	0.	1344.	2808.	0.	1500.	2808.	5600.	0.	0.	0.	.50	62.	15.1	B	17.2	4.8
25	2	1400.	0.	1464.	1464.	0.	1464.	1464.	3600.	0.	0.	0.	.41	62.	11.8	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.72		LOWEST LOS = C	AVG = 62.	18.8		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	119. VEH-HRS	148. PASS-HRS	2592. VEH-HRS	3225. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	81. VEH-HRS	100. PASS-HRS	518. VEH-HRS	644. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	199. VEH-HRS	248. PASS-HRS	3110. VEH-HRS	3869. PASS-HRS
TOTAL TRAV DISTANCE =	7353. VEH-MI.	9147. PASS-MI.	145388. VEH-MI.	180862. PASS-MI.
AVERAGE SYSTEM SPEED =	37. MPH.		56. MPH.	
AVERAGE DENSITY =	19. VPMPL		26. VPMPL	
TOTAL FUEL =	469. GALLONS		8716. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		670. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	304.	80.78	30.60	0.47	2.89	0.50	3.86

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2156.	156.	2156.	2156.	156.	2156.	4100.	0.	0.	0.	.53	62.	17.4	B	13.6	4.8
2	2	1970.	0.	0.	2000.	0.	0.	2000.	4100.	0.	0.	0.	.49	62.	16.1	B	13.6	4.8
3	2	1830.	248.	188.	2248.	248.	188.	2248.	4100.	0.	0.	0.	.55	62.	18.1	C	13.6	4.8
4	2	2010.	0.	0.	2060.	0.	0.	2060.	4400.	0.	0.	0.	.47	62.	16.6	B	13.6	4.8
5	3	2445.	532.	424.	2592.	532.	424.	2592.	5583.	17.	0.	0.	.46	62.	13.9	B	13.6	4.8
6	2	1890.	0.	0.	2168.	0.	0.	2168.	4400.	0.	0.	0.	.49	62.	17.5	B	13.6	4.8
7	3	5320.	432.	508.	2600.	432.	508.	2600.	5600.	0.	0.	0.	.46	62.	14.0	B	13.6	4.8
8	2	880.	0.	0.	2092.	0.	0.	2092.	4400.	0.	0.	0.	.48	62.	16.9	B	14.9	4.8
9	2	1125.	112.	0.	2204.	112.	0.	2204.	4400.	0.	0.	0.	.50	62.	17.8	B	19.9	4.8
10	3	6320.	380.	268.	2584.	380.	268.	2584.	5600.	0.	0.	0.	.46	62.	13.9	B	19.9	4.8
11	2	2050.	0.	0.	2316.	0.	0.	2316.	4100.	0.	0.	0.	.56	62.	18.7	C	19.9	4.8
12	3	2560.	640.	0.	2956.	640.	0.	2956.	5548.	52.	0.	0.	.53	62.	15.9	B	17.2	4.8
13	3	1400.	0.	372.	2956.	0.	372.	2956.	5548.	52.	0.	0.	.53	62.	15.9	B	32.3	4.8
14	2	1320.	0.	0.	2584.	0.	0.	2584.	4400.	0.	0.	0.	.59	62.	20.8	C	14.9	4.8
15	3	540.	692.	1100.	3276.	692.	1100.	3276.	5140.	460.	0.	0.	.64	62.	17.6	B	12.6	4.8
16	2	1230.	0.	0.	2176.	0.	0.	2176.	4400.	0.	0.	0.	.49	62.	17.5	B	19.9	4.8
17	2	890.	640.	0.	2816.	640.	0.	2816.	4400.	0.	0.	0.	.64	62.	22.7	C	19.9	4.8
18	3	4840.	136.	476.	2952.	136.	476.	2952.	5596.	4.	0.	0.	.53	62.	15.9	B	17.2	4.8
19	2	530.	0.	0.	2476.	0.	0.	2476.	3800.	0.	0.	0.	.65	62.	20.0	C	19.9	4.8
20	2	1040.	392.	0.	2868.	392.	0.	2868.	4395.	5.	0.	0.	.65	62.	23.1	C	19.9	4.8
21	3	2810.	436.	788.	3304.	436.	788.	3304.	5566.	34.	0.	0.	.59	62.	17.8	B	24.1	4.8
22	2	1850.	0.	0.	2516.	0.	0.	2516.	4400.	0.	0.	0.	.57	62.	20.3	C	17.2	4.8
23	3	2390.	272.	108.	2788.	272.	108.	2788.	5600.	0.	0.	0.	.50	62.	15.0	B	24.1	4.8
24	3	960.	0.	1416.	2680.	0.	1500.	2680.	5600.	0.	0.	0.	.48	62.	14.4	B	17.2	4.8
25	2	1400.	0.	1264.	1264.	0.	1264.	1264.	3600.	0.	0.	0.	.35	62.	10.2	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.65 LOWEST LOS = C AVG = 62. 16.3 17.0 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	103. VEH-HRS	128. PASS-HRS	2695. VEH-HRS	3353. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	73. VEH-HRS	91. PASS-HRS	591. VEH-HRS	735. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	176. VEH-HRS	219. PASS-HRS	3287. VEH-HRS	4088. PASS-HRS
TOTAL TRAV DISTANCE =	6382. VEH-MI.	7939. PASS-MI.	151770. VEH-MI.	188802. PASS-MI.
AVERAGE SYSTEM SPEED =	36. MPH.		56. MPH.	
AVERAGE DENSITY =	16. VPMPL		25. VPMPL	
TOTAL FUEL =	404. GALLONS		9120. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		704. KILOGRAMS	

***** RAMP DELAYS *****

		QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11	OUTPUT POINT	283.	73.28	27.75	0.43	2.62	0.46	3.51

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2256.	108.	2256.	2256.	108.	2256.	4100.	0.	0.	0.	.55	62.	18.2	C	13.6	4.8
2	2	1970.	0.	0.	2148.	0.	0.	2148.	4100.	0.	0.	0.	.52	62.	17.3	B	13.6	4.8
3	2	1830.	240.	128.	2388.	240.	128.	2388.	4100.	0.	0.	0.	.58	62.	19.3	C	13.6	4.8
4	2	2010.	0.	0.	2260.	0.	0.	2260.	4400.	0.	0.	0.	.51	62.	18.2	C	13.6	4.8
5	3	2445.	440.	432.	2700.	440.	432.	2700.	5600.	0.	0.	0.	.48	62.	14.5	B	13.6	4.8
6	2	1890.	0.	0.	2268.	0.	0.	2268.	4400.	0.	0.	0.	.52	62.	18.3	C	13.6	4.8
7	3	5320.	340.	648.	2608.	340.	648.	2608.	5600.	0.	0.	0.	.47	62.	14.0	B	13.6	4.8
8	2	880.	0.	0.	1960.	0.	0.	1960.	4400.	0.	0.	0.	.45	62.	15.8	B	14.9	4.8
9	2	1125.	144.	0.	2104.	144.	0.	2104.	4400.	0.	0.	0.	.48	62.	17.0	B	19.9	4.8
10	3	6320.	400.	356.	2504.	400.	356.	2504.	5600.	0.	0.	0.	.45	62.	13.5	B	19.9	4.8
11	2	2050.	0.	0.	2148.	0.	0.	2148.	4100.	0.	0.	0.	.52	62.	17.3	B	19.9	4.8
12	3	2560.	564.	0.	2712.	564.	0.	2712.	5564.	36.	0.	0.	.49	62.	14.6	B	17.2	4.8
13	3	1400.	0.	284.	2712.	0.	284.	2712.	5564.	36.	0.	0.	.49	62.	14.6	B	32.3	4.8
14	2	1320.	0.	0.	2428.	0.	0.	2428.	4400.	0.	0.	0.	.55	62.	19.6	C	14.9	4.8
15	3	540.	692.	1084.	3120.	692.	1084.	3120.	5148.	452.	0.	0.	.61	62.	16.8	B	12.6	4.8
16	2	1230.	0.	0.	2036.	0.	0.	2036.	4400.	0.	0.	0.	.46	62.	16.4	B	19.9	4.8
17	2	890.	600.	0.	2636.	600.	0.	2636.	4400.	0.	0.	0.	.60	62.	21.3	C	19.9	4.8
18	3	4840.	204.	456.	2840.	204.	456.	2840.	5600.	0.	0.	0.	.51	62.	15.3	B	17.2	4.8
19	2	530.	0.	0.	2384.	0.	0.	2384.	3800.	0.	0.	0.	.63	62.	19.2	C	19.9	4.8
20	2	1040.	408.	0.	2792.	408.	0.	2792.	4397.	3.	0.	0.	.63	62.	22.5	C	19.9	4.8
21	3	2810.	460.	800.	3252.	460.	800.	3252.	5567.	33.	0.	0.	.58	62.	17.5	B	24.1	4.8
22	2	1850.	0.	0.	2452.	0.	0.	2452.	4400.	0.	0.	0.	.56	62.	19.8	C	17.2	4.8
23	3	2390.	232.	104.	2684.	232.	104.	2684.	5600.	0.	0.	0.	.48	62.	14.4	B	24.1	4.8
24	3	960.	0.	1240.	2580.	0.	1500.	2580.	5600.	0.	0.	0.	.46	62.	13.9	B	17.2	4.8
25	2	1400.	0.	1340.	1340.	0.	1340.	1340.	3600.	0.	0.	0.	.37	62.	10.8	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.63		LOWEST LOS = C	AVG = 62.	16.1		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	101. VEH-HRS	126. PASS-HRS	2797. VEH-HRS	3479. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	63. VEH-HRS	78. PASS-HRS	654. VEH-HRS	813. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	164. VEH-HRS	204. PASS-HRS	3450. VEH-HRS	4292. PASS-HRS
TOTAL TRAV DISTANCE =	6285. VEH-MI.	7818. PASS-MI.	158054. VEH-MI.	196620. PASS-MI.
AVERAGE SYSTEM SPEED =	38. MPH.		57. MPH.	
AVERAGE DENSITY =	16. VPMPL		25. VPMPL	
TOTAL FUEL =	397. GALLONS		9517. GALLONS	
TOTAL EMISSIONS =	33. KILOGRAMS		737. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	218.	62.53	23.68	0.36	2.24	0.39	2.99

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	2052.	120.	2052.	2052.	120.	2052.	4100.	0.	0.	0.	.50	62.	16.5	B	13.6	4.8
2	2	1970.	0.	0.	1932.	0.	0.	1932.	4100.	0.	0.	0.	.47	62.	15.6	B	13.6	4.8
3	2	1830.	280.	128.	2212.	280.	128.	2212.	4100.	0.	0.	0.	.54	62.	17.8	B	13.6	4.8
4	2	2010.	0.	0.	2084.	0.	0.	2084.	4400.	0.	0.	0.	.47	62.	16.8	B	13.6	4.8
5	3	2445.	488.	424.	2572.	488.	424.	2572.	5600.	0.	0.	0.	.46	62.	13.8	B	13.6	4.8
6	2	1890.	0.	0.	2148.	0.	0.	2148.	4400.	0.	0.	0.	.49	62.	17.3	B	13.6	4.8
7	3	5320.	392.	516.	2540.	392.	516.	2540.	5600.	0.	0.	0.	.45	62.	13.7	B	13.6	4.8
8	2	880.	0.	0.	2024.	0.	0.	2024.	4400.	0.	0.	0.	.46	62.	16.3	B	14.9	4.8
9	2	1125.	208.	0.	2232.	208.	0.	2232.	4400.	0.	0.	0.	.51	62.	18.0	B	19.9	4.8
10	3	6320.	304.	292.	2536.	304.	292.	2536.	5600.	0.	0.	0.	.45	62.	13.6	B	19.9	4.8
11	2	2050.	0.	0.	2244.	0.	0.	2244.	4100.	0.	0.	0.	.55	62.	18.1	C	19.9	4.8
12	3	2560.	508.	0.	2752.	508.	0.	2752.	5561.	39.	0.	0.	.49	62.	14.8	B	17.2	4.8
13	3	1400.	0.	328.	2752.	0.	328.	2752.	5561.	39.	0.	0.	.49	62.	14.8	B	32.3	4.8
14	2	1320.	0.	0.	2424.	0.	0.	2424.	4400.	0.	0.	0.	.55	62.	19.5	C	14.9	4.8
15	3	540.	596.	1076.	3020.	596.	1076.	3020.	5216.	384.	0.	0.	.58	62.	16.2	B	12.6	4.8
16	2	1230.	0.	0.	1944.	0.	0.	1944.	4400.	0.	0.	0.	.44	62.	15.7	B	19.9	4.8
17	2	890.	584.	0.	2528.	584.	0.	2528.	4400.	0.	0.	0.	.57	62.	20.4	C	19.9	4.8
18	3	4840.	212.	416.	2740.	212.	416.	2740.	5600.	0.	0.	0.	.49	62.	14.7	B	17.2	4.8
19	2	530.	0.	0.	2324.	0.	0.	2324.	3800.	0.	0.	0.	.61	62.	18.7	C	19.9	4.8
20	2	1040.	300.	0.	2624.	300.	0.	2624.	4397.	3.	0.	0.	.60	62.	21.2	C	19.9	4.8
21	3	2810.	368.	628.	2992.	368.	628.	2992.	5579.	21.	0.	0.	.54	62.	16.1	B	24.1	4.8
22	2	1850.	0.	0.	2364.	0.	0.	2364.	4400.	0.	0.	0.	.54	62.	19.1	C	17.2	4.8
23	3	2390.	248.	124.	2612.	248.	124.	2612.	5593.	7.	0.	0.	.47	62.	14.0	B	24.1	4.8
24	3	960.	0.	1024.	2488.	0.	1500.	2488.	5600.	0.	0.	0.	.44	62.	13.4	B	17.2	4.8
25	2	1400.	0.	1464.	1464.	0.	1464.	1464.	3600.	0.	0.	0.	.41	62.	11.8	B	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.61		LOWEST LOS = C	AVG = 62.	15.6		16.9	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	98. VEH-HRS	122. PASS-HRS	2895. VEH-HRS	3602. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	40. VEH-HRS	49. PASS-HRS	693. VEH-HRS	862. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	138. VEH-HRS	172. PASS-HRS	3588. VEH-HRS	4464. PASS-HRS
TOTAL TRAV DISTANCE =	6101. VEH-MI.	7590. PASS-MI.	164155. VEH-MI.	204209. PASS-MI.
AVERAGE SYSTEM SPEED =	44. MPH.		57. MPH.	
AVERAGE DENSITY =	16. VPMPL		24. VPMPL	
TOTAL FUEL =	376. GALLONS		9893. GALLONS	
TOTAL EMISSIONS =	31. KILOGRAMS		768. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	99.	39.53	14.97	0.23	1.41	0.25	1.89

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1896.	84.	1896.	1896.	84.	1896.	4100.	0.	0.	0.	.46	62.	15.3	B	13.6	4.8
2	2	1970.	0.	0.	1812.	0.	0.	1812.	4100.	0.	0.	0.	.44	62.	14.6	B	13.6	4.8
3	2	1830.	240.	156.	2052.	240.	156.	2052.	4100.	0.	0.	0.	.50	62.	16.5	B	13.6	4.8
4	2	2010.	0.	0.	1896.	0.	0.	1896.	4400.	0.	0.	0.	.43	62.	15.3	B	13.6	4.8
5	3	2445.	320.	356.	2216.	320.	356.	2216.	5600.	0.	0.	0.	.40	62.	11.9	B	13.6	4.8
6	2	1890.	0.	0.	1860.	0.	0.	1860.	4400.	0.	0.	0.	.42	62.	15.0	B	13.6	4.8
7	3	5320.	448.	540.	2308.	448.	540.	2308.	5600.	0.	0.	0.	.41	62.	12.4	B	13.6	4.8
8	2	880.	0.	0.	1768.	0.	0.	1768.	4400.	0.	0.	0.	.40	62.	14.3	B	14.9	4.8
9	2	1125.	140.	0.	1908.	140.	0.	1908.	4400.	0.	0.	0.	.43	62.	15.4	B	19.9	4.8
10	3	6320.	324.	384.	2232.	324.	384.	2232.	5600.	0.	0.	0.	.40	62.	12.0	B	19.9	4.8
11	2	2050.	0.	0.	1848.	0.	0.	1848.	4100.	0.	0.	0.	.45	62.	14.9	B	19.9	4.8
12	3	2560.	452.	0.	2300.	452.	0.	2300.	5581.	19.	0.	0.	.41	62.	12.4	B	17.2	4.8
13	3	1400.	0.	388.	2300.	0.	388.	2300.	5581.	19.	0.	0.	.41	62.	12.4	B	32.3	4.8
14	2	1320.	0.	0.	1912.	0.	0.	1912.	4400.	0.	0.	0.	.43	62.	15.4	B	14.9	4.8
15	3	540.	724.	936.	2636.	724.	936.	2636.	5132.	468.	0.	0.	.51	62.	14.2	B	12.6	4.8
16	2	1230.	0.	0.	1700.	0.	0.	1700.	4400.	0.	0.	0.	.39	62.	13.7	B	19.9	4.8
17	2	890.	532.	0.	2232.	532.	0.	2232.	4400.	0.	0.	0.	.51	62.	18.0	B	19.9	4.8
18	3	4840.	200.	364.	2432.	200.	364.	2432.	5600.	0.	0.	0.	.43	62.	13.1	B	17.2	4.8
19	2	530.	0.	0.	2068.	0.	0.	2068.	3800.	0.	0.	0.	.54	62.	16.7	B	19.9	4.8
20	2	1040.	296.	0.	2364.	296.	0.	2364.	4400.	0.	0.	0.	.54	62.	19.1	C	19.9	4.8
21	3	2810.	372.	788.	2736.	372.	788.	2736.	5594.	6.	0.	0.	.49	62.	14.7	B	24.1	4.8
22	2	1850.	0.	0.	1948.	0.	0.	1948.	4400.	0.	0.	0.	.44	62.	15.7	B	17.2	4.8
23	3	2390.	196.	92.	2144.	196.	92.	2144.	5600.	0.	0.	0.	.38	62.	11.5	B	24.1	4.8
24	3	960.	0.	1132.	2052.	0.	1500.	2052.	5600.	0.	0.	0.	.37	62.	11.0	B	17.2	4.8
25	2	1400.	0.	920.	920.	0.	920.	920.	3600.	0.	0.	0.	.26	62.	7.4	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.54		LOWEST LOS = C	AVG = 62.	13.6		16.8	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	86. VEH-HRS	107. PASS-HRS	2981. VEH-HRS	3708. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	13. VEH-HRS	16. PASS-HRS	706. VEH-HRS	879. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	99. VEH-HRS	123. PASS-HRS	3687. VEH-HRS	4587. PASS-HRS
TOTAL TRAV DISTANCE =	5328. VEH-MI.	6628. PASS-MI.	169483. VEH-MI.	210837. PASS-MI.
AVERAGE SYSTEM SPEED =	54. MPH.		57. MPH.	
AVERAGE DENSITY =	14. VPMPL		24. VPMPL	
TOTAL FUEL =	321. GALLONS		10214. GALLONS	
TOTAL EMISSIONS =	26. KILOGRAMS		795. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	7.	13.15	4.98	0.08	0.47	0.08	0.63

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1392.	76.	1392.	1392.	76.	1392.	4100.	0.	0.	0.	.34	62.	11.2	B	13.6	4.8
2	2	1970.	0.	0.	1316.	0.	0.	1316.	4100.	0.	0.	0.	.32	62.	10.6	A	13.6	4.8
3	2	1830.	236.	108.	1552.	236.	108.	1552.	4100.	0.	0.	0.	.38	62.	12.5	B	13.6	4.8
4	2	2010.	0.	0.	1444.	0.	0.	1444.	4400.	0.	0.	0.	.33	62.	11.6	B	13.6	4.8
5	3	2445.	328.	412.	1772.	328.	412.	1772.	5600.	0.	0.	0.	.32	62.	9.5	A	13.6	4.8
6	2	1890.	0.	0.	1360.	0.	0.	1360.	4400.	0.	0.	0.	.31	62.	11.0	A	13.6	4.8
7	3	5320.	592.	408.	1952.	592.	408.	1952.	5600.	0.	0.	0.	.35	62.	10.5	A	13.6	4.8
8	2	880.	0.	0.	1544.	0.	0.	1544.	4400.	0.	0.	0.	.35	62.	12.5	B	14.9	4.8
9	2	1125.	128.	0.	1672.	128.	0.	1672.	4400.	0.	0.	0.	.38	62.	13.5	B	19.9	4.8
10	3	6320.	316.	304.	1988.	316.	304.	1988.	5600.	0.	0.	0.	.36	62.	10.7	A	19.9	4.8
11	2	2050.	0.	0.	1684.	0.	0.	1684.	4100.	0.	0.	0.	.41	62.	13.6	B	19.9	4.8
12	3	2560.	612.	0.	2296.	612.	0.	2296.	5584.	16.	0.	0.	.41	62.	12.3	B	17.2	4.8
13	3	1400.	0.	308.	2296.	0.	308.	2296.	5584.	16.	0.	0.	.41	62.	12.3	B	32.3	4.8
14	2	1320.	0.	0.	1988.	0.	0.	1988.	4400.	0.	0.	0.	.45	62.	16.0	B	14.9	4.8
15	3	540.	644.	1080.	2632.	644.	1080.	2632.	5220.	380.	0.	0.	.50	62.	14.2	B	12.6	4.8
16	2	1230.	0.	0.	1552.	0.	0.	1552.	4400.	0.	0.	0.	.35	62.	12.5	B	19.9	4.8
17	2	890.	684.	0.	2236.	684.	0.	2236.	4400.	0.	0.	0.	.51	62.	18.0	C	19.9	4.8
18	3	4840.	140.	420.	2376.	140.	420.	2376.	5600.	0.	0.	0.	.42	62.	12.8	B	17.2	4.8
19	2	530.	0.	0.	1956.	0.	0.	1956.	3800.	0.	0.	0.	.51	62.	15.8	B	19.9	4.8
20	2	1040.	260.	0.	2216.	260.	0.	2216.	4400.	0.	0.	0.	.50	62.	17.9	B	19.9	4.8
21	3	2810.	376.	612.	2592.	376.	612.	2592.	5596.	4.	0.	0.	.46	62.	13.9	B	24.1	4.8
22	2	1850.	0.	0.	1980.	0.	0.	1980.	4400.	0.	0.	0.	.45	62.	16.0	B	17.2	4.8
23	3	2390.	220.	120.	2200.	220.	120.	2200.	5600.	0.	0.	0.	.39	62.	11.8	B	24.1	4.8
24	3	960.	0.	1028.	2080.	0.	1028.	2080.	5600.	0.	0.	0.	.37	62.	11.2	B	17.2	4.8
25	2	1400.	0.	1052.	1052.	0.	1052.	1052.	3600.	0.	0.	0.	.29	62.	8.5	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.51		LOWEST LOS = C	AVG = 62.	12.2		17.1	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	77. VEH-HRS	96. PASS-HRS	3058. VEH-HRS	3805. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	1. VEH-HRS	1. PASS-HRS	707. VEH-HRS	880. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	78. VEH-HRS	97. PASS-HRS	3766. VEH-HRS	4684. PASS-HRS
TOTAL TRAV DISTANCE =	4790. VEH-MI.	5959. PASS-MI.	174273. VEH-MI.	216796. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		57. MPH.	
AVERAGE DENSITY =	12. VPMPL		23. VPMPL	
TOTAL FUEL =	280. GALLONS		10494. GALLONS	
TOTAL EMISSIONS =	23. KILOGRAMS		818. KILOGRAMS	

***** RAMP DELAYS *****

	QUEUE LENGTH VEHICLES	DELAY VEH-HRS	GAS GALS	HC KGMS	CO KGMS	NOX KGMS	TOTAL EMISSIONS KGMS
OFF-RAMP 11 OUTPUT POINT	0.	0.83	0.31	0.00	0.03	0.01	0.04

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1384.	64.	1384.	1384.	64.	1384.	4100.	0.	0.	0.	.34	62.	11.2	B	13.6	4.8
2	2	1970.	0.	0.	1320.	0.	0.	1320.	4100.	0.	0.	0.	.32	62.	10.6	A	13.6	4.8
3	2	1830.	164.	96.	1484.	164.	96.	1484.	4100.	0.	0.	0.	.36	62.	12.0	B	13.6	4.8
4	2	2010.	0.	0.	1388.	0.	0.	1388.	4400.	0.	0.	0.	.32	62.	11.2	B	13.6	4.8
5	3	2445.	256.	252.	1644.	256.	252.	1644.	5600.	0.	0.	0.	.29	62.	8.8	A	13.6	4.8
6	2	1890.	0.	0.	1392.	0.	0.	1392.	4400.	0.	0.	0.	.32	62.	11.2	B	13.6	4.8
7	3	5320.	316.	356.	1708.	316.	356.	1708.	5600.	0.	0.	0.	.30	62.	9.2	A	13.6	4.8
8	2	880.	0.	0.	1352.	0.	0.	1352.	4400.	0.	0.	0.	.31	62.	10.9	A	14.9	4.8
9	2	1125.	196.	0.	1548.	196.	0.	1548.	4400.	0.	0.	0.	.35	62.	12.5	B	19.9	4.8
10	3	6320.	352.	236.	1900.	352.	236.	1900.	5600.	0.	0.	0.	.34	62.	10.2	A	19.9	4.8
11	2	2050.	0.	0.	1664.	0.	0.	1664.	4100.	0.	0.	0.	.41	62.	13.4	B	19.9	4.8
12	3	2560.	576.	0.	2240.	576.	0.	2240.	5588.	12.	0.	0.	.40	62.	12.0	B	17.2	4.8
13	3	1400.	0.	236.	2240.	0.	236.	2240.	5588.	12.	0.	0.	.40	62.	12.0	B	32.3	4.8
14	2	1320.	0.	0.	2004.	0.	0.	2004.	4400.	0.	0.	0.	.46	62.	16.2	B	14.9	4.8
15	3	540.	556.	852.	2560.	556.	852.	2560.	5228.	372.	0.	0.	.49	62.	13.8	B	12.6	4.8
16	2	1230.	0.	0.	1708.	0.	0.	1708.	4400.	0.	0.	0.	.39	62.	13.8	B	19.9	4.8
17	2	890.	636.	0.	2344.	636.	0.	2344.	4400.	0.	0.	0.	.53	62.	18.9	C	19.9	4.8
18	3	4840.	208.	448.	2552.	208.	448.	2552.	5600.	0.	0.	0.	.46	62.	13.7	B	17.2	4.8
19	2	530.	0.	0.	2104.	0.	0.	2104.	3800.	0.	0.	0.	.55	62.	17.0	B	19.9	4.8
20	2	1040.	272.	0.	2376.	272.	0.	2376.	4400.	0.	0.	0.	.54	62.	19.2	C	19.9	4.8
21	3	2810.	352.	708.	2728.	352.	708.	2728.	5589.	11.	0.	0.	.49	62.	14.7	B	24.1	4.8
22	2	1850.	0.	0.	2020.	0.	0.	2020.	4400.	0.	0.	0.	.46	62.	16.3	B	17.2	4.8
23	3	2390.	228.	68.	2248.	228.	68.	2248.	5600.	0.	0.	0.	.40	62.	12.1	B	24.1	4.8
24	3	960.	0.	904.	2180.	0.	904.	2180.	5600.	0.	0.	0.	.39	62.	11.7	B	17.2	4.8
25	2	1400.	0.	1276.	1276.	0.	1276.	1276.	3600.	0.	0.	0.	.35	62.	10.3	A	19.9	4.8

TOTAL 53000. = 10.0 MILES MAX(V/C) = 0.55 LOWEST LOS = C AVG = 62. 12.1 17.2 4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	77. VEH-HRS	96. PASS-HRS	3135. VEH-HRS	3900. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	707. VEH-HRS	880. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	77. VEH-HRS	96. PASS-HRS	3842. VEH-HRS	4780. PASS-HRS
TOTAL TRAV DISTANCE =	4762. VEH-MI.	5924. PASS-MI.	179035. VEH-MI.	222720. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		57. MPH.	
AVERAGE DENSITY =	12. VPMPL		22. VPMPL	
TOTAL FUEL =	277. GALLONS		10771. GALLONS	
TOTAL EMISSIONS =	23. KILOGRAMS		840. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1044.	84.	1044.	1044.	84.	1044.	4100.	0.	0.	0.	.25	62.	8.4	A	13.6	4.8
2	2	1970.	0.	0.	960.	0.	0.	960.	4100.	0.	0.	0.	.23	62.	7.7	A	13.6	4.8
3	2	1830.	172.	56.	1132.	172.	56.	1132.	4100.	0.	0.	0.	.28	62.	9.1	A	13.6	4.8
4	2	2010.	0.	0.	1076.	0.	0.	1076.	4400.	0.	0.	0.	.24	62.	8.7	A	13.6	4.8
5	3	2445.	308.	164.	1384.	308.	164.	1384.	5600.	0.	0.	0.	.25	62.	7.4	A	13.6	4.8
6	2	1890.	0.	0.	1220.	0.	0.	1220.	4400.	0.	0.	0.	.28	62.	9.8	A	13.6	4.8
7	3	5320.	392.	404.	1612.	392.	404.	1612.	5600.	0.	0.	0.	.29	62.	8.7	A	13.6	4.8
8	2	880.	0.	0.	1208.	0.	0.	1208.	4400.	0.	0.	0.	.27	62.	9.7	A	14.9	4.8
9	2	1125.	160.	0.	1368.	160.	0.	1368.	4400.	0.	0.	0.	.31	62.	11.0	B	19.9	4.8
10	3	6320.	292.	176.	1660.	292.	176.	1660.	5600.	0.	0.	0.	.30	62.	8.9	A	19.9	4.8
11	2	2050.	0.	0.	1484.	0.	0.	1484.	4100.	0.	0.	0.	.36	62.	12.0	B	19.9	4.8
12	3	2560.	444.	0.	1928.	444.	0.	1928.	5600.	0.	0.	0.	.34	62.	10.4	A	17.2	4.8
13	3	1400.	0.	244.	1928.	0.	244.	1928.	5600.	0.	0.	0.	.34	62.	10.4	A	32.3	4.8
14	2	1320.	0.	0.	1684.	0.	0.	1684.	4400.	0.	0.	0.	.38	62.	13.6	B	14.9	4.8
15	3	540.	588.	868.	2272.	588.	868.	2272.	5236.	364.	0.	0.	.43	62.	12.2	B	12.6	4.8
16	2	1230.	0.	0.	1404.	0.	0.	1404.	4400.	0.	0.	0.	.32	62.	11.3	B	19.9	4.8
17	2	890.	452.	0.	1856.	452.	0.	1856.	4400.	0.	0.	0.	.42	62.	15.0	B	19.9	4.8
18	3	4840.	188.	308.	2044.	188.	308.	2044.	5600.	0.	0.	0.	.37	62.	11.0	A	17.2	4.8
19	2	530.	0.	0.	1736.	0.	0.	1736.	3800.	0.	0.	0.	.46	62.	14.0	B	19.9	4.8
20	2	1040.	300.	0.	2036.	300.	0.	2036.	4400.	0.	0.	0.	.46	62.	16.4	B	19.9	4.8
21	3	2810.	260.	676.	2296.	260.	676.	2296.	5600.	0.	0.	0.	.41	62.	12.3	B	24.1	4.8
22	2	1850.	0.	0.	1620.	0.	0.	1620.	4400.	0.	0.	0.	.37	62.	13.1	B	17.2	4.8
23	3	2390.	212.	72.	1832.	212.	72.	1832.	5600.	0.	0.	0.	.33	62.	9.8	A	24.1	4.8
24	3	960.	0.	868.	1760.	0.	868.	1760.	5600.	0.	0.	0.	.31	62.	9.5	A	17.2	4.8
25	2	1400.	0.	892.	892.	0.	892.	892.	3600.	0.	0.	0.	.25	62.	7.2	A	19.9	4.8
TOTAL		53000. =	10.0 MILES							MAX(V/C) = 0.46	LOWEST LOS = B		AVG = 62.		10.1		17.2	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	3199. VEH-HRS	3980. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	707. VEH-HRS	880. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	64. VEH-HRS	80. PASS-HRS	3907. VEH-HRS	4860. PASS-HRS
TOTAL TRAV DISTANCE =	3988. VEH-MI.	4962. PASS-MI.	183024. VEH-MI.	227682. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		57. MPH.	
AVERAGE DENSITY =	10. VPMPL		22. VPMPL	
TOTAL FUEL =	232. GALLONS		11003. GALLONS	
TOTAL EMISSIONS =	19. KILOGRAMS		859. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	3400.	1032.	64.	1032.	1032.	64.	1032.	4100.	0.	0.	0.	.25	62.	8.3	A	13.6	4.8
2	2	1970.	0.	0.	968.	0.	0.	968.	4100.	0.	0.	0.	.24	62.	7.8	A	13.6	4.8
3	2	1830.	108.	64.	1076.	108.	64.	1076.	4100.	0.	0.	0.	.26	62.	8.7	A	13.6	4.8
4	2	2010.	0.	0.	1012.	0.	0.	1012.	4400.	0.	0.	0.	.23	62.	8.2	A	13.6	4.8
5	3	2445.	132.	200.	1144.	132.	200.	1144.	5600.	0.	0.	0.	.20	62.	6.2	A	13.6	4.8
6	2	1890.	0.	0.	944.	0.	0.	944.	4400.	0.	0.	0.	.21	62.	7.6	A	13.6	4.8
7	3	5320.	312.	284.	1256.	312.	284.	1256.	5600.	0.	0.	0.	.22	62.	6.8	A	13.6	4.8
8	2	880.	0.	0.	972.	0.	0.	972.	4400.	0.	0.	0.	.22	62.	7.8	A	14.9	4.8
9	2	1125.	108.	0.	1080.	108.	0.	1080.	4400.	0.	0.	0.	.25	62.	8.7	A	19.9	4.8
10	3	6320.	160.	148.	1240.	160.	148.	1240.	5600.	0.	0.	0.	.22	62.	6.7	A	19.9	4.8
11	2	2050.	0.	0.	1092.	0.	0.	1092.	4100.	0.	0.	0.	.27	62.	8.8	A	19.9	4.8
12	3	2560.	444.	0.	1536.	444.	0.	1536.	5600.	0.	0.	0.	.27	62.	8.3	A	17.2	4.8
13	3	1400.	0.	224.	1536.	0.	224.	1536.	5600.	0.	0.	0.	.27	62.	8.3	A	32.3	4.8
14	2	1320.	0.	0.	1312.	0.	0.	1312.	4400.	0.	0.	0.	.30	62.	10.6	A	14.9	4.8
15	3	540.	480.	704.	1792.	480.	704.	1792.	5308.	292.	0.	0.	.34	62.	9.6	A	12.6	4.8
16	2	1230.	0.	0.	1088.	0.	0.	1088.	4400.	0.	0.	0.	.25	62.	8.8	A	19.9	4.8
17	2	890.	448.	0.	1536.	448.	0.	1536.	4400.	0.	0.	0.	.35	62.	12.4	B	19.9	4.8
18	3	4840.	120.	204.	1656.	120.	204.	1656.	5600.	0.	0.	0.	.30	62.	8.9	A	17.2	4.8
19	2	530.	0.	0.	1452.	0.	0.	1452.	3800.	0.	0.	0.	.38	62.	11.7	B	19.9	4.8
20	2	1040.	256.	0.	1708.	256.	0.	1708.	4400.	0.	0.	0.	.39	62.	13.8	B	19.9	4.8
21	3	2810.	224.	520.	1932.	224.	520.	1932.	5600.	0.	0.	0.	.34	62.	10.4	A	24.1	4.8
22	2	1850.	0.	0.	1412.	0.	0.	1412.	4400.	0.	0.	0.	.32	62.	11.4	B	17.2	4.8
23	3	2390.	172.	28.	1584.	172.	28.	1584.	5600.	0.	0.	0.	.28	62.	8.5	A	24.1	4.8
24	3	960.	0.	812.	1556.	0.	812.	1556.	5600.	0.	0.	0.	.28	62.	8.4	A	17.2	4.8
25	2	1400.	0.	744.	744.	0.	744.	744.	3600.	0.	0.	0.	.21	62.	6.0	A	19.9	4.8
TOTAL		53000. =	10.0 MILES								MAX(V/C) = 0.39		LOWEST LOS = B	AVG = 62.	8.3		17.1	4.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	53. VEH-HRS	66. PASS-HRS	3252. VEH-HRS	4046. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	707. VEH-HRS	880. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	53. VEH-HRS	66. PASS-HRS	3960. VEH-HRS	4926. PASS-HRS
TOTAL TRAV DISTANCE =	3278. VEH-MI.	4078. PASS-MI.	186302. VEH-MI.	231760. PASS-MI.
AVERAGE SYSTEM SPEED =	62. MPH.		57. MPH.	
AVERAGE DENSITY =	8. VPMPL		21. VPMPL	
TOTAL FUEL =	191. GALLONS		11194. GALLONS	
TOTAL EMISSIONS =	16. KILOGRAMS		875. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	161.	200.	0.	0.	161.	200.	9548.	11878.	59.4	545.	2.	26.	12.	6:00
2	177.	221.	0.	0.	177.	221.	9618.	11965.	54.2	555.	2.	27.	12.	6:15
3	196.	244.	3.	4.	199.	248.	9970.	12403.	50.0	579.	2.	28.	12.	6:30
4	181.	225.	12.	15.	193.	240.	9174.	11412.	47.5	547.	2.	29.	11.	6:45
5	195.	243.	16.	20.	211.	263.	9634.	11984.	45.6	576.	2.	30.	12.	7:00
6	192.	239.	16.	20.	208.	259.	9375.	11662.	45.0	556.	2.	29.	11.	7:15
7	198.	246.	18.	23.	216.	269.	9727.	12100.	45.1	572.	2.	28.	11.	7:30
8	174.	217.	25.	31.	199.	248.	9427.	11727.	47.4	558.	2.	29.	12.	7:45
9	145.	181.	31.	39.	177.	220.	8951.	11135.	50.7	537.	2.	29.	12.	8:00
10	137.	171.	31.	38.	168.	209.	8509.	10586.	50.6	517.	2.	29.	11.	8:15
11	147.	183.	33.	41.	181.	225.	9086.	11303.	50.3	548.	2.	29.	12.	8:30
12	137.	170.	43.	53.	179.	223.	8465.	10530.	47.2	517.	2.	29.	11.	8:45
13	156.	195.	57.	71.	213.	265.	9492.	11808.	44.5	569.	2.	30.	12.	9:00
14	140.	174.	71.	88.	210.	262.	8629.	10735.	41.0	540.	2.	30.	11.	9:15
15	136.	169.	82.	101.	218.	271.	8431.	10488.	38.7	531.	2.	30.	11.	9:30
16	119.	148.	81.	100.	199.	248.	7353.	9147.	36.9	469.	2.	27.	10.	9:45
17	103.	128.	73.	91.	176.	219.	6382.	7939.	36.2	404.	2.	24.	9.	10:00
18	101.	126.	63.	78.	164.	204.	6285.	7818.	38.3	397.	1.	23.	9.	10:15
19	98.	122.	40.	49.	138.	172.	6101.	7590.	44.2	376.	1.	22.	8.	10:30
20	86.	107.	13.	16.	99.	123.	5328.	6628.	53.8	321.	1.	18.	7.	10:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	77.	96.	1.	1.	78.	97.	4790.	5959.	61.3	280.	1.	16.	6.	11:00
22	77.	96.	0.	0.	77.	96.	4762.	5924.	62.0	277.	1.	16.	6.	11:15
23	64.	80.	0.	0.	64.	80.	3988.	4962.	62.0	232.	1.	13.	5.	11:30
24	53.	66.	0.	0.	53.	66.	3278.	4078.	62.0	191.	1.	11.	4.	11:45
TOTAL	3252.	4046.	707.	880.	3960.	4926.	186302.	231760.	57.3	11194.	38.	600.	238.	

Horizon Year (2045) Final Build
(Aux Lanes and BOS)
Southbound AM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	880.	0.	880.	880.	0.	880.	3850.	0.	0.	0.	.23	50.	8.8	A	17.4	2.3
2	2	2070.	260.	0.	1140.	260.	0.	1140.	3850.	0.	0.	0.	.30	50.	11.4	B	15.9	2.3
3	3	2300.	360.	52.	1500.	360.	52.	1500.	5700.	0.	0.	0.	.26	55.	9.1	A	14.0	2.4
4	3	1020.	0.	0.	1448.	0.	0.	1448.	5700.	0.	0.	0.	.25	62.	7.8	A	19.9	4.8
5	3	710.	108.	0.	1556.	108.	0.	1556.	5700.	0.	0.	0.	.27	62.	8.4	A	16.1	4.4
6	3	3820.	72.	200.	1628.	72.	200.	1628.	6150.	0.	0.	0.	.26	62.	8.8	A	17.1	4.8
7	2	1220.	0.	0.	1428.	0.	0.	1428.	4400.	0.	0.	0.	.32	62.	11.5	B	18.2	4.4
8	3	4810.	204.	132.	1632.	204.	132.	1632.	6100.	0.	0.	0.	.27	62.	8.8	A	20.6	4.4
9	2	1370.	0.	0.	1500.	0.	0.	1500.	4000.	0.	0.	0.	.38	62.	12.1	B	23.6	4.4
10	2	660.	96.	0.	1596.	96.	0.	1596.	4398.	2.	0.	0.	.36	62.	12.9	B	23.6	4.4
11	3	790.	212.	104.	1808.	212.	104.	1808.	6098.	2.	0.	0.	.30	62.	9.7	A	30.0	4.4
12	2	1460.	0.	0.	1704.	0.	0.	1704.	4100.	0.	0.	0.	.42	62.	13.7	B	20.6	4.4
13	3	1400.	112.	0.	1816.	112.	0.	1816.	6097.	3.	0.	0.	.30	62.	9.8	A	13.6	4.4
14	3	2600.	0.	44.	1816.	0.	44.	1816.	6097.	3.	0.	0.	.30	62.	9.8	A	20.6	4.4
15	2	2010.	0.	0.	1772.	0.	0.	1772.	3900.	0.	0.	0.	.45	62.	14.3	B	14.7	4.4
16	3	6120.	136.	88.	1908.	136.	88.	1908.	6100.	0.	0.	0.	.31	62.	10.3	A	18.2	4.4
17	2	1240.	0.	0.	1820.	0.	0.	1820.	4300.	0.	0.	0.	.42	62.	14.7	B	18.2	4.4
18	3	930.	56.	0.	1876.	56.	0.	1876.	6100.	0.	0.	0.	.31	62.	10.1	A	20.6	4.4
19	3	5330.	64.	64.	1940.	64.	64.	1940.	6100.	0.	0.	0.	.32	62.	10.4	A	20.6	4.4
20	2	2830.	0.	0.	1876.	0.	0.	1876.	3800.	0.	0.	0.	.49	61.	15.4	B	21.1	3.8
21	3	1660.	160.	140.	2036.	160.	140.	2036.	6100.	0.	0.	0.	.33	61.	11.1	B	21.1	3.8
22	2	2270.	0.	0.	1896.	0.	0.	1896.	4400.	0.	0.	0.	.43	62.	15.3	B	20.6	4.4
23	2	3040.	20.	56.	1916.	20.	56.	1916.	4100.	0.	0.	0.	.47	62.	15.5	B	20.6	4.4
24	2	2190.	0.	0.	1860.	0.	0.	1860.	4200.	0.	0.	0.	.44	65.	14.3	B	19.2	6.1
25	3	2400.	56.	1916.	1916.	56.	1916.	1916.	6150.	0.	0.	0.	.31	65.	9.8	A	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.49		LOWEST LOS = B	AVG = 61.	11.3		18.9	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	74. VEH-HRS	86. PASS-HRS	74. VEH-HRS	86. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	74. VEH-HRS	86. PASS-HRS	74. VEH-HRS	86. PASS-HRS
TOTAL TRAV DISTANCE =	4545. VEH-MI.	5273. PASS-MI.	4545. VEH-MI.	5273. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	11. VPMPL		11. VPMPL	
TOTAL FUEL =	241. GALLONS		241. GALLONS	
TOTAL EMISSIONS =	20. KILOGRAMS		20. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1260.	0.	1260.	1260.	0.	1260.	3850.	0.	0.	0.	.33	50.	12.6	B	17.4	2.3
2	2	2070.	268.	0.	1528.	268.	0.	1528.	3850.	0.	0.	0.	.40	50.	15.3	B	15.9	2.3
3	3	2300.	536.	52.	2064.	536.	52.	2064.	5700.	0.	0.	0.	.36	55.	12.5	B	14.0	2.4
4	3	1020.	0.	0.	2012.	0.	0.	2012.	5700.	0.	0.	0.	.35	62.	10.8	A	19.9	4.8
5	3	710.	64.	0.	2076.	64.	0.	2076.	5700.	0.	0.	0.	.36	62.	11.2	B	16.1	4.4
6	3	3820.	88.	220.	2164.	88.	220.	2164.	6150.	0.	0.	0.	.35	62.	11.6	B	17.1	4.8
7	2	1220.	0.	0.	1944.	0.	0.	1944.	4400.	0.	0.	0.	.44	62.	15.7	B	18.2	4.4
8	3	4810.	188.	148.	2132.	188.	148.	2132.	6100.	0.	0.	0.	.35	62.	11.5	B	20.6	4.4
9	2	1370.	0.	0.	1984.	0.	0.	1984.	4000.	0.	0.	0.	.50	62.	16.0	B	23.6	4.4
10	2	660.	52.	0.	2036.	52.	0.	2036.	4398.	2.	0.	0.	.46	62.	16.4	B	23.6	4.4
11	3	790.	160.	116.	2196.	160.	116.	2196.	6098.	2.	0.	0.	.36	62.	11.8	B	30.0	4.4
12	2	1460.	0.	0.	2080.	0.	0.	2080.	4100.	0.	0.	0.	.51	62.	16.8	B	20.6	4.4
13	3	1400.	124.	0.	2204.	124.	0.	2204.	6096.	4.	0.	0.	.36	62.	11.8	B	13.6	4.4
14	3	2600.	0.	52.	2204.	0.	52.	2204.	6096.	4.	0.	0.	.36	62.	11.8	B	20.6	4.4
15	2	2010.	0.	0.	2152.	0.	0.	2152.	3900.	0.	0.	0.	.55	62.	17.4	B	14.7	4.4
16	3	6120.	120.	132.	2272.	120.	132.	2272.	6100.	0.	0.	0.	.37	62.	12.2	B	18.2	4.4
17	2	1240.	0.	0.	2140.	0.	0.	2140.	4300.	0.	0.	0.	.50	62.	17.3	B	18.2	4.4
18	3	930.	88.	0.	2228.	88.	0.	2228.	6100.	0.	0.	0.	.37	62.	12.0	B	20.6	4.4
19	3	5330.	84.	80.	2312.	84.	80.	2312.	6100.	0.	0.	0.	.38	62.	12.4	B	20.6	4.4
20	2	2830.	0.	0.	2232.	0.	0.	2232.	3800.	0.	0.	0.	.59	61.	18.3	C	21.1	3.8
21	3	1660.	148.	116.	2380.	148.	116.	2380.	6100.	0.	0.	0.	.39	61.	13.0	B	21.1	3.8
22	2	2270.	0.	0.	2264.	0.	0.	2264.	4400.	0.	0.	0.	.51	62.	18.3	C	20.6	4.4
23	2	3040.	64.	88.	2328.	64.	88.	2328.	4100.	0.	0.	0.	.57	62.	18.8	C	20.6	4.4
24	2	2190.	0.	0.	2240.	0.	0.	2240.	4200.	0.	0.	0.	.53	65.	17.2	B	19.2	6.1
25	3	2400.	76.	2316.	2316.	76.	2316.	2316.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.59		LOWEST LOS = C	AVG = 61.	14.0		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	92. VEH-HRS	106. PASS-HRS	166. VEH-HRS	192. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	92. VEH-HRS	106. PASS-HRS	166. VEH-HRS	192. PASS-HRS
TOTAL TRAV DISTANCE =	5627. VEH-MI.	6527. PASS-MI.	10172. VEH-MI.	11800. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	14. VPMPL		13. VPMPL	
TOTAL FUEL =	299. GALLONS		539. GALLONS	
TOTAL EMISSIONS =	25. KILOGRAMS		45. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1804.	0.	1804.	1804.	0.	1804.	3850.	0.	0.	0.	.47	50.	18.0	C	17.4	2.3
2	2	2070.	372.	0.	2176.	372.	0.	2176.	3848.	2.	0.	0.	.57	50.	21.8	C	15.9	2.3
3	3	2300.	744.	80.	2920.	744.	80.	2920.	5688.	12.	0.	0.	.51	55.	17.7	B	14.0	2.4
4	3	1020.	0.	0.	2840.	0.	0.	2840.	5700.	0.	0.	0.	.50	62.	15.3	B	19.9	4.8
5	3	710.	120.	0.	2960.	120.	0.	2960.	5700.	0.	0.	0.	.52	62.	15.9	B	16.1	4.4
6	3	3820.	136.	416.	3096.	136.	416.	3096.	6150.	0.	0.	0.	.50	62.	16.6	B	17.1	4.8
7	2	1220.	0.	0.	2680.	0.	0.	2680.	4400.	0.	0.	0.	.61	62.	21.6	C	18.2	4.4
8	3	4810.	292.	220.	2972.	292.	220.	2972.	6100.	0.	0.	0.	.49	62.	16.0	B	20.6	4.4
9	2	1370.	0.	0.	2752.	0.	0.	2752.	4000.	0.	0.	0.	.69	62.	22.2	C	23.6	4.4
10	2	660.	112.	0.	2864.	112.	0.	2864.	4398.	2.	0.	0.	.65	62.	23.1	C	23.6	4.4
11	3	790.	344.	156.	3208.	344.	156.	3208.	6042.	58.	0.	0.	.53	62.	17.2	B	30.0	4.4
12	2	1460.	0.	0.	3052.	0.	0.	3052.	4100.	0.	0.	0.	.74	62.	24.6	C	20.6	4.4
13	3	1400.	240.	0.	3292.	240.	0.	3292.	6092.	8.	0.	0.	.54	62.	17.7	B	13.6	4.4
14	3	2600.	0.	96.	3292.	0.	96.	3292.	6092.	8.	0.	0.	.54	62.	17.7	B	20.6	4.4
15	2	2010.	0.	0.	3196.	0.	0.	3196.	3900.	0.	0.	0.	.82	61.	26.4	D	15.1	3.5
16	3	6120.	132.	120.	3328.	132.	120.	3328.	6100.	0.	0.	0.	.55	62.	17.9	B	18.2	4.4
17	2	1240.	0.	0.	3208.	0.	0.	3208.	4300.	0.	0.	0.	.75	62.	26.0	C	18.3	4.2
18	3	930.	140.	0.	3348.	140.	0.	3348.	6100.	0.	0.	0.	.55	62.	18.0	B	20.6	4.4
19	3	5330.	92.	120.	3440.	92.	120.	3440.	6098.	2.	0.	0.	.56	62.	18.5	C	20.6	4.4
20	2	2830.	0.	0.	3320.	0.	0.	3320.	3800.	0.	0.	0.	.87	58.	28.4	D	22.1	2.8
21	3	1660.	160.	192.	3480.	160.	192.	3480.	6100.	0.	0.	0.	.57	61.	19.0	C	21.1	3.8
22	2	2270.	0.	0.	3288.	0.	0.	3288.	4400.	0.	0.	0.	.75	62.	26.6	D	20.7	4.2
23	2	3040.	96.	56.	3384.	96.	56.	3384.	4100.	0.	0.	0.	.83	60.	28.0	D	21.4	3.4
24	2	2190.	0.	0.	3328.	0.	0.	3328.	4200.	0.	0.	0.	.79	63.	26.3	D	19.9	5.1
25	3	2400.	84.	3412.	3412.	84.	3412.	3412.	6150.	0.	0.	0.	.55	65.	17.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.87		LOWEST LOS = D	AVG = 61.	20.5		19.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	156. PASS-HRS	300. VEH-HRS	348. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	156. PASS-HRS	300. VEH-HRS	348. PASS-HRS
TOTAL TRAV DISTANCE =	8189. VEH-MI.	9499. PASS-MI.	18361. VEH-MI.	21299. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		15. VPMPL	
TOTAL FUEL =	431. GALLONS		971. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		79. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2376.	0.	2376.	2376.	0.	2376.	3850.	0.	0.	0.	.62	50.	23.8	C	17.4	2.3
2	2	2070.	496.	0.	2872.	496.	0.	2872.	3844.	6.	0.	0.	.75	50.	28.7	D	15.9	2.3
3	3	2300.	880.	108.	3752.	880.	108.	3752.	5655.	45.	0.	0.	.66	55.	22.7	C	14.0	2.4
4	3	1020.	0.	0.	3644.	0.	0.	3644.	5700.	0.	0.	0.	.64	62.	19.6	C	19.9	4.8
5	3	710.	168.	0.	3812.	168.	0.	3812.	5700.	0.	0.	0.	.67	62.	20.5	C	16.1	4.4
6	3	3820.	260.	688.	4072.	260.	688.	4072.	6150.	0.	0.	0.	.66	62.	21.9	C	17.1	4.8
7	2	1220.	0.	0.	3384.	0.	0.	3384.	4400.	0.	0.	0.	.77	61.	27.5	D	18.4	4.1
8	3	4810.	344.	340.	3728.	344.	340.	3728.	6100.	0.	0.	0.	.61	62.	20.0	C	20.6	4.4
9	2	1370.	0.	0.	3388.	0.	0.	3388.	4000.	0.	0.	0.	.85	60.	28.3	D	24.8	3.1
10	2	660.	128.	0.	3516.	128.	0.	3516.	4395.	5.	0.	0.	.80	61.	28.8	D	24.2	3.8
11	3	790.	364.	356.	3880.	364.	356.	3880.	5818.	282.	0.	0.	.67	62.	20.9	C	30.0	4.4
12	2	1460.	0.	0.	3524.	0.	0.	3524.	4100.	0.	0.	0.	.86	59.	29.6	D	21.8	3.1
13	3	1400.	244.	0.	3768.	244.	0.	3768.	6084.	16.	0.	0.	.62	62.	20.3	C	13.6	4.4
14	3	2600.	0.	232.	3768.	0.	232.	3768.	6084.	16.	0.	0.	.62	62.	20.3	C	20.6	4.4
15	2	2010.	0.	0.	3536.	0.	0.	3536.	3900.	0.	0.	0.	.91	58.	30.7	D	15.8	2.6
16	3	6120.	276.	228.	3812.	276.	228.	3812.	6100.	0.	0.	0.	.62	62.	20.5	C	18.2	4.4
17	2	1240.	0.	0.	3584.	0.	0.	3584.	4300.	0.	0.	0.	.83	60.	29.8	D	18.9	3.3
18	3	930.	180.	0.	3764.	180.	0.	3764.	6100.	0.	0.	0.	.62	62.	20.2	C	20.6	4.4
19	3	5330.	156.	144.	3920.	156.	144.	3920.	6095.	5.	0.	0.	.64	62.	21.1	C	20.6	4.4
20	2	2830.	0.	0.	3776.	0.	0.	3776.	3800.	0.	0.	0.	.99	52.	36.4	E	23.9	2.0
21	3	1660.	356.	404.	4132.	356.	404.	4132.	6100.	0.	0.	0.	.68	61.	22.6	C	21.1	3.8
22	2	2270.	0.	0.	3728.	0.	0.	3728.	4400.	0.	0.	0.	.85	60.	31.2	D	21.7	3.1
23	2	3040.	112.	100.	3840.	112.	100.	3840.	4100.	0.	0.	0.	.94	56.	34.3	D	22.8	2.2
24	2	2190.	0.	0.	3740.	0.	0.	3740.	4200.	0.	0.	0.	.89	60.	31.3	D	21.7	3.1
25	3	2400.	92.	3832.	3832.	92.	3832.	3832.	6150.	0.	0.	0.	.62	65.	19.7	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.99		LOWEST LOS = E	AVG = 60.	24.8		19.3	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	162. VEH-HRS	188. PASS-HRS	462. VEH-HRS	536. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	162. VEH-HRS	188. PASS-HRS	462. VEH-HRS	536. PASS-HRS
TOTAL TRAV DISTANCE =	9678. VEH-MI.	11226. PASS-MI.	28039. VEH-MI.	32525. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	25. VPMPL		18. VPMPL	
TOTAL FUEL =	502. GALLONS		1473. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		116. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST STORAGE LENGTH	RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1124.	0.	1124.	1124.	0.	1124.	3850.	0.	0.	0.	.29	50.	11.2	B	17.4	2.3
2	2	2070.	636.	0.	1760.	636.	0.	1760.	3850.	0.	0.	0.	.46	50.	17.6	B	15.9	2.3
3	3	2300.	1088.	172.	2848.	1088.	172.	2848.	5619.	81.	0.	0.	.51	55.	17.3	B	14.0	2.4
4	3	1020.	0.	0.	2676.	0.	0.	2676.	5700.	0.	0.	0.	.47	62.	14.4	B	19.9	4.8
5	3	710.	176.	0.	2852.	176.	0.	2852.	5700.	0.	0.	0.	.50	62.	15.3	B	16.1	4.4
6	3	3820.	364.	628.	3216.	364.	628.	3216.	6150.	0.	0.	0.	.52	62.	17.3	B	17.1	4.8
7	2	1220.	0.	0.	2588.	0.	0.	2588.	4400.	0.	0.	0.	.59	62.	20.9	C	18.2	4.4
8	3	4810.	444.	376.	3032.	444.	376.	3032.	6100.	0.	0.	0.	.50	62.	16.3	B	20.6	4.4
9	2	1370.	0.	0.	2656.	0.	0.	2656.	4000.	0.	0.	0.	.66	62.	21.4	C	23.6	4.4
10	2	660.	140.	0.	2796.	140.	0.	2796.	4391.	9.	0.	0.	.64	62.	22.5	C	23.6	4.4
11	3	790.	568.	488.	3364.	568.	488.	3364.	5685.	415.	0.	0.	.59	62.	18.1	C	30.0	4.4
12	2	1460.	0.	0.	2876.	0.	0.	2876.	4100.	0.	0.	0.	.70	62.	23.2	C	20.6	4.4
13	3	1400.	352.	0.	3228.	352.	0.	3228.	6076.	24.	0.	0.	.53	62.	17.4	B	13.6	4.4
14	3	2600.	0.	236.	3228.	0.	236.	3228.	6076.	24.	0.	0.	.53	62.	17.4	B	20.6	4.4
15	2	2010.	0.	0.	2992.	0.	0.	2992.	3900.	0.	0.	0.	.77	62.	24.1	C	14.7	4.4
16	3	6120.	300.	324.	3292.	300.	324.	3292.	6100.	0.	0.	0.	.54	62.	17.7	B	18.2	4.4
17	2	1240.	0.	0.	2968.	0.	0.	2968.	4300.	0.	0.	0.	.69	62.	23.9	C	18.2	4.4
18	3	930.	248.	0.	3216.	248.	0.	3216.	6100.	0.	0.	0.	.53	62.	17.3	B	20.6	4.4
19	3	5330.	216.	268.	3432.	216.	268.	3432.	6091.	9.	0.	0.	.56	62.	18.5	C	20.6	4.4
20	2	2830.	0.	0.	3164.	0.	0.	3164.	3800.	0.	0.	0.	.83	60.	26.6	D	21.7	3.1
21	3	1660.	588.	452.	3752.	588.	452.	3752.	5929.	171.	0.	0.	.63	61.	20.5	C	21.1	3.8
22	2	2270.	0.	0.	3300.	0.	0.	3300.	4400.	0.	0.	0.	.75	62.	26.7	D	20.7	4.2
23	2	3040.	144.	128.	3444.	144.	128.	3444.	4100.	0.	0.	0.	.84	60.	28.7	D	21.6	3.2
24	2	2190.	0.	0.	3316.	0.	0.	3316.	4200.	0.	0.	0.	.79	63.	26.2	D	19.9	5.2
25	3	2400.	120.	3436.	3436.	120.	3436.	3436.	6150.	0.	0.	0.	.56	65.	17.6	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.84		LOWEST LOS = D	AVG = 61.	20.0		19.0	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	132. VEH-HRS	153. PASS-HRS	594. VEH-HRS	689. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	132. VEH-HRS	153. PASS-HRS	594. VEH-HRS	689. PASS-HRS
TOTAL TRAV DISTANCE =	8076. VEH-MI.	9368. PASS-MI.	36115. VEH-MI.	41893. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		61. MPH.	
AVERAGE DENSITY =	20. VPMPL		18. VPMPL	
TOTAL FUEL =	425. GALLONS		1898. GALLONS	
TOTAL EMISSIONS =	34. KILOGRAMS		150. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1372.	0.	1372.	1372.	0.	1372.	3850.	0.	0.	0.	.36	50.	13.7	B	17.4	2.3
2	2	2070.	780.	0.	2152.	780.	0.	2152.	3850.	0.	0.	0.	.56	50.	21.5	C	15.9	2.3
3	3	2300.	1460.	248.	3612.	1460.	248.	3612.	5552.	148.	0.	0.	.65	55.	21.9	C	14.0	2.4
4	3	1020.	0.	0.	3364.	0.	0.	3364.	5700.	0.	0.	0.	.59	62.	18.1	C	19.9	4.8
5	3	710.	248.	0.	3612.	248.	0.	3612.	5700.	0.	0.	0.	.63	62.	19.4	C	16.1	4.4
6	3	3820.	360.	876.	3972.	360.	876.	3972.	6150.	0.	0.	0.	.65	62.	21.4	C	17.1	4.8
7	2	1220.	0.	0.	3096.	0.	0.	3096.	4400.	0.	0.	0.	.70	62.	25.0	C	18.2	4.3
8	3	4810.	500.	396.	3596.	500.	396.	3596.	6100.	0.	0.	0.	.59	62.	19.3	C	20.6	4.4
9	2	1370.	0.	0.	3200.	0.	0.	3200.	4000.	0.	0.	0.	.80	61.	26.2	D	24.2	3.8
10	2	660.	184.	0.	3384.	184.	0.	3384.	4387.	13.	0.	0.	.77	61.	27.5	D	23.9	4.0
11	3	790.	520.	564.	3904.	520.	564.	3904.	5641.	459.	0.	0.	.69	62.	21.0	C	30.0	4.4
12	2	1460.	0.	0.	3340.	0.	0.	3340.	4100.	0.	0.	0.	.81	61.	27.5	D	21.2	3.6
13	3	1400.	448.	0.	3788.	448.	0.	3788.	6040.	60.	0.	0.	.63	62.	20.4	C	13.6	4.4
14	3	2600.	0.	512.	3788.	0.	512.	3788.	6040.	60.	0.	0.	.63	62.	20.4	C	20.6	4.4
15	2	2010.	0.	0.	3276.	0.	0.	3276.	3900.	0.	0.	0.	.84	60.	27.3	D	15.3	3.2
16	3	6120.	420.	352.	3696.	420.	352.	3696.	6100.	0.	0.	0.	.61	62.	19.9	C	18.2	4.4
17	2	1240.	0.	0.	3344.	0.	0.	3344.	4300.	0.	0.	0.	.78	61.	27.2	D	18.4	4.0
18	3	930.	360.	0.	3704.	360.	0.	3704.	6100.	0.	0.	0.	.61	62.	19.9	C	20.6	4.4
19	3	5330.	184.	348.	3888.	184.	348.	3888.	6082.	18.	0.	0.	.64	62.	20.9	C	20.6	4.4
20	2	2830.	0.	0.	3540.	0.	0.	3540.	3800.	0.	0.	0.	.93	56.	31.7	D	22.9	2.2
21	3	1660.	592.	612.	4132.	592.	612.	4132.	5772.	328.	0.	0.	.72	61.	22.6	C	21.1	3.8
22	2	2270.	0.	0.	3520.	0.	0.	3520.	4400.	0.	0.	0.	.80	61.	28.9	D	21.1	3.8
23	2	3040.	328.	212.	3848.	328.	212.	3848.	4100.	0.	0.	0.	.94	56.	34.5	D	22.9	2.2
24	2	2190.	0.	0.	3636.	0.	0.	3636.	4200.	0.	0.	0.	.87	61.	29.9	D	21.2	3.7
25	3	2400.	152.	3788.	3788.	152.	3788.	3788.	6150.	0.	0.	0.	.62	65.	19.4	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.94		LOWEST LOS = D	AVG = 60.	23.4		19.2	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	154. VEH-HRS	179. PASS-HRS	748. VEH-HRS	867. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	154. VEH-HRS	179. PASS-HRS	748. VEH-HRS	867. PASS-HRS
TOTAL TRAV DISTANCE =	9307. VEH-MI.	10796. PASS-MI.	45421. VEH-MI.	52689. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		61. MPH.	
AVERAGE DENSITY =	23. VPMPL		19. VPMPL	
TOTAL FUEL =	485. GALLONS		2383. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		187. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1212.	0.	1212.	1212.	0.	1212.	3850.	0.	0.	0.	.31	50.	12.1	B	17.4	2.3
2	2	2070.	1048.	0.	2260.	1048.	0.	2260.	3850.	0.	0.	0.	.59	50.	22.6	C	15.9	2.3
3	3	2300.	1704.	304.	3964.	1704.	304.	3964.	5528.	172.	0.	0.	.72	55.	24.0	C	14.0	2.4
4	3	1020.	0.	0.	3660.	0.	0.	3660.	5700.	0.	0.	0.	.64	62.	19.7	C	19.9	4.8
5	3	710.	336.	0.	3996.	336.	0.	3996.	5700.	0.	0.	0.	.70	62.	21.5	C	16.1	4.4
6	3	3820.	396.	848.	4392.	396.	848.	4392.	6150.	0.	0.	0.	.71	62.	23.6	C	17.1	4.8
7	2	1220.	0.	0.	3544.	0.	0.	3544.	4400.	0.	0.	0.	.81	61.	29.1	D	18.6	3.7
8	3	4810.	720.	508.	4264.	720.	508.	4264.	6100.	0.	0.	0.	.70	62.	22.9	C	20.6	4.4
9	2	1370.	0.	0.	3756.	0.	0.	3756.	4000.	0.	0.	0.	.94	56.	33.7	D	26.7	2.2
10	2	660.	272.	0.	4028.	272.	0.	4028.	4384.	16.	0.	0.	.92	57.	35.4	E	26.2	2.4
11	3	790.	648.	608.	4676.	648.	608.	4676.	5556.	544.	0.	0.	.84	60.	26.0	C	31.6	3.2
12	2	1460.	0.	0.	4068.	0.	0.	4068.	4100.	0.	0.	0.	.99	52.	39.0	E	23.8	2.0
13	3	1400.	428.	0.	4496.	428.	0.	4496.	6000.	100.	0.	0.	.75	62.	24.2	C	13.6	4.4
14	3	2600.	0.	1044.	4496.	0.	1044.	4496.	6000.	100.	0.	0.	.75	62.	24.2	C	20.6	4.4
15	2	2010.	0.	0.	3452.	0.	0.	3452.	3900.	0.	0.	0.	.89	58.	29.5	D	15.6	2.8
16	3	6120.	504.	356.	3956.	504.	356.	3956.	6100.	0.	0.	0.	.65	62.	21.3	C	18.2	4.4
17	2	1240.	0.	0.	3600.	0.	0.	3600.	4300.	0.	0.	0.	.84	60.	29.9	D	19.0	3.3
18	3	930.	268.	0.	3868.	268.	0.	3868.	6099.	1.	0.	0.	.63	62.	20.8	C	20.6	4.4
19	3	5330.	160.	304.	4028.	160.	304.	4028.	6088.	12.	0.	0.	.66	62.	21.7	C	20.6	4.4
20	2	2830.	0.	0.	3724.	0.	0.	3724.	3800.	0.	0.	0.	.98	53.	35.2	E	23.6	2.0
21	3	1660.	516.	432.	4240.	516.	432.	4240.	5986.	114.	0.	0.	.71	61.	23.2	C	21.1	3.8
22	2	2270.	0.	0.	3808.	0.	0.	3772.	4400.	0. *	490.	36.	.86	51.	37.1	F	21.6	3.1
23	2	3040.	328.	220.	4136.	328.	218.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
24	2	2190.	0.	0.	3916.	0.	0.	3882.	4200.	0.	0.	0.	.92	58.	33.6	D	22.3	2.7
25	3	2400.	208.	4124.	4124.	208.	4090.	4090.	6150.	0.	0.	0.	.67	65.	21.0	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 59.	26.5		19.5	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	174. VEH-HRS	201. PASS-HRS	921. VEH-HRS	1069. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	174. VEH-HRS	201. PASS-HRS	921. VEH-HRS	1069. PASS-HRS
TOTAL TRAV DISTANCE =	10212. VEH-MI.	11846. PASS-MI.	55633. VEH-MI.	64535. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	27. VPMPL		20. VPMPL	
TOTAL FUEL =	525. GALLONS		2908. GALLONS	
TOTAL EMISSIONS =	38. KILOGRAMS		225. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1528.	0.	1528.	1528.	0.	1528.	3850.	0.	0.	0.	.40	50.	15.3	B	17.4	2.3
2	2	2070.	992.	0.	2520.	992.	0.	2520.	3846.	4.	0.	0.	.66	50.	25.2	C	15.9	2.3
3	3	2300.	1724.	344.	4244.	1724.	344.	4244.	5490.	210.	0.	0.	.77	55.	25.7	C	14.0	2.4
4	3	1020.	0.	0.	3900.	0.	0.	3900.	5700.	0.	0.	0.	.68	62.	21.0	C	19.9	4.8
5	3	710.	384.	0.	4284.	384.	0.	4284.	5700.	0.	0.	0.	.75	62.	23.0	C	16.1	4.4
6	3	3820.	428.	928.	4712.	428.	928.	4712.	6133.	17.	0.	0.	.77	61.	25.5	C	17.3	4.5
7	2	1220.	0.	0.	3784.	0.	0.	3784.	4400.	0.	0.	0.	.86	59.	31.8	D	19.2	3.0
8	3	4810.	720.	536.	4504.	720.	536.	4300.	6100.	0.	* 443.	204.	.70	59.	24.4	F	20.5	4.4
9	2	1370.	0.	0.	3968.	0.	0.	3764.	4000.	0.	** 1370.	204.	.94	40.	47.2	F	28.2	2.4
10	2	660.	348.	0.	4316.	348.	0.	4112.	4376.	24.	** 660.	204.	.94	37.	56.1	F	28.2	2.5
11	3	790.	724.	736.	5040.	724.	736.	4836.	5452.	648.	** 790.	204.	.89	28.	57.2	F	33.8	3.2
12	2	1460.	0.	0.	4304.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	456.	0.	4760.	456.	0.	4556.	5980.	120.	0.	0.	.76	62.	24.5	C	13.6	4.4
14	3	2600.	0.	1256.	4760.	0.	1202.	4556.	5980.	120.	0.	0.	.76	62.	24.5	C	20.6	4.4
15	2	2010.	0.	0.	3504.	0.	0.	3354.	3900.	0.	0.	0.	.86	59.	28.2	D	15.4	3.0
16	3	6120.	556.	440.	4060.	556.	424.	3910.	6100.	0.	0.	0.	.64	62.	21.0	C	18.2	4.4
17	2	1240.	0.	0.	3620.	0.	0.	3486.	4300.	0.	0.	0.	.81	61.	28.7	D	18.7	3.6
18	3	930.	328.	0.	3948.	328.	0.	3814.	6099.	1.	0.	0.	.63	62.	20.5	C	20.6	4.4
19	3	5330.	160.	368.	4108.	160.	356.	3974.	6083.	17.	0.	0.	.65	62.	21.4	C	20.6	4.4
20	2	2830.	0.	0.	3740.	0.	0.	3618.	3800.	0.	0.	0.	.95	55.	33.1	D	23.2	2.0
21	3	1660.	696.	504.	4436.	696.	490.	4314.	5824.	276.	0.	0.	.74	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	3932.	0.	0.	3796.	4400.	0.	* 877.	28.	.86	41.	46.4	F	21.2	3.2
23	2	3040.	304.	356.	4236.	304.	345.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
24	2	2190.	0.	0.	3880.	0.	0.	3755.	4200.	0.	0.	0.	.89	59.	31.6	D	21.8	3.1
25	3	2400.	212.	4092.	4092.	212.	3967.	3967.	6150.	0.	0.	0.	.65	65.	20.3	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 56.	28.2		19.4	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	185. VEH-HRS	215. PASS-HRS	1107. VEH-HRS	1284. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	185. VEH-HRS	215. PASS-HRS	1107. VEH-HRS	1284. PASS-HRS
TOTAL TRAV DISTANCE =	10376. VEH-MI.	12036. PASS-MI.	66009. VEH-MI.	76571. PASS-MI.
AVERAGE SYSTEM SPEED =	56. MPH.		60. MPH.	
AVERAGE DENSITY =	28. VPMPL		21. VPMPL	
TOTAL FUEL =	534. GALLONS		3442. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		264. KILOGRAMS	

```
QUEUE SPLIT SECTION 10
QUEUE SPLIT SECTION  9
QUEUE CLEAR SECTION  22 FT=    83
QUEUE CLEAR SECTION  11 FT=     0
QUEUE CLEAR SECTION  10 FT=   114
QUEUE CLEAR SECTION   9 T2 =0.231
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2564.	0.	2564.	2564.	0.	2564.	3850.	0.	0.	0.	.67	50.	25.6	C	17.4	2.3
2	2	2070.	848.	0.	3412.	848.	0.	3412.	3824.	26.	0.	0.	.89	50.	34.1	D	15.9	2.3
3	3	2300.	1556.	372.	4968.	1556.	372.	4968.	5415.	285.	0.	0.	.92	55.	30.1	D	14.0	2.4
4	3	1020.	0.	0.	4596.	0.	0.	4596.	5700.	0.	0.	0.	.81	62.	24.7	C	19.9	4.8
5	3	710.	292.	0.	4888.	292.	0.	4888.	5700.	0.	0.	0.	.86	60.	27.4	D	17.0	3.1
6	3	3820.	300.	1156.	5188.	300.	1156.	5188.	6104.	46.	0.	0.	.85	60.	28.9	D	18.0	3.6
7	2	1220.	0.	0.	4032.	0.	0.	4032.	4400.	0.	0.	0.	.92	57.	35.3	E	19.9	2.5
8	3	4810.	632.	820.	4664.	632.	820.	4664.	6100.	0.	0.	0.	.76	58.	26.9	D	20.7	4.1
9	2	1370.	0.	0.	3844.	0.	0.	3949.	4000.	0.	0.	-105.	.99	41.	48.3	F	27.7	2.3
10	2	660.	252.	0.	4096.	252.	0.	4219.	4376.	24.	0.	-18.	.96	41.	51.7	F	27.8	2.3
11	3	790.	680.	1000.	4776.	680.	1026.	4959.	5536.	564.	0.	-60.	.90	37.	45.0	E	33.5	3.0
12	2	1460.	0.	0.	3776.	0.	0.	3933.	4100.	0.	0.	0.	.96	55.	36.1	E	23.3	2.0
13	3	1400.	524.	0.	4300.	524.	0.	4457.	5988.	112.	0.	0.	.74	62.	24.0	C	13.6	4.4
14	3	2600.	0.	920.	4300.	0.	954.	4457.	5988.	112.	0.	0.	.74	62.	24.0	C	20.6	4.4
15	2	2010.	0.	0.	3380.	0.	0.	3504.	3900.	0.	0.	0.	.90	58.	30.3	D	15.8	2.7
16	3	6120.	492.	528.	3872.	492.	545.	3996.	6100.	0.	0.	0.	.66	62.	21.5	C	18.2	4.4
17	2	1240.	0.	0.	3344.	0.	0.	3451.	4300.	0.	0.	0.	.80	61.	28.3	D	18.6	3.7
18	3	930.	348.	0.	3692.	348.	0.	3799.	6100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
19	3	5330.	176.	436.	3868.	176.	448.	3975.	6080.	20.	0.	0.	.65	62.	21.4	C	20.6	4.4
20	2	2830.	0.	0.	3432.	0.	0.	3527.	3800.	0.	0.	0.	.93	56.	31.5	D	22.8	2.2
21	3	1660.	496.	412.	3928.	496.	422.	4023.	6028.	72.	0.	0.	.67	61.	22.0	C	21.1	3.8
22	2	2270.	0.	0.	3516.	0.	0.	3667.	4400.	0.	0.	-66.	.83	44.	42.0	E	20.8	3.6
23	2	3040.	144.	312.	3660.	144.	325.	3811.	4100.	0.	0.	0.	.93	56.	33.8	D	22.7	2.3
24	2	2190.	0.	0.	3348.	0.	0.	3486.	4200.	0.	0.	0.	.83	62.	28.0	D	20.5	4.5
25	3	2400.	216.	3564.	3564.	216.	3702.	3702.	6150.	0.	0.	0.	.60	65.	19.0	C	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.99	LOWEST LOS = F		AVG = 57.	28.4		19.3	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	187. VEH-HRS	216. PASS-HRS	1293. VEH-HRS	1500. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	187. VEH-HRS	216. PASS-HRS	1293. VEH-HRS	1500. PASS-HRS
TOTAL TRAV DISTANCE =	10616. VEH-MI.	12314. PASS-MI.	76625. VEH-MI.	88885. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		59. MPH.	
AVERAGE DENSITY =	28. VPMPL		22. VPMPL	
TOTAL FUEL =	550. GALLONS		3993. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		303. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1172.	0.	1172.	1172.	0.	1172.	3850.	0.	0.	0.	.30	50.	11.7	B	17.4	2.3
2	2	2070.	864.	0.	2036.	864.	0.	2036.	3850.	0.	0.	0.	.53	50.	20.4	C	15.9	2.3
3	3	2300.	1668.	392.	3704.	1668.	392.	3704.	5484.	216.	0.	0.	.68	55.	22.4	C	14.0	2.4
4	3	1020.	0.	0.	3312.	0.	0.	3312.	5700.	0.	0.	0.	.58	62.	17.8	B	19.9	4.8
5	3	710.	312.	0.	3624.	312.	0.	3624.	5700.	0.	0.	0.	.64	62.	19.5	C	16.1	4.4
6	3	3820.	452.	1092.	4076.	452.	1092.	4076.	6084.	66.	0.	0.	.67	62.	21.9	C	17.1	4.8
7	2	1220.	0.	0.	2984.	0.	0.	2984.	4400.	0.	0.	0.	.68	62.	24.1	C	18.2	4.4
8	3	4810.	636.	696.	3620.	636.	696.	3620.	6100.	0.	0.	0.	.59	62.	19.5	C	20.6	4.4
9	2	1370.	0.	0.	2924.	0.	0.	2924.	4000.	0.	0.	0.	.73	62.	23.6	C	23.6	4.4
10	2	660.	284.	0.	3208.	284.	0.	3208.	4375.	25.	0.	0.	.73	62.	25.9	C	23.7	4.3
11	3	790.	576.	764.	3784.	576.	764.	3784.	5609.	491.	0.	0.	.67	62.	20.3	C	30.0	4.4
12	2	1460.	0.	0.	3020.	0.	0.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
13	3	1400.	500.	0.	3520.	500.	0.	3520.	6000.	100.	0.	0.	.59	62.	18.9	C	13.6	4.4
14	3	2600.	0.	712.	3520.	0.	712.	3520.	6000.	100.	0.	0.	.59	62.	18.9	C	20.6	4.4
15	2	2010.	0.	0.	2808.	0.	0.	2808.	3900.	0.	0.	0.	.72	62.	22.6	C	14.7	4.4
16	3	6120.	580.	508.	3388.	580.	508.	3388.	6100.	0.	0.	0.	.56	62.	18.2	C	18.2	4.4
17	2	1240.	0.	0.	2880.	0.	0.	2880.	4300.	0.	0.	0.	.67	62.	23.2	C	18.2	4.4
18	3	930.	300.	0.	3180.	300.	0.	3180.	6100.	0.	0.	0.	.52	62.	17.1	B	20.6	4.4
19	3	5330.	132.	480.	3312.	132.	480.	3312.	6087.	13.	0.	0.	.54	62.	17.8	B	20.6	4.4
20	2	2830.	0.	0.	2832.	0.	0.	2832.	3800.	0.	0.	0.	.75	61.	23.2	C	21.1	3.8
21	3	1660.	548.	516.	3380.	548.	516.	3380.	5906.	194.	0.	0.	.57	61.	18.5	C	21.1	3.8
22	2	2270.	0.	0.	2864.	0.	0.	2864.	4400.	0.	0.	0.	.65	62.	23.1	C	20.6	4.4
23	2	3040.	204.	340.	3068.	204.	340.	3068.	4100.	0.	0.	0.	.75	62.	24.7	C	20.6	4.4
24	2	2190.	0.	0.	2728.	0.	0.	2728.	4200.	0.	0.	0.	.65	65.	21.0	C	19.2	6.1
25	3	2400.	160.	2888.	2888.	160.	2888.	2888.	6150.	0.	0.	0.	.47	65.	14.8	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.75		LOWEST LOS = C	AVG = 61.	20.4		18.8	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	136. VEH-HRS	158. PASS-HRS	1429. VEH-HRS	1658. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	136. VEH-HRS	158. PASS-HRS	1429. VEH-HRS	1658. PASS-HRS
TOTAL TRAV DISTANCE =	8353. VEH-MI.	9689. PASS-MI.	84978. VEH-MI.	98574. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		59. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	445. GALLONS		4438. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		339. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1884.	0.	1884.	1884.	0.	1884.	3850.	0.	0.	0.	.49	50.	18.8	C	17.4	2.3
2	2	2070.	796.	0.	2680.	796.	0.	2680.	3838.	12.	0.	0.	.70	50.	26.8	D	15.9	2.3
3	3	2300.	1772.	320.	4452.	1772.	320.	4452.	5493.	207.	0.	0.	.81	55.	27.0	D	14.0	2.4
4	3	1020.	0.	0.	4132.	0.	0.	4132.	5700.	0.	0.	0.	.72	62.	22.2	C	19.9	4.8
5	3	710.	356.	0.	4488.	356.	0.	4488.	5700.	0.	0.	0.	.79	62.	24.1	C	16.1	4.4
6	3	3820.	380.	1056.	4868.	380.	1056.	4868.	6106.	44.	0.	0.	.80	61.	26.6	D	17.5	4.3
7	2	1220.	0.	0.	3812.	0.	0.	3812.	4400.	0.	0.	0.	.87	59.	32.2	D	19.3	3.0
8	3	4810.	724.	776.	4536.	724.	776.	4536.	6100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
9	2	1370.	0.	0.	3760.	0.	0.	3760.	4000.	0.	0.	0.	.94	56.	33.7	D	26.7	2.2
10	2	660.	268.	0.	4028.	268.	0.	4028.	4380.	20.	0.	0.	.92	57.	35.4	E	26.2	2.4
11	3	790.	520.	764.	4548.	520.	764.	4548.	5644.	456.	0.	0.	.81	62.	24.5	C	30.0	4.4
12	2	1460.	0.	0.	3784.	0.	0.	3784.	4100.	0.	0.	0.	.92	57.	33.4	D	22.6	2.4
13	3	1400.	460.	0.	4244.	460.	0.	4244.	6008.	92.	0.	0.	.71	62.	22.8	C	13.6	4.4
14	3	2600.	0.	828.	4244.	0.	828.	4244.	6008.	92.	0.	0.	.71	62.	22.8	C	20.6	4.4
15	2	2010.	0.	0.	3416.	0.	0.	3416.	3900.	0.	0.	0.	.88	59.	29.0	D	15.6	2.9
16	3	6120.	392.	596.	3808.	392.	596.	3808.	6100.	0.	0.	0.	.62	62.	20.5	C	18.2	4.4
17	2	1240.	0.	0.	3212.	0.	0.	3212.	4300.	0.	0.	0.	.75	62.	26.0	D	18.3	4.2
18	3	930.	236.	0.	3448.	236.	0.	3448.	6100.	0.	0.	0.	.57	62.	18.5	C	20.6	4.4
19	3	5330.	116.	496.	3564.	116.	496.	3564.	6086.	14.	0.	0.	.59	62.	19.2	C	20.6	4.4
20	2	2830.	0.	0.	3068.	0.	0.	3068.	3800.	0.	0.	0.	.81	61.	25.1	C	21.1	3.8
21	3	1660.	480.	464.	3548.	480.	464.	3548.	6000.	100.	0.	0.	.59	61.	19.4	C	21.1	3.8
22	2	2270.	0.	0.	3084.	0.	0.	3084.	4400.	0.	0.	0.	.70	62.	24.9	C	20.6	4.3
23	2	3040.	200.	288.	3284.	200.	288.	3284.	4100.	0.	0.	0.	.80	61.	26.9	D	21.1	3.8
24	2	2190.	0.	0.	2996.	0.	0.	2996.	4200.	0.	0.	0.	.71	65.	23.2	C	19.3	5.9
25	3	2400.	168.	3164.	3164.	168.	3164.	3164.	6150.	0.	0.	0.	.51	65.	16.2	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.94		LOWEST LOS = E	AVG = 61.	24.1		19.0	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	160. VEH-HRS	186. PASS-HRS	1590. VEH-HRS	1844. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	160. VEH-HRS	186. PASS-HRS	1590. VEH-HRS	1844. PASS-HRS
TOTAL TRAV DISTANCE =	9714. VEH-MI.	11269. PASS-MI.	94692. VEH-MI.	109843. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	512. GALLONS		4950. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		379. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1444.	0.	1444.	1444.	0.	1444.	3850.	0.	0.	0.	.38	50.	14.4	B	17.4	2.3
2	2	2070.	908.	0.	2352.	908.	0.	2352.	3850.	0.	0.	0.	.61	50.	23.5	C	15.9	2.3
3	3	2300.	1800.	344.	4152.	1800.	344.	4152.	5502.	198.	0.	0.	.75	55.	25.2	C	14.0	2.4
4	3	1020.	0.	0.	3808.	0.	0.	3808.	5700.	0.	0.	0.	.67	62.	20.5	C	19.9	4.8
5	3	710.	292.	0.	4100.	292.	0.	4100.	5700.	0.	0.	0.	.72	62.	22.0	C	16.1	4.4
6	3	3820.	356.	1036.	4456.	356.	1036.	4456.	6123.	27.	0.	0.	.73	62.	24.0	C	17.1	4.8
7	2	1220.	0.	0.	3420.	0.	0.	3420.	4400.	0.	0.	0.	.78	61.	27.9	D	18.4	4.0
8	3	4810.	644.	708.	4064.	644.	708.	4064.	6100.	0.	0.	0.	.67	62.	21.8	C	20.6	4.4
9	2	1370.	0.	0.	3356.	0.	0.	3356.	4000.	0.	0.	0.	.84	60.	27.9	D	24.7	3.2
10	2	660.	272.	0.	3628.	272.	0.	3628.	4375.	25.	0.	0.	.83	60.	30.1	D	24.6	3.4
11	3	790.	672.	872.	4300.	672.	872.	4300.	5533.	567.	0.	0.	.78	62.	23.1	C	30.0	4.4
12	2	1460.	0.	0.	3428.	0.	0.	3428.	4100.	0.	0.	0.	.84	60.	28.5	D	21.5	3.3
13	3	1400.	412.	0.	3840.	412.	0.	3840.	5972.	128.	0.	0.	.64	62.	20.6	C	13.6	4.4
14	3	2600.	0.	1192.	3840.	0.	1192.	3840.	5972.	128.	0.	0.	.64	62.	20.6	C	20.6	4.4
15	2	2010.	0.	0.	2648.	0.	0.	2648.	3900.	0.	0.	0.	.68	62.	21.4	C	14.7	4.4
16	3	6120.	460.	696.	3108.	460.	696.	3108.	6100.	0.	0.	0.	.51	62.	16.7	B	18.2	4.4
17	2	1240.	0.	0.	2412.	0.	0.	2412.	4300.	0.	0.	0.	.56	62.	19.5	C	18.2	4.4
18	3	930.	240.	0.	2652.	240.	0.	2652.	6100.	0.	0.	0.	.43	62.	14.3	B	20.6	4.4
19	3	5330.	124.	412.	2776.	124.	412.	2776.	6098.	2.	0.	0.	.46	62.	14.9	B	20.6	4.4
20	2	2830.	0.	0.	2364.	0.	0.	2364.	3800.	0.	0.	0.	.62	61.	19.4	C	21.1	3.8
21	3	1660.	420.	428.	2784.	420.	428.	2784.	6082.	18.	0.	0.	.46	61.	15.2	B	21.1	3.8
22	2	2270.	0.	0.	2356.	0.	0.	2356.	4400.	0.	0.	0.	.54	62.	19.0	C	20.6	4.4
23	2	3040.	148.	280.	2504.	148.	280.	2504.	4100.	0.	0.	0.	.61	62.	20.2	C	20.6	4.4
24	2	2190.	0.	0.	2224.	0.	0.	2224.	4200.	0.	0.	0.	.53	65.	17.1	B	19.2	6.1
25	3	2400.	108.	2332.	2332.	108.	2332.	2332.	6150.	0.	0.	0.	.38	65.	12.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.84		LOWEST LOS = D	AVG = 61.	20.0		18.7	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	1724. VEH-HRS	2000. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	1724. VEH-HRS	2000. PASS-HRS
TOTAL TRAV DISTANCE =	8180. VEH-MI.	9489. PASS-MI.	102872. VEH-MI.	119332. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	437. GALLONS		5387. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		413. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2224.	0.	2224.	2224.	0.	2224.	3850.	0.	0.	0.	.58	50.	22.2	C	17.4	2.3
2	2	2070.	832.	0.	3056.	832.	0.	3056.	3837.	13.	0.	0.	.80	50.	30.6	D	15.9	2.3
3	3	2300.	1396.	208.	4452.	1396.	208.	4452.	5547.	153.	0.	0.	.80	55.	27.0	D	14.0	2.4
4	3	1020.	0.	0.	4244.	0.	0.	4244.	5700.	0.	0.	0.	.74	62.	22.8	C	19.9	4.8
5	3	710.	288.	0.	4532.	288.	0.	4532.	5700.	0.	0.	0.	.80	62.	24.4	C	16.1	4.4
6	3	3820.	424.	880.	4956.	424.	880.	4956.	6150.	0.	0.	0.	.81	61.	27.1	D	17.6	4.2
7	2	1220.	0.	0.	4076.	0.	0.	4076.	4400.	0.	0.	0.	.93	57.	36.1	E	20.0	2.3
8	3	4810.	652.	668.	4728.	652.	668.	4668.	6100.	0. *	411.	60.	.77	55.	28.1	F	20.7	4.0
9	2	1370.	0.	0.	4060.	0.	0.	4000.	4000.	0.	0.	0.	1.00	52.	38.8	E	28.4	2.0
10	2	660.	184.	0.	4244.	184.	0.	4184.	4387.	13.	0.	0.	.95	55.	38.1	E	27.1	2.0
11	3	790.	636.	704.	4880.	636.	695.	4795.	5541.	559. *	276.	25.	.87	47.	33.9	F	32.3	3.1
12	2	1460.	0.	0.	4176.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	432.	0.	4608.	432.	0.	4532.	5960.	140.	0.	0.	.76	62.	24.4	C	13.6	4.4
14	3	2600.	0.	1496.	4608.	0.	1471.	4532.	5960.	140.	0.	0.	.76	62.	24.4	C	20.6	4.4
15	2	2010.	0.	0.	3112.	0.	0.	3061.	3900.	0.	0.	0.	.78	62.	24.7	C	14.7	4.4
16	3	6120.	360.	676.	3472.	360.	666.	3421.	6100.	0.	0.	0.	.56	62.	18.4	C	18.2	4.4
17	2	1240.	0.	0.	2796.	0.	0.	2755.	4300.	0.	0.	0.	.64	62.	22.2	C	18.2	4.4
18	3	930.	276.	0.	3072.	276.	0.	3031.	6100.	0.	0.	0.	.50	62.	16.3	B	20.6	4.4
19	3	5330.	100.	428.	3172.	100.	422.	3131.	6091.	9.	0.	0.	.51	62.	16.8	B	20.6	4.4
20	2	2830.	0.	0.	2744.	0.	0.	2708.	3800.	0.	0.	0.	.71	61.	22.2	C	21.1	3.8
21	3	1660.	372.	328.	3116.	372.	324.	3080.	6100.	0.	0.	0.	.50	61.	16.8	B	21.1	3.8
22	2	2270.	0.	0.	2788.	0.	0.	2756.	4400.	0.	0.	0.	.63	62.	22.2	C	20.6	4.4
23	2	3040.	104.	248.	2892.	104.	245.	2860.	4100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
24	2	2190.	0.	0.	2644.	0.	0.	2615.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	124.	2768.	2768.	124.	2739.	2739.	6150.	0.	0.	0.	.45	65.	14.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 59.	23.8		19.0	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	159. VEH-HRS	184. PASS-HRS	1883. VEH-HRS	2184. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	159. VEH-HRS	184. PASS-HRS	1883. VEH-HRS	2184. PASS-HRS
TOTAL TRAV DISTANCE =	9378. VEH-MI.	10878. PASS-MI.	112250. VEH-MI.	130210. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	494. GALLONS		5881. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		450. KILOGRAMS	

```
QUEUE CLEAR SECTION  11 T2 =0.245
QUEUE CLEAR SECTION   8 FT=     0
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1964.	0.	1964.	1964.	0.	1964.	3850.	0.	0.	0.	.51	50.	19.6	C	17.4	2.3
2	2	2070.	792.	0.	2756.	792.	0.	2756.	3835.	15.	0.	0.	.72	50.	27.6	D	15.9	2.3
3	3	2300.	1456.	336.	4212.	1456.	336.	4212.	5461.	239.	0.	0.	.77	55.	25.5	C	14.0	2.4
4	3	1020.	0.	0.	3876.	0.	0.	3876.	5700.	0.	0.	0.	.68	62.	20.8	C	19.9	4.8
5	3	710.	220.	0.	4096.	220.	0.	4096.	5700.	0.	0.	0.	.72	62.	22.0	C	16.1	4.4
6	3	3820.	300.	772.	4396.	300.	772.	4396.	6150.	0.	0.	0.	.71	62.	23.6	C	17.1	4.8
7	2	1220.	0.	0.	3624.	0.	0.	3624.	4400.	0.	0.	0.	.82	60.	30.0	D	18.8	3.5
8	3	4810.	576.	676.	4200.	576.	676.	4272.	6100.	0.	0.	-72.	.70	54.	26.4	D	20.3	4.4
9	2	1370.	0.	0.	3524.	0.	0.	3596.	4000.	0.	0.	0.	.90	58.	31.1	D	25.7	2.7
10	2	660.	300.	0.	3824.	300.	0.	3896.	4382.	18.	0.	0.	.89	58.	33.4	D	25.5	2.8
11	3	790.	520.	568.	4344.	520.	577.	4451.	5626.	474.	0.	-35.	.79	44.	33.4	D	29.5	4.4
12	2	1460.	0.	0.	3776.	0.	0.	3874.	4100.	0.	0.	0.	.94	55.	34.9	D	23.0	2.1
13	3	1400.	312.	0.	4088.	312.	0.	4186.	5996.	104.	0.	0.	.70	62.	22.5	C	13.6	4.4
14	3	2600.	0.	1348.	4088.	0.	1380.	4186.	5996.	104.	0.	0.	.70	62.	22.5	C	20.6	4.4
15	2	2010.	0.	0.	2740.	0.	0.	2806.	3900.	0.	0.	0.	.72	62.	22.6	C	14.7	4.4
16	3	6120.	372.	648.	3112.	372.	662.	3178.	6100.	0.	0.	0.	.52	62.	17.1	B	18.2	4.4
17	2	1240.	0.	0.	2464.	0.	0.	2516.	4300.	0.	0.	0.	.59	62.	20.3	C	18.2	4.4
18	3	930.	300.	0.	2764.	300.	0.	2816.	6100.	0.	0.	0.	.46	62.	15.1	B	20.6	4.4
19	3	5330.	116.	380.	2880.	116.	387.	2932.	6095.	5.	0.	0.	.48	62.	15.8	B	20.6	4.4
20	2	2830.	0.	0.	2500.	0.	0.	2545.	3800.	0.	0.	0.	.67	61.	20.9	C	21.1	3.8
21	3	1660.	344.	432.	2844.	344.	439.	2889.	6100.	0.	0.	0.	.47	61.	15.8	B	21.1	3.8
22	2	2270.	0.	0.	2412.	0.	0.	2450.	4400.	0.	0.	0.	.56	62.	19.8	C	20.6	4.4
23	2	3040.	124.	228.	2536.	124.	231.	2574.	4100.	0.	0.	0.	.63	62.	20.8	C	20.6	4.4
24	2	2190.	0.	0.	2308.	0.	0.	2343.	4200.	0.	0.	0.	.56	65.	18.0	C	19.2	6.1
25	3	2400.	64.	2372.	2372.	64.	2407.	2407.	6150.	0.	0.	0.	.39	65.	12.3	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.94		LOWEST LOS = D	AVG = 59.	21.6		18.8	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 14 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	144. VEH-HRS	167. PASS-HRS	2027. VEH-HRS	2351. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	144. VEH-HRS	167. PASS-HRS	2027. VEH-HRS	2351. PASS-HRS
TOTAL TRAV DISTANCE =	8561. VEH-MI.	9931. PASS-MI.	120811. VEH-MI.	140140. PASS-MI.
AVERAGE SYSTEM SPEED =	59. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		22. VPMPL	
TOTAL FUEL =	456. GALLONS		6337. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		486. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1648.	0.	1648.	1648.	0.	1648.	3850.	0.	0.	0.	.43	50.	16.5	B	17.4	2.3
2	2	2070.	764.	0.	2412.	764.	0.	2412.	3845.	5.	0.	0.	.63	50.	24.1	C	15.9	2.3
3	3	2300.	1472.	264.	3884.	1472.	264.	3884.	5529.	171.	0.	0.	.70	55.	23.5	C	14.0	2.4
4	3	1020.	0.	0.	3620.	0.	0.	3620.	5700.	0.	0.	0.	.64	62.	19.5	C	19.9	4.8
5	3	710.	236.	0.	3856.	236.	0.	3856.	5700.	0.	0.	0.	.68	62.	20.7	C	16.1	4.4
6	3	3820.	316.	840.	4172.	316.	840.	4172.	6150.	0.	0.	0.	.68	62.	22.4	C	17.1	4.8
7	2	1220.	0.	0.	3332.	0.	0.	3332.	4400.	0.	0.	0.	.76	62.	27.0	D	18.3	4.1
8	3	4810.	448.	760.	3780.	448.	760.	3780.	6100.	0.	0.	0.	.62	62.	20.3	C	20.6	4.4
9	2	1370.	0.	0.	3020.	0.	0.	3020.	4000.	0.	0.	0.	.75	62.	24.4	C	23.6	4.4
10	2	660.	260.	0.	3280.	260.	0.	3280.	4380.	20.	0.	0.	.75	62.	26.6	D	23.7	4.2
11	3	790.	476.	628.	3756.	476.	628.	3756.	5680.	420.	0.	0.	.66	62.	20.2	C	30.0	4.4
12	2	1460.	0.	0.	3128.	0.	0.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
13	3	1400.	340.	0.	3468.	340.	0.	3468.	6036.	64.	0.	0.	.57	62.	18.6	C	13.6	4.4
14	3	2600.	0.	660.	3468.	0.	660.	3468.	6036.	64.	0.	0.	.57	62.	18.6	C	20.6	4.4
15	2	2010.	0.	0.	2808.	0.	0.	2808.	3900.	0.	0.	0.	.72	62.	22.6	C	14.7	4.4
16	3	6120.	428.	544.	3236.	428.	544.	3236.	6100.	0.	0.	0.	.53	62.	17.4	B	18.2	4.4
17	2	1240.	0.	0.	2692.	0.	0.	2692.	4300.	0.	0.	0.	.63	62.	21.7	C	18.2	4.4
18	3	930.	332.	0.	3024.	332.	0.	3024.	6100.	0.	0.	0.	.50	62.	16.3	B	20.6	4.4
19	3	5330.	120.	496.	3144.	120.	496.	3144.	6089.	11.	0.	0.	.52	62.	16.9	B	20.6	4.4
20	2	2830.	0.	0.	2648.	0.	0.	2648.	3800.	0.	0.	0.	.70	61.	21.7	C	21.1	3.8
21	3	1660.	280.	372.	2928.	280.	372.	2928.	6100.	0.	0.	0.	.48	61.	16.0	B	21.1	3.8
22	2	2270.	0.	0.	2556.	0.	0.	2556.	4400.	0.	0.	0.	.58	62.	20.6	C	20.6	4.4
23	2	3040.	76.	208.	2632.	76.	208.	2632.	4100.	0.	0.	0.	.64	62.	21.2	C	20.6	4.4
24	2	2190.	0.	0.	2424.	0.	0.	2424.	4200.	0.	0.	0.	.58	65.	18.6	C	19.2	6.1
25	3	2400.	104.	2528.	2528.	104.	2528.	2528.	6150.	0.	0.	0.	.41	65.	13.0	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.76		LOWEST LOS = D	AVG = 61.	20.0		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2161. VEH-HRS	2507. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	134. VEH-HRS	155. PASS-HRS	2161. VEH-HRS	2507. PASS-HRS
TOTAL TRAV DISTANCE =	8189. VEH-MI.	9500. PASS-MI.	129000. VEH-MI.	149640. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	20. VPMPL		22. VPMPL	
TOTAL FUEL =	438. GALLONS		6775. GALLONS	
TOTAL EMISSIONS =	35. KILOGRAMS		521. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1748.	0.	1748.	1748.	0.	1748.	3850.	0.	0.	0.	.45	50.	17.5	B	17.4	2.3
2	2	2070.	724.	0.	2472.	724.	0.	2472.	3842.	8.	0.	0.	.64	50.	24.7	C	15.9	2.3
3	3	2300.	1572.	308.	4044.	1572.	308.	4044.	5502.	198.	0.	0.	.74	55.	24.5	C	14.0	2.4
4	3	1020.	0.	0.	3736.	0.	0.	3736.	5700.	0.	0.	0.	.66	62.	20.1	C	19.9	4.8
5	3	710.	200.	0.	3936.	200.	0.	3936.	5700.	0.	0.	0.	.69	62.	21.2	C	16.1	4.4
6	3	3820.	428.	948.	4364.	428.	948.	4364.	6133.	17.	0.	0.	.71	62.	23.5	C	17.1	4.8
7	2	1220.	0.	0.	3416.	0.	0.	3416.	4400.	0.	0.	0.	.78	61.	27.8	D	18.4	4.0
8	3	4810.	580.	700.	3996.	580.	700.	3996.	6100.	0.	0.	0.	.66	62.	21.5	C	20.6	4.4
9	2	1370.	0.	0.	3296.	0.	0.	3296.	4000.	0.	0.	0.	.82	60.	27.2	D	24.5	3.5
10	2	660.	200.	0.	3496.	200.	0.	3496.	4382.	18.	0.	0.	.80	61.	28.6	D	24.1	3.8
11	3	790.	496.	768.	3992.	496.	768.	3992.	5678.	422.	0.	0.	.70	62.	21.5	C	30.0	4.4
12	2	1460.	0.	0.	3224.	0.	0.	3224.	4100.	0.	0.	0.	.79	61.	26.3	D	21.0	3.9
13	3	1400.	428.	0.	3652.	428.	0.	3652.	6032.	68.	0.	0.	.61	62.	19.6	C	13.6	4.4
14	3	2600.	0.	580.	3652.	0.	580.	3652.	6032.	68.	0.	0.	.61	62.	19.6	C	20.6	4.4
15	2	2010.	0.	0.	3072.	0.	0.	3072.	3900.	0.	0.	0.	.79	62.	24.8	C	14.7	4.4
16	3	6120.	392.	588.	3464.	392.	588.	3464.	6100.	0.	0.	0.	.57	62.	18.6	C	18.2	4.4
17	2	1240.	0.	0.	2876.	0.	0.	2876.	4300.	0.	0.	0.	.67	62.	23.2	C	18.2	4.4
18	3	930.	240.	0.	3116.	240.	0.	3116.	6100.	0.	0.	0.	.51	62.	16.8	B	20.6	4.4
19	3	5330.	148.	516.	3264.	148.	516.	3264.	6091.	9.	0.	0.	.54	62.	17.5	B	20.6	4.4
20	2	2830.	0.	0.	2748.	0.	0.	2748.	3800.	0.	0.	0.	.72	61.	22.5	C	21.1	3.8
21	3	1660.	336.	476.	3084.	336.	476.	3084.	6100.	0.	0.	0.	.51	61.	16.9	B	21.1	3.8
22	2	2270.	0.	0.	2608.	0.	0.	2608.	4400.	0.	0.	0.	.59	62.	21.0	C	20.6	4.4
23	2	3040.	100.	264.	2708.	100.	264.	2708.	4100.	0.	0.	0.	.66	62.	21.8	C	20.6	4.4
24	2	2190.	0.	0.	2444.	0.	0.	2444.	4200.	0.	0.	0.	.58	65.	18.8	C	19.2	6.1
25	3	2400.	80.	2524.	2524.	80.	2524.	2524.	6150.	0.	0.	0.	.41	65.	12.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.82		LOWEST LOS = D	AVG = 61.	21.0		18.7	4.3

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 16 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	140. VEH-HRS	163. PASS-HRS	2301. VEH-HRS	2669. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	140. VEH-HRS	163. PASS-HRS	2301. VEH-HRS	2669. PASS-HRS
TOTAL TRAV DISTANCE =	8567. VEH-MI.	9938. PASS-MI.	137568. VEH-MI.	159578. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		22. VPMPL	
TOTAL FUEL =	457. GALLONS		7232. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		558. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2024.	0.	2024.	2024.	0.	2024.	3850.	0.	0.	0.	.53	50.	20.2	C	17.4	2.3
2	2	2070.	784.	0.	2808.	784.	0.	2808.	3837.	13.	0.	0.	.73	50.	28.1	D	15.9	2.3
3	3	2300.	1284.	248.	4092.	1284.	248.	4092.	5521.	179.	0.	0.	.74	55.	24.8	C	14.0	2.4
4	3	1020.	0.	0.	3844.	0.	0.	3844.	5700.	0.	0.	0.	.67	62.	20.7	C	19.9	4.8
5	3	710.	208.	0.	4052.	208.	0.	4052.	5700.	0.	0.	0.	.71	62.	21.8	C	16.1	4.4
6	3	3820.	344.	916.	4396.	344.	916.	4396.	6150.	0.	0.	0.	.71	62.	23.6	C	17.1	4.8
7	2	1220.	0.	0.	3480.	0.	0.	3480.	4400.	0.	0.	0.	.79	61.	28.4	D	18.5	3.9
8	3	4810.	520.	852.	4000.	520.	852.	4000.	6100.	0.	0.	0.	.66	62.	21.5	C	20.6	4.4
9	2	1370.	0.	0.	3148.	0.	0.	3148.	4000.	0.	0.	0.	.79	61.	25.7	C	24.0	3.9
10	2	660.	172.	0.	3320.	172.	0.	3320.	4385.	15.	0.	0.	.76	62.	26.9	D	23.8	4.1
11	3	790.	588.	688.	3908.	588.	688.	3908.	5599.	501.	0.	0.	.70	62.	21.0	C	30.0	4.4
12	2	1460.	0.	0.	3220.	0.	0.	3220.	4100.	0.	0.	0.	.79	61.	26.3	D	21.0	3.9
13	3	1400.	404.	0.	3624.	404.	0.	3624.	6036.	64.	0.	0.	.60	62.	19.5	C	13.6	4.4
14	3	2600.	0.	564.	3624.	0.	564.	3624.	6036.	64.	0.	0.	.60	62.	19.5	C	20.6	4.4
15	2	2010.	0.	0.	3060.	0.	0.	3060.	3900.	0.	0.	0.	.78	62.	24.7	C	14.7	4.4
16	3	6120.	340.	712.	3400.	340.	712.	3400.	6100.	0.	0.	0.	.56	62.	18.3	C	18.2	4.4
17	2	1240.	0.	0.	2688.	0.	0.	2688.	4300.	0.	0.	0.	.63	62.	21.7	C	18.2	4.4
18	3	930.	268.	0.	2956.	268.	0.	2956.	6100.	0.	0.	0.	.48	62.	15.9	B	20.6	4.4
19	3	5330.	140.	508.	3096.	140.	508.	3096.	6093.	7.	0.	0.	.51	62.	16.6	B	20.6	4.4
20	2	2830.	0.	0.	2588.	0.	0.	2588.	3800.	0.	0.	0.	.68	61.	21.2	C	21.1	3.8
21	3	1660.	260.	420.	2848.	260.	420.	2848.	6100.	0.	0.	0.	.47	61.	15.6	B	21.1	3.8
22	2	2270.	0.	0.	2428.	0.	0.	2428.	4400.	0.	0.	0.	.55	62.	19.6	C	20.6	4.4
23	2	3040.	92.	264.	2520.	92.	264.	2520.	4100.	0.	0.	0.	.61	62.	20.3	C	20.6	4.4
24	2	2190.	0.	0.	2256.	0.	0.	2256.	4200.	0.	0.	0.	.54	65.	17.4	B	19.2	6.1
25	3	2400.	72.	2328.	2328.	72.	2328.	2328.	6150.	0.	0.	0.	.38	65.	11.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.79		LOWEST LOS = D	AVG = 61.	20.6		18.7	4.3

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	138. VEH-HRS	160. PASS-HRS	2439. VEH-HRS	2829. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	138. VEH-HRS	160. PASS-HRS	2439. VEH-HRS	2829. PASS-HRS
TOTAL TRAV DISTANCE =	8399. VEH-MI.	9743. PASS-MI.	145967. VEH-MI.	169322. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	21. VPMPL		22. VPMPL	
TOTAL FUEL =	450. GALLONS		7682. GALLONS	
TOTAL EMISSIONS =	36. KILOGRAMS		594. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2072.	0.	2072.	2072.	0.	2072.	3850.	0.	0.	0.	.54	50.	20.7	C	17.4	2.3
2	2	2070.	796.	0.	2868.	796.	0.	2868.	3836.	14.	0.	0.	.75	50.	28.7	D	15.9	2.3
3	3	2300.	1368.	248.	4236.	1368.	248.	4236.	5524.	176.	0.	0.	.77	55.	25.7	C	14.0	2.4
4	3	1020.	0.	0.	3988.	0.	0.	3988.	5700.	0.	0.	0.	.70	62.	21.4	C	19.9	4.8
5	3	710.	272.	0.	4260.	272.	0.	4260.	5700.	0.	0.	0.	.75	62.	22.9	C	16.1	4.4
6	3	3820.	412.	948.	4672.	412.	948.	4672.	6134.	16.	0.	0.	.76	62.	25.3	C	17.3	4.6
7	2	1220.	0.	0.	3724.	0.	0.	3724.	4400.	0.	0.	0.	.85	60.	31.1	D	19.1	3.2
8	3	4810.	496.	788.	4220.	496.	788.	4220.	6100.	0.	0.	0.	.69	62.	22.7	C	20.6	4.4
9	2	1370.	0.	0.	3432.	0.	0.	3432.	4000.	0.	0.	0.	.86	59.	28.8	D	25.0	3.1
10	2	660.	232.	0.	3664.	232.	0.	3664.	4384.	16.	0.	0.	.84	60.	30.4	D	24.7	3.3
11	3	790.	612.	676.	4276.	612.	676.	4276.	5564.	536.	0.	0.	.77	62.	23.0	C	30.0	4.4
12	2	1460.	0.	0.	3600.	0.	0.	3600.	4100.	0.	0.	0.	.88	59.	30.6	D	22.0	2.9
13	3	1400.	432.	0.	4032.	432.	0.	4032.	6024.	76.	0.	0.	.67	62.	21.7	C	13.6	4.4
14	3	2600.	0.	716.	4032.	0.	716.	4032.	6024.	76.	0.	0.	.67	62.	21.7	C	20.6	4.4
15	2	2010.	0.	0.	3316.	0.	0.	3316.	3900.	0.	0.	0.	.85	60.	27.8	D	15.4	3.1
16	3	6120.	384.	636.	3700.	384.	636.	3700.	6100.	0.	0.	0.	.61	62.	19.9	C	18.2	4.4
17	2	1240.	0.	0.	3064.	0.	0.	3064.	4300.	0.	0.	0.	.71	62.	24.7	C	18.2	4.4
18	3	930.	312.	0.	3376.	312.	0.	3376.	6100.	0.	0.	0.	.55	62.	18.2	C	20.6	4.4
19	3	5330.	120.	464.	3496.	120.	464.	3496.	6085.	15.	0.	0.	.57	62.	18.8	C	20.6	4.4
20	2	2830.	0.	0.	3032.	0.	0.	3032.	3800.	0.	0.	0.	.80	61.	24.9	C	21.1	3.8
21	3	1660.	336.	408.	3368.	336.	408.	3368.	6100.	0.	0.	0.	.55	61.	18.4	C	21.1	3.8
22	2	2270.	0.	0.	2960.	0.	0.	2960.	4400.	0.	0.	0.	.67	62.	23.9	C	20.6	4.4
23	2	3040.	72.	288.	3032.	72.	288.	3032.	4100.	0.	0.	0.	.74	62.	24.5	C	20.6	4.4
24	2	2190.	0.	0.	2744.	0.	0.	2744.	4200.	0.	0.	0.	.65	65.	21.1	C	19.2	6.1
25	3	2400.	92.	2836.	2836.	92.	2836.	2836.	6150.	0.	0.	0.	.46	65.	14.5	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.88		LOWEST LOS = D	AVG = 61.	22.9		18.8	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	153. VEH-HRS	177. PASS-HRS	2591. VEH-HRS	3006. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	153. VEH-HRS	177. PASS-HRS	2591. VEH-HRS	3006. PASS-HRS
TOTAL TRAV DISTANCE =	9289. VEH-MI.	10775. PASS-MI.	155256. VEH-MI.	180097. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	493. GALLONS		8175. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		632. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2028.	0.	2028.	2028.	0.	2028.	3850.	0.	0.	0.	.53	50.	20.3	C	17.4	2.3
2	2	2070.	772.	0.	2800.	772.	0.	2800.	3836.	14.	0.	0.	.73	50.	28.0	D	15.9	2.3
3	3	2300.	1336.	248.	4136.	1336.	248.	4136.	5525.	175.	0.	0.	.75	55.	25.1	C	14.0	2.4
4	3	1020.	0.	0.	3888.	0.	0.	3888.	5700.	0.	0.	0.	.68	62.	20.9	C	19.9	4.8
5	3	710.	272.	0.	4160.	272.	0.	4160.	5700.	0.	0.	0.	.73	62.	22.4	C	16.1	4.4
6	3	3820.	300.	936.	4460.	300.	936.	4460.	6150.	0.	0.	0.	.73	62.	24.0	C	17.1	4.8
7	2	1220.	0.	0.	3524.	0.	0.	3524.	4400.	0.	0.	0.	.80	61.	28.9	D	18.6	3.8
8	3	4810.	520.	752.	4044.	520.	752.	4044.	6100.	0.	0.	0.	.66	62.	21.7	C	20.6	4.4
9	2	1370.	0.	0.	3292.	0.	0.	3292.	4000.	0.	0.	0.	.82	61.	27.2	D	24.5	3.5
10	2	660.	256.	0.	3548.	256.	0.	3548.	4384.	16.	0.	0.	.81	61.	29.2	D	24.3	3.7
11	3	790.	656.	580.	4204.	656.	580.	4204.	5588.	512.	0.	0.	.75	62.	22.6	C	30.0	4.4
12	2	1460.	0.	0.	3624.	0.	0.	3624.	4100.	0.	0.	0.	.88	59.	31.0	D	22.1	2.8
13	3	1400.	412.	0.	4036.	412.	0.	4036.	6016.	84.	0.	0.	.67	62.	21.7	C	13.6	4.4
14	3	2600.	0.	816.	4036.	0.	816.	4036.	6016.	84.	0.	0.	.67	62.	21.7	C	20.6	4.4
15	2	2010.	0.	0.	3220.	0.	0.	3220.	3900.	0.	0.	0.	.83	60.	26.6	D	15.2	3.4
16	3	6120.	328.	636.	3548.	328.	636.	3548.	6100.	0.	0.	0.	.58	62.	19.1	C	18.2	4.4
17	2	1240.	0.	0.	2912.	0.	0.	2912.	4300.	0.	0.	0.	.68	62.	23.5	C	18.2	4.4
18	3	930.	308.	0.	3220.	308.	0.	3220.	6100.	0.	0.	0.	.53	62.	17.3	B	20.6	4.4
19	3	5330.	96.	556.	3316.	96.	556.	3316.	6085.	15.	0.	0.	.54	62.	17.8	B	20.6	4.4
20	2	2830.	0.	0.	2760.	0.	0.	2760.	3800.	0.	0.	0.	.73	61.	22.6	C	21.1	3.8
21	3	1660.	344.	460.	3104.	344.	460.	3104.	6100.	0.	0.	0.	.51	61.	17.0	B	21.1	3.8
22	2	2270.	0.	0.	2644.	0.	0.	2644.	4400.	0.	0.	0.	.60	62.	21.3	C	20.6	4.4
23	2	3040.	80.	272.	2724.	80.	272.	2724.	4100.	0.	0.	0.	.66	62.	22.0	C	20.6	4.4
24	2	2190.	0.	0.	2452.	0.	0.	2452.	4200.	0.	0.	0.	.58	65.	18.9	C	19.2	6.1
25	3	2400.	116.	2568.	2568.	116.	2568.	2568.	6150.	0.	0.	0.	.42	65.	13.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.88 LOWEST LOS = D AVG = 61. 21.8 18.8 4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 19 OF 24

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	145. VEH-HRS	168. PASS-HRS	2736. VEH-HRS	3174. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	145. VEH-HRS	168. PASS-HRS	2736. VEH-HRS	3174. PASS-HRS
TOTAL TRAV DISTANCE =	8849. VEH-MI.	10264. PASS-MI.	164105. VEH-MI.	190361. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	22. VPMPL		22. VPMPL	
TOTAL FUEL =	472. GALLONS		8647. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		670. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2356.	0.	2356.	2356.	0.	2356.	3850.	0.	0.	0.	.61	50.	23.6	C	17.4	2.3
2	2	2070.	912.	0.	3268.	912.	0.	3268.	3824.	26.	0.	0.	.85	50.	32.7	D	15.9	2.3
3	3	2300.	1580.	384.	4848.	1580.	384.	4848.	5410.	290.	0.	0.	.90	55.	29.4	D	14.0	2.4
4	3	1020.	0.	0.	4464.	0.	0.	4464.	5700.	0.	0.	0.	.78	62.	24.0	C	19.9	4.8
5	3	710.	240.	0.	4704.	240.	0.	4704.	5700.	0.	0.	0.	.83	60.	25.9	C	16.7	3.4
6	3	3820.	412.	952.	5116.	412.	952.	5116.	6133.	17.	0.	0.	.83	60.	28.3	D	17.8	3.8
7	2	1220.	0.	0.	4164.	0.	0.	4164.	4400.	0.	0.	0.	.95	55.	37.6	E	20.3	2.1
8	3	4810.	596.	860.	4760.	596.	860.	4760.	6100.	0.	0.	0.	.78	61.	25.9	C	20.9	4.0
9	2	1370.	0.	0.	3900.	0.	0.	3900.	4000.	0.	0.	0.	.98	53.	36.5	E	27.7	2.0
10	2	660.	308.	0.	4208.	308.	0.	4208.	4378.	22.	0.	0.	.96	54.	38.7	E	27.3	2.0
11	3	790.	676.	760.	4884.	676.	760.	4860.	5502.	598. *	298.	24.	.88	47.	34.4	F	32.9	2.9
12	2	1460.	0.	0.	4124.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	448.	0.	4572.	448.	0.	4548.	5988.	112.	0.	0.	.76	62.	24.5	C	13.6	4.4
14	3	2600.	0.	1156.	4572.	0.	1150.	4548.	5988.	112.	0.	0.	.76	62.	24.5	C	20.6	4.4
15	2	2010.	0.	0.	3416.	0.	0.	3398.	3900.	0.	0.	0.	.87	59.	28.8	D	15.5	3.0
16	3	6120.	488.	756.	3904.	488.	753.	3886.	6100.	0.	0.	0.	.64	62.	20.9	C	18.2	4.4
17	2	1240.	0.	0.	3148.	0.	0.	3134.	4300.	0.	0.	0.	.73	62.	25.3	C	18.2	4.3
18	3	930.	452.	0.	3600.	452.	0.	3586.	6100.	0.	0.	0.	.59	62.	19.3	C	20.6	4.4
19	3	5330.	80.	524.	3680.	80.	522.	3666.	6073.	27.	0.	0.	.60	62.	19.7	C	20.6	4.4
20	2	2830.	0.	0.	3156.	0.	0.	3144.	3800.	0.	0.	0.	.83	60.	26.3	D	21.7	3.1
21	3	1660.	276.	412.	3432.	276.	411.	3420.	6100.	0.	0.	0.	.56	61.	18.7	C	21.1	3.8
22	2	2270.	0.	0.	3020.	0.	0.	3009.	4400.	0.	0.	0.	.68	62.	24.3	C	20.6	4.4
23	2	3040.	108.	264.	3128.	108.	263.	3117.	4100.	0.	0.	0.	.76	62.	25.3	C	20.8	4.1
24	2	2190.	0.	0.	2864.	0.	0.	2854.	4200.	0.	0.	0.	.68	65.	22.0	C	19.2	6.1
25	3	2400.	60.	2924.	2924.	60.	2914.	2914.	6150.	0.	0.	0.	.47	65.	14.9	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 60.	25.4		19.1	3.8

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	169. VEH-HRS	196. PASS-HRS	2905. VEH-HRS	3370. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	169. VEH-HRS	196. PASS-HRS	2905. VEH-HRS	3370. PASS-HRS
TOTAL TRAV DISTANCE =	10045. VEH-MI.	11652. PASS-MI.	174150. VEH-MI.	202014. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	25. VPMPL		22. VPMPL	
TOTAL FUEL =	526. GALLONS		9173. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		708. KILOGRAMS	

QUEUE CLEAR SECTION 11 FT= 0

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2292.	0.	2292.	2292.	0.	2292.	3850.	0.	0.	0.	.60	50.	22.9	C	17.4	2.3
2	2	2070.	540.	0.	2832.	540.	0.	2832.	3839.	11.	0.	0.	.74	50.	28.3	D	15.9	2.3
3	3	2300.	1464.	240.	4296.	1464.	240.	4296.	5527.	173.	0.	0.	.78	55.	26.0	D	14.0	2.4
4	3	1020.	0.	0.	4056.	0.	0.	4056.	5700.	0.	0.	0.	.71	62.	21.8	C	19.9	4.8
5	3	710.	244.	0.	4300.	244.	0.	4300.	5700.	0.	0.	0.	.75	62.	23.1	C	16.1	4.4
6	3	3820.	352.	876.	4652.	352.	876.	4652.	6150.	0.	0.	0.	.76	62.	25.2	C	17.3	4.6
7	2	1220.	0.	0.	3776.	0.	0.	3776.	4400.	0.	0.	0.	.86	59.	31.7	D	19.2	3.1
8	3	4810.	520.	684.	4296.	520.	684.	4296.	6100.	0.	0.	0.	.70	62.	23.1	C	20.6	4.4
9	2	1370.	0.	0.	3612.	0.	0.	3612.	4000.	0.	0.	0.	.90	58.	31.3	D	25.8	2.6
10	2	660.	312.	0.	3924.	312.	0.	3924.	4376.	24.	0.	0.	.90	58.	33.8	D	25.7	2.7
11	3	790.	688.	776.	4612.	688.	776.	4642.	5500.	600.	0.	-30.	.84	46.	33.5	D	30.1	4.3
12	2	1460.	0.	0.	3836.	0.	0.	3866.	4100.	0.	0.	0.	.94	56.	34.8	D	23.0	2.1
13	3	1400.	476.	0.	4312.	476.	0.	4342.	6012.	88.	0.	0.	.72	62.	23.3	C	13.6	4.4
14	3	2600.	0.	812.	4312.	0.	818.	4342.	6012.	88.	0.	0.	.72	62.	23.3	C	20.6	4.4
15	2	2010.	0.	0.	3500.	0.	0.	3524.	3900.	0.	0.	0.	.90	58.	30.6	D	15.8	2.6
16	3	6120.	476.	724.	3976.	476.	728.	4000.	6100.	0.	0.	0.	.66	62.	21.5	C	18.2	4.4
17	2	1240.	0.	0.	3252.	0.	0.	3272.	4300.	0.	0.	0.	.76	62.	26.6	D	18.3	4.1
18	3	930.	476.	0.	3728.	476.	0.	3748.	6100.	0.	0.	0.	.61	62.	20.1	C	20.6	4.4
19	3	5330.	108.	564.	3836.	108.	567.	3856.	6066.	34.	0.	0.	.64	62.	20.7	C	20.6	4.4
20	2	2830.	0.	0.	3272.	0.	0.	3289.	3800.	0.	0.	0.	.87	59.	28.0	D	22.0	2.9
21	3	1660.	344.	480.	3616.	344.	482.	3633.	6070.	30.	0.	0.	.60	61.	19.9	C	21.1	3.8
22	2	2270.	0.	0.	3136.	0.	0.	3151.	4400.	0.	0.	0.	.72	62.	25.4	C	20.6	4.3
23	2	3040.	100.	364.	3236.	100.	366.	3251.	4100.	0.	0.	0.	.79	61.	26.6	D	21.0	3.9
24	2	2190.	0.	0.	2872.	0.	0.	2885.	4200.	0.	0.	0.	.69	65.	22.2	C	19.2	6.1
25	3	2400.	76.	2948.	2948.	76.	2961.	2961.	6150.	0.	0.	0.	.48	65.	15.2	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.94 LOWEST LOS = D AVG = 60. 24.5 19.0 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	163. VEH-HRS	189. PASS-HRS	3068. VEH-HRS	3559. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	163. VEH-HRS	189. PASS-HRS	3068. VEH-HRS	3559. PASS-HRS
TOTAL TRAV DISTANCE =	9790. VEH-MI.	11357. PASS-MI.	183940. VEH-MI.	213370. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	25. VPMPL		22. VPMPL	
TOTAL FUEL =	516. GALLONS		9689. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		748. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	1972.	0.	1972.	1972.	0.	1972.	3850.	0.	0.	0.	.51	50.	19.7	C	17.4	2.3
2	2	2070.	704.	0.	2676.	704.	0.	2676.	3838.	12.	0.	0.	.70	50.	26.8	D	15.9	2.3
3	3	2300.	1416.	300.	4092.	1416.	300.	4092.	5489.	211.	0.	0.	.75	55.	24.8	C	14.0	2.4
4	3	1020.	0.	0.	3792.	0.	0.	3792.	5700.	0.	0.	0.	.67	62.	20.4	C	19.9	4.8
5	3	710.	292.	0.	4084.	292.	0.	4084.	5700.	0.	0.	0.	.72	62.	22.0	C	16.1	4.4
6	3	3820.	408.	956.	4492.	408.	956.	4492.	6134.	16.	0.	0.	.73	62.	24.2	C	17.1	4.8
7	2	1220.	0.	0.	3536.	0.	0.	3536.	4400.	0.	0.	0.	.80	61.	29.0	D	18.6	3.7
8	3	4810.	672.	800.	4208.	672.	800.	4208.	6100.	0.	0.	0.	.69	62.	22.6	C	20.6	4.4
9	2	1370.	0.	0.	3408.	0.	0.	3408.	4000.	0.	0.	0.	.85	60.	28.5	D	24.9	3.1
10	2	660.	444.	0.	3852.	444.	0.	3852.	4365.	35.	0.	0.	.88	59.	32.9	D	25.4	2.8
11	3	790.	696.	772.	4548.	696.	772.	4548.	5483.	617.	0.	0.	.83	62.	24.5	C	30.0	4.4
12	2	1460.	0.	0.	3776.	0.	0.	3776.	4100.	0.	0.	0.	.92	57.	33.2	D	22.6	2.4
13	3	1400.	340.	0.	4116.	340.	0.	4116.	6056.	44.	0.	0.	.68	62.	22.1	C	13.6	4.4
14	3	2600.	0.	540.	4116.	0.	540.	4116.	6056.	44.	0.	0.	.68	62.	22.1	C	20.6	4.4
15	2	2010.	0.	0.	3576.	0.	0.	3576.	3900.	0.	0.	0.	.92	57.	31.4	D	16.0	2.5
16	3	6120.	448.	708.	4024.	448.	708.	4024.	6100.	0.	0.	0.	.66	62.	21.6	C	18.2	4.4
17	2	1240.	0.	0.	3316.	0.	0.	3316.	4300.	0.	0.	0.	.77	61.	27.0	D	18.4	4.0
18	3	930.	324.	0.	3640.	324.	0.	3640.	6100.	0.	0.	0.	.60	62.	19.6	C	20.6	4.4
19	3	5330.	160.	672.	3800.	160.	672.	3800.	6076.	24.	0.	0.	.63	62.	20.4	C	20.6	4.4
20	2	2830.	0.	0.	3128.	0.	0.	3128.	3800.	0.	0.	0.	.82	61.	25.6	C	21.1	3.8
21	3	1660.	316.	404.	3444.	316.	404.	3444.	6100.	0.	0.	0.	.56	61.	18.8	C	21.1	3.8
22	2	2270.	0.	0.	3040.	0.	0.	3040.	4400.	0.	0.	0.	.69	62.	24.5	C	20.6	4.4
23	2	3040.	88.	420.	3128.	88.	420.	3128.	4100.	0.	0.	0.	.76	62.	25.4	C	20.8	4.1
24	2	2190.	0.	0.	2708.	0.	0.	2708.	4200.	0.	0.	0.	.64	65.	20.8	C	19.2	6.1
25	3	2400.	108.	2816.	2816.	108.	2816.	2816.	6150.	0.	0.	0.	.46	65.	14.4	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.92		LOWEST LOS = D	AVG = 61.	23.5		18.9	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	156. VEH-HRS	181. PASS-HRS	3224. VEH-HRS	3740. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	156. VEH-HRS	181. PASS-HRS	3224. VEH-HRS	3740. PASS-HRS
TOTAL TRAV DISTANCE =	9490. VEH-MI.	11009. PASS-MI.	193430. VEH-MI.	224379. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	23. VPMPL		22. VPMPL	
TOTAL FUEL =	502. GALLONS		10191. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		787. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2136.	0.	2136.	2136.	0.	2136.	3850.	0.	0.	0.	.55	50.	21.4	C	17.4	2.3
2	2	2070.	712.	0.	2848.	712.	0.	2848.	3834.	16.	0.	0.	.74	50.	28.5	D	15.9	2.3
3	3	2300.	1564.	320.	4412.	1564.	320.	4412.	5474.	226.	0.	0.	.81	55.	26.7	D	14.0	2.4
4	3	1020.	0.	0.	4092.	0.	0.	4092.	5700.	0.	0.	0.	.72	62.	22.0	C	19.9	4.8
5	3	710.	208.	0.	4300.	208.	0.	4300.	5700.	0.	0.	0.	.75	62.	23.1	C	16.1	4.4
6	3	3820.	368.	968.	4668.	368.	968.	4668.	6135.	15.	0.	0.	.76	62.	25.3	C	17.3	4.6
7	2	1220.	0.	0.	3700.	0.	0.	3700.	4400.	0.	0.	0.	.84	60.	30.8	D	19.0	3.2
8	3	4810.	668.	836.	4368.	668.	836.	4368.	6100.	0.	0.	0.	.72	62.	23.5	C	20.6	4.4
9	2	1370.	0.	0.	3532.	0.	0.	3532.	4000.	0.	0.	0.	.88	59.	30.2	D	25.4	2.8
10	2	660.	288.	0.	3820.	288.	0.	3820.	4378.	22.	0.	0.	.87	59.	32.4	D	25.2	2.9
11	3	790.	736.	744.	4556.	736.	744.	4556.	5458.	642.	0.	0.	.83	62.	24.5	C	30.0	4.4
12	2	1460.	0.	0.	3812.	0.	0.	3812.	4100.	0.	0.	0.	.93	56.	33.8	D	22.7	2.3
13	3	1400.	456.	0.	4268.	456.	0.	4268.	6032.	68.	0.	0.	.71	62.	22.9	C	13.6	4.4
14	3	2600.	0.	632.	4268.	0.	632.	4268.	6032.	68.	0.	0.	.71	62.	22.9	C	20.6	4.4
15	2	2010.	0.	0.	3636.	0.	0.	3636.	3900.	0.	0.	0.	.93	56.	32.4	D	16.1	2.3
16	3	6120.	476.	980.	4112.	476.	980.	4112.	6100.	0.	0.	0.	.67	62.	22.1	C	18.2	4.4
17	2	1240.	0.	0.	3132.	0.	0.	3132.	4300.	0.	0.	0.	.73	62.	25.3	C	18.2	4.3
18	3	930.	320.	0.	3452.	320.	0.	3452.	6100.	0.	0.	0.	.57	62.	18.6	C	20.6	4.4
19	3	5330.	136.	544.	3588.	136.	544.	3588.	6082.	18.	0.	0.	.59	62.	19.3	C	20.6	4.4
20	2	2830.	0.	0.	3044.	0.	0.	3044.	3800.	0.	0.	0.	.80	61.	25.0	C	21.1	3.8
21	3	1660.	376.	496.	3420.	376.	496.	3420.	6052.	48.	0.	0.	.57	61.	18.7	C	21.1	3.8
22	2	2270.	0.	0.	2924.	0.	0.	2924.	4400.	0.	0.	0.	.66	62.	23.6	C	20.6	4.4
23	2	3040.	96.	408.	3020.	96.	408.	3020.	4100.	0.	0.	0.	.74	62.	24.4	C	20.6	4.4
24	2	2190.	0.	0.	2612.	0.	0.	2612.	4200.	0.	0.	0.	.62	65.	20.1	C	19.2	6.1
25	3	2400.	76.	2688.	2688.	76.	2688.	2688.	6150.	0.	0.	0.	.44	65.	13.8	B	18.6	6.6
TOTAL		54750. =	10.4 MILES								MAX(V/C) = 0.93		LOWEST LOS = D	AVG = 61.	23.7		18.9	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	158. VEH-HRS	183. PASS-HRS	3382. VEH-HRS	3923. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	158. VEH-HRS	183. PASS-HRS	3382. VEH-HRS	3923. PASS-HRS
TOTAL TRAV DISTANCE =	9577. VEH-MI.	11109. PASS-MI.	203007. VEH-MI.	235488. PASS-MI.
AVERAGE SYSTEM SPEED =	61. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	507. GALLONS		10698. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		826. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	500.	2204.	0.	2204.	2204.	0.	2204.	3850.	0.	0.	0.	.57	50.	22.0	C	17.4	2.3
2	2	2070.	756.	0.	2960.	756.	0.	2960.	3830.	20.	0.	0.	.77	50.	29.6	D	15.9	2.3
3	3	2300.	1692.	364.	4652.	1692.	364.	4652.	5446.	254.	0.	0.	.85	55.	28.2	D	14.0	2.4
4	3	1020.	0.	0.	4288.	0.	0.	4288.	5700.	0.	0.	0.	.75	62.	23.1	C	19.9	4.8
5	3	710.	244.	0.	4532.	244.	0.	4532.	5700.	0.	0.	0.	.80	62.	24.4	C	16.1	4.4
6	3	3820.	404.	1024.	4936.	404.	1024.	4936.	6102.	48.	0.	0.	.81	61.	27.1	D	17.6	4.1
7	2	1220.	0.	0.	3912.	0.	0.	3912.	4400.	0.	0.	0.	.89	58.	33.5	D	19.5	2.8
8	3	4810.	616.	912.	4528.	616.	912.	4528.	6100.	0.	0.	0.	.74	62.	24.3	C	20.6	4.4
9	2	1370.	0.	0.	3616.	0.	0.	3616.	4000.	0.	0.	0.	.90	58.	31.4	D	25.8	2.6
10	2	660.	276.	0.	3892.	276.	0.	3892.	4376.	24.	0.	0.	.89	58.	33.4	D	25.5	2.8
11	3	790.	772.	856.	4664.	772.	856.	4664.	5440.	660.	0.	0.	.86	60.	26.1	D	32.0	3.1
12	2	1460.	0.	0.	3808.	0.	0.	3808.	4100.	0.	0.	0.	.93	56.	33.8	D	22.7	2.3
13	3	1400.	484.	0.	4292.	484.	0.	4292.	6012.	88.	0.	0.	.71	62.	23.1	C	13.6	4.4
14	3	2600.	0.	768.	4292.	0.	768.	4292.	6012.	88.	0.	0.	.71	62.	23.1	C	20.6	4.4
15	2	2010.	0.	0.	3524.	0.	0.	3524.	3900.	0.	0.	0.	.90	58.	30.6	D	15.8	2.6
16	3	6120.	328.	720.	3852.	328.	720.	3852.	6100.	0.	0.	0.	.63	62.	20.7	C	18.2	4.4
17	2	1240.	0.	0.	3132.	0.	0.	3132.	4300.	0.	0.	0.	.73	62.	25.3	C	18.2	4.3
18	3	930.	280.	0.	3412.	280.	0.	3412.	6100.	0.	0.	0.	.56	62.	18.3	C	20.6	4.4
19	3	5330.	144.	584.	3556.	144.	584.	3556.	6082.	18.	0.	0.	.58	62.	19.1	C	20.6	4.4
20	2	2830.	0.	0.	2972.	0.	0.	2972.	3800.	0.	0.	0.	.78	61.	24.4	C	21.1	3.8
21	3	1660.	344.	456.	3316.	344.	456.	3316.	6100.	0.	0.	0.	.54	61.	18.1	C	21.1	3.8
22	2	2270.	0.	0.	2860.	0.	0.	2860.	4400.	0.	0.	0.	.65	62.	23.1	C	20.6	4.4
23	2	3040.	96.	364.	2956.	96.	364.	2956.	4100.	0.	0.	0.	.72	62.	23.8	C	20.6	4.4
24	2	2190.	0.	0.	2592.	0.	0.	2592.	4200.	0.	0.	0.	.62	65.	19.9	C	19.2	6.1
25	3	2400.	124.	2716.	2716.	124.	2716.	2716.	6150.	0.	0.	0.	.44	65.	13.9	B	18.6	6.6

TOTAL 54750. = 10.4 MILES MAX(V/C) = 0.93 LOWEST LOS = D AVG = 60. 23.9 18.9 4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	159. VEH-HRS	185. PASS-HRS	3541. VEH-HRS	4108. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	159. VEH-HRS	185. PASS-HRS	3541. VEH-HRS	4108. PASS-HRS
TOTAL TRAV DISTANCE =	9617. VEH-MI.	11156. PASS-MI.	212624. VEH-MI.	246644. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		60. MPH.	
AVERAGE DENSITY =	24. VPMPL		22. VPMPL	
TOTAL FUEL =	509. GALLONS		11207. GALLONS	
TOTAL EMISSIONS =	39. KILOGRAMS		864. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
1	74.	86.	0.	0.	74.	86.	4545.	5273.	61.5	241.	1.	15.	4.	14:00
2	92.	106.	0.	0.	92.	106.	5627.	6527.	61.4	299.	1.	19.	5.	14:15
3	134.	156.	0.	0.	134.	156.	8189.	9499.	61.0	431.	1.	26.	7.	14:30
4	162.	188.	0.	0.	162.	188.	9678.	11226.	59.8	502.	1.	27.	8.	14:45
5	132.	153.	0.	0.	132.	153.	8076.	9368.	61.2	425.	1.	26.	7.	15:00
6	154.	179.	0.	0.	154.	179.	9307.	10796.	60.4	485.	1.	28.	8.	15:15
7	174.	201.	0.	0.	174.	201.	10212.	11846.	58.8	525.	1.	28.	9.	15:30
8	185.	215.	0.	0.	185.	215.	10376.	12036.	56.0	534.	1.	29.	9.	15:45
9	187.	216.	0.	0.	187.	216.	10616.	12314.	56.9	550.	1.	28.	9.	16:00
10	136.	158.	0.	0.	136.	158.	8353.	9689.	61.3	445.	1.	28.	7.	16:15
11	160.	186.	0.	0.	160.	186.	9714.	11269.	60.6	512.	1.	29.	8.	16:30
12	134.	155.	0.	0.	134.	155.	8180.	9489.	61.1	437.	1.	26.	7.	16:45
13	159.	184.	0.	0.	159.	184.	9378.	10878.	59.0	494.	1.	28.	8.	17:00
14	144.	167.	0.	0.	144.	167.	8561.	9931.	59.3	456.	1.	27.	8.	17:15
15	134.	155.	0.	0.	134.	155.	8189.	9500.	61.2	438.	1.	27.	7.	17:30
16	140.	163.	0.	0.	140.	163.	8567.	9938.	61.1	457.	1.	28.	8.	17:45
17	138.	160.	0.	0.	138.	160.	8399.	9743.	61.1	450.	1.	27.	7.	18:00
18	153.	177.	0.	0.	153.	177.	9289.	10775.	60.9	493.	1.	29.	8.	18:15
19	145.	168.	0.	0.	145.	168.	8849.	10264.	60.9	472.	1.	28.	8.	18:30
20	169.	196.	0.	0.	169.	196.	10045.	11652.	59.5	526.	1.	29.	9.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	163.	189.	0.	0.	163.	189.	9790.	11357.	60.1	516.	1.	30.	9.	19:00
22	156.	181.	0.	0.	156.	181.	9490.	11009.	60.8	502.	1.	30.	8.	19:15
23	158.	183.	0.	0.	158.	183.	9577.	11109.	60.6	507.	1.	29.	8.	19:30
24	159.	185.	0.	0.	159.	185.	9617.	11156.	60.4	509.	1.	29.	8.	19:45
TOTAL	3541.	4108.	0.	0.	3541.	4108.	212624.	246644.	60.0	11207.	31.	649.	185.	

Horizon Year (2045) Final Build
(Aux Lanes and BOS)
Southbound PM

```
FFFFFFFFFF RRRRRRRRR  EEEEEEEEEE     QQQQQQQ         1111      222222     PPPPPPPPP     EEEEEEEEEE
FFFFFFFFFF RRRRRRRRRR EEEEEEEEEE   Q*A.D.MAY*Q     111111     222  222    PPPPPPPPPP    EEEEEEEEEE
FFF        RRR    RRR EEE         QQQQQ    QQQQQ     1111    222    222   PPP    PPP    EEE
FFF        RRR    RRR EEE        QQQQ        QQQQ    1111           222   PPP    PPP    EEE
FFFFFFF    RRRRRRRRRR EEEEEEE    QQQQ        QQQQ    1111          222    PPPPPPPPPP    EEEEEEE
FFFFFFF    RRRRRRRRR  EEEEEEE    QQQQ        QQQQ    1111        2222     PPPPPPPPP     EEEEEEE
FFF        RRR RRR    EEE        QQQQ    QQQ QQQQ    1111      2222       PPP           EEE
FFF        RRR  RRR   EEE         Q*UC*    QQQQQ     1111     222         PPP           EEE
FFF        RRR   RRR  EEEEEEEEEE   Q*REGENTS*QQ      1111    222          PPP           EEEEEEEEEE
FFF        RRR    RRR EEEEEEEEEE     Q*1999*Q QQQ  11111111  2222222222   PPP           EEEEEEEEEE
```

FREQ12PE

1. THIS IS A SIMULATION ONLY EXECUTION.

2. THERE ARE 4.0 TIME SLICES PER HOUR.

3. WEAVING ANALYSIS IS ENGAGED WITH FACTOR = 0.5

4. NO ALTERNATE ROUTE IS PROVIDED.

5. SPEED FLOW DATA IS SUPPLIED BY THE PROGRAM. DEFAULT FREE-FLOW SPEED = 62
   LOWER LIMB (AT V/C=1) = 40

6. FUEL DATA ARE SUPPLIED BY THE PROGRAM.

7. EMISSION RATES SELECTED FROM PROGRAM TABLES: EMFAC7E 2010 - 85 DEGREES F.

8. DEMAND COUNTS HAVE BEEN "TILTED" USING A TILTING SPEED OF 60 MILES/HOUR.
   THE NUMBER OF TIME SLICES HAS BEEN REDUCED TO 23

***** INPUT HAS BEEN COMPLETED *****

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2440.	0.	2440.	2440.	0.	2440.	3850.	0.	0.	0.	.63	50.	24.4	C	17.4	2.3
2	2	2070.	620.	0.	3060.	620.	0.	3060.	3833.	17.	0.	0.	.80	50.	30.6	D	15.9	2.3
3	3	2300.	1688.	328.	4748.	1688.	328.	4748.	5869.	231.	0.	0.	.81	55.	28.8	D	14.0	2.4
4	3	1020.	0.	0.	4420.	0.	0.	4420.	6100.	0.	0.	0.	.72	62.	23.8	C	19.9	4.8
5	3	710.	256.	0.	4676.	256.	0.	4676.	6100.	0.	0.	0.	.77	62.	25.3	C	16.3	4.1
6	3	3820.	408.	1056.	5084.	408.	1056.	5084.	6085.	65.	0.	0.	.84	60.	28.2	D	17.9	3.7
7	2	1220.	0.	0.	4028.	0.	0.	4028.	4400.	0.	0.	0.	.92	57.	35.3	E	19.8	2.5
8	3	4810.	588.	792.	4616.	588.	792.	4616.	6100.	0.	0.	0.	.76	62.	24.8	C	20.6	4.4
9	2	1370.	0.	0.	3824.	0.	0.	3824.	4000.	0.	0.	0.	.96	55.	34.9	D	27.2	2.0
10	2	660.	380.	0.	4204.	380.	0.	4204.	4369.	31.	0.	0.	.96	54.	38.7	E	27.3	2.0
11	3	790.	836.	916.	5040.	836.	916.	5016.	5379.	721.	* 428.	24.	.93	46.	36.6	F	35.3	2.4
12	2	1460.	0.	0.	4124.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	572.	0.	4696.	572.	0.	4672.	6016.	84.	0.	0.	.78	61.	25.4	C	13.7	4.0
14	3	2600.	0.	692.	4696.	0.	688.	4588.	6016.	84.	* 578.	84.	.76	48.	31.9	F	20.4	4.1
15	2	2010.	0.	0.	4004.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	508.	748.	4512.	508.	731.	4408.	6100.	0.	0.	0.	.72	62.	23.7	C	18.2	4.4
17	2	1240.	0.	0.	3764.	0.	0.	3677.	4300.	0.	0.	0.	.86	60.	30.9	D	19.2	3.1
18	3	930.	588.	0.	4352.	588.	0.	4265.	6098.	2.	0.	0.	.70	62.	22.9	C	20.6	4.4
19	3	5330.	132.	648.	4484.	132.	635.	4397.	6050.	50.	0.	0.	.73	62.	23.6	C	20.6	4.4
20	2	2830.	0.	0.	3836.	0.	0.	3762.	3800.	0.	0.	0.	.99	52.	36.1	E	23.8	2.0
21	3	1660.	468.	572.	4304.	468.	562.	4230.	5896.	204.	0.	0.	.72	61.	23.1	C	21.1	3.8
22	2	2270.	0.	0.	3732.	0.	0.	3668.	4400.	0.	0.	0.	.83	60.	30.4	D	21.5	3.3
23	2	3040.	160.	384.	3892.	160.	378.	3828.	4100.	0.	0.	0.	.93	56.	34.1	D	22.8	2.3
24	2	2190.	0.	0.	3508.	0.	0.	3450.	4200.	0.	0.	0.	.82	63.	27.6	D	20.3	4.7
25	3	2400.	132.	3640.	3640.	132.	3582.	3582.	6150.	0.	0.	0.	.58	65.	18.4	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 57.	28.1		19.3	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	202. VEH-HRS	238. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	202. VEH-HRS	238. PASS-HRS	202. VEH-HRS	238. PASS-HRS
TOTAL TRAV DISTANCE =	11562. VEH-MI.	13643. PASS-MI.	11562. VEH-MI.	13643. PASS-MI.
AVERAGE SYSTEM SPEED =	57. MPH.		57. MPH.	
AVERAGE DENSITY =	28. VPMPL		28. VPMPL	
TOTAL FUEL =	600. GALLONS		600. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		41. KILOGRAMS	

```
QUEUE COLLISION IN SECTION  11 T2 =0.013
QUEUE COLLISION IN SECTION  10 T2 =0.030
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3172.	0.	3172.	3172.	0.	3172.	3850.	0.	0.	0.	.82	50.	31.7	D	17.4	2.3
2	2	2070.	572.	0.	3744.	572.	0.	3744.	3831.	19.	0.	0.	.98	50.	37.4	E	15.9	2.3
3	3	2300.	1512.	372.	5256.	1512.	372.	5256.	5815.	285.	0.	0.	.90	54.	32.5	D	14.1	2.4
4	3	1020.	0.	0.	4884.	0.	0.	4884.	6100.	0.	0.	0.	.80	61.	26.7	D	20.4	4.2
5	3	710.	192.	0.	5076.	192.	0.	5076.	6100.	0.	0.	0.	.83	60.	28.1	D	16.8	3.3
6	3	3820.	336.	1248.	5412.	336.	1248.	5412.	6059.	91.	0.	0.	.89	58.	31.0	D	18.4	3.2
7	2	1220.	0.	0.	4164.	0.	0.	4164.	4400.	0.	0.	0.	.95	55.	37.6	E	20.3	2.1
8	3	4810.	640.	804.	4804.	640.	804.	4452.	6100.	0.	* 1634.	352.	.73	46.	32.6	F	20.3	4.0
9	2	1370.	0.	0.	4000.	0.	0.	3648.	4000.	0.	** 1370.	352.	.91	31.	58.4	F	27.9	2.9
10	2	660.	384.	0.	4384.	384.	0.	4032.	4369.	31.	** 660.	337.	.92	31.	65.8	F	28.2	2.9
11	3	790.	988.	932.	5372.	988.	920.	5020.	5303.	797.	** 790.	283.	.95	32.	51.7	F	36.9	2.7
12	2	1460.	0.	0.	4440.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	528.	0.	4968.	528.	0.	4628.	6028.	72.	0.	0.	.77	62.	25.1	C	13.7	4.1
14	3	2600.	0.	684.	4968.	0.	637.	4537.	6028.	72.	* 1186.	91.	.75	32.	46.8	F	19.3	4.3
15	2	2010.	0.	0.	4284.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	528.	772.	4812.	528.	710.	4428.	6100.	0.	0.	0.	.73	62.	23.8	C	18.2	4.4
17	2	1240.	0.	0.	4040.	0.	0.	3718.	4300.	0.	0.	0.	.86	59.	31.4	D	19.2	3.0
18	3	930.	556.	0.	4596.	556.	0.	4274.	6096.	4.	0.	0.	.70	62.	23.0	C	20.6	4.4
19	3	5330.	156.	696.	4752.	156.	649.	4430.	6046.	54.	0.	0.	.73	62.	23.8	C	20.6	4.4
20	2	2830.	0.	0.	4056.	0.	0.	3781.	3800.	0.	0.	0.	.99	52.	36.6	E	23.9	2.0
21	3	1660.	516.	652.	4572.	516.	613.	4297.	5811.	289.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3920.	0.	0.	3684.	4400.	0.	0.	0.	.84	60.	30.6	D	21.6	3.3
23	2	3040.	112.	464.	4032.	112.	437.	3796.	4100.	0.	0.	0.	.93	57.	33.6	D	22.7	2.4
24	2	2190.	0.	0.	3568.	0.	0.	3359.	4200.	0.	0.	0.	.80	63.	26.6	D	20.0	5.0
25	3	2400.	104.	3672.	3672.	104.	3463.	3463.	6150.	0.	0.	0.	.56	65.	17.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 52.	31.8		19.2	3.5

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	230. VEH-HRS	271. PASS-HRS	432. VEH-HRS	509. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	230. VEH-HRS	271. PASS-HRS	432. VEH-HRS	509. PASS-HRS
TOTAL TRAV DISTANCE =	12015. VEH-MI.	14177. PASS-MI.	23577. VEH-MI.	27821. PASS-MI.
AVERAGE SYSTEM SPEED =	52. MPH.		55. MPH.	
AVERAGE DENSITY =	32. VPMPL		30. VPMPL	
TOTAL FUEL =	626. GALLONS		1225. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		83. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2556.	0.	2556.	2556.	0.	2556.	3850.	0.	0.	0.	.66	50.	25.6	C	17.4	2.3
2	2	2070.	540.	0.	3096.	540.	0.	3096.	3832.	18.	0.	0.	.81	50.	31.0	D	15.9	2.3
3	3	2300.	1784.	396.	4880.	1784.	396.	4880.	5828.	272.	0.	0.	.84	55.	29.6	D	14.0	2.4
4	3	1020.	0.	0.	4484.	0.	0.	4484.	6100.	0.	0.	0.	.74	62.	24.1	C	19.9	4.8
5	3	710.	196.	0.	4680.	196.	0.	4680.	6100.	0.	0.	0.	.77	62.	25.4	C	16.3	4.1
6	3	3820.	324.	1048.	5004.	324.	1048.	5004.	6124.	26.	0.	0.	.82	61.	27.5	D	17.7	4.0
7	2	1220.	0.	0.	3956.	0.	0.	3956.	4400.	0.	0.	0.	.90	58.	34.2	D	19.6	2.7
8	3	4810.	584.	784.	4540.	584.	784.	4320.	6100.	0. *	2927.	220.	.71	25.	58.4	F	18.1	4.8
9	2	1370.	0.	0.	3756.	0.	0.	3536.	4000.	0. **	1370.	220.	.88	26.	69.0	F	26.7	3.4
10	2	660.	480.	0.	4236.	480.	0.	4016.	4362.	38. **	660.	220.	.92	29.	68.6	F	28.1	3.0
11	3	790.	1020.	936.	5256.	1020.	936.	5036.	5298.	802. **	790.	220.	.95	33.	51.3	F	36.9	2.7
12	2	1460.	0.	0.	4320.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	612.	0.	4932.	612.	0.	4712.	6000.	100.	0.	0.	.79	61.	25.6	C	13.7	3.9
14	3	2600.	0.	800.	4932.	0.	764.	4664.	6000.	100. *	1531.	48.	.78	27.	57.1	F	19.0	4.3
15	2	2010.	0.	0.	4132.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	616.	804.	4748.	616.	765.	4516.	6100.	0.	0.	0.	.74	62.	24.3	C	18.2	4.4
17	2	1240.	0.	0.	3944.	0.	0.	3751.	4300.	0.	0.	0.	.87	59.	31.8	D	19.3	2.9
18	3	930.	584.	0.	4528.	584.	0.	4335.	6096.	4.	0.	0.	.71	62.	23.3	C	20.6	4.4
19	3	5330.	192.	676.	4720.	192.	648.	4448.	6046.	54. *	499.	79.	.74	55.	27.1	F	20.3	4.4
20	2	2830.	0.	0.	4044.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	496.	664.	4540.	496.	628.	4296.	5824.	276.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3876.	0.	0.	3668.	4400.	0.	0.	0.	.83	60.	30.4	D	21.5	3.3
23	2	3040.	128.	416.	4004.	128.	394.	3796.	4100.	0.	0.	0.	.93	57.	33.6	D	22.7	2.4
24	2	2190.	0.	0.	3588.	0.	0.	3402.	4200.	0.	0.	0.	.81	63.	27.1	D	20.2	4.9
25	3	2400.	96.	3684.	3684.	96.	3498.	3498.	6150.	0.	0.	0.	.57	65.	17.9	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 47.	33.6		18.9	3.7

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	247. VEH-HRS	291. PASS-HRS	679. VEH-HRS	801. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	247. VEH-HRS	291. PASS-HRS	679. VEH-HRS	801. PASS-HRS
TOTAL TRAV DISTANCE =	11601. VEH-MI.	13689. PASS-MI.	35178. VEH-MI.	41510. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		52. MPH.	
AVERAGE DENSITY =	34. VPMPL		31. VPMPL	
TOTAL FUEL =	613. GALLONS		1838. GALLONS	
TOTAL EMISSIONS =	43. KILOGRAMS		125. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3168.	0.	3168.	3168.	0.	3168.	3850.	0.	0.	0.	.82	50.	31.7	D	17.4	2.3
2	2	2070.	472.	0.	3640.	472.	0.	3640.	3835.	15.	0.	0.	.95	50.	36.4	E	15.9	2.3
3	3	2300.	1644.	356.	5284.	1644.	356.	5284.	5839.	261.	0.	0.	.90	54.	32.7	D	14.1	2.4
4	3	1020.	0.	0.	4928.	0.	0.	4928.	6100.	0.	0.	0.	.81	61.	27.0	D	20.5	4.1
5	3	710.	188.	0.	5116.	188.	0.	5116.	6100.	0.	0.	0.	.84	60.	28.4	D	16.9	3.2
6	3	3820.	284.	1120.	5400.	284.	1120.	5400.	6116.	34.	0.	0.	.88	59.	30.7	D	18.3	3.3
7	2	1220.	0.	0.	4280.	0.	0.	3975.	4400.	0.	* 371.	305.	.90	53.	37.4	F	20.7	2.0
8	3	4810.	564.	888.	4844.	564.	888.	4539.	6100.	0.	** 4810.	305.	.74	19.	80.0	F	17.5	4.8
9	2	1370.	0.	0.	3956.	0.	0.	3651.	4000.	0.	** 1370.	305.	.91	28.	64.2	F	27.8	3.1
10	2	660.	356.	0.	4312.	356.	0.	4007.	4371.	29.	** 660.	305.	.92	29.	69.5	F	27.9	3.0
11	3	790.	1056.	980.	5368.	1056.	963.	5063.	5277.	823.	** 790.	214.	.96	34.	49.8	F	36.7	2.6
12	2	1460.	0.	0.	4388.	0.	0.	4100.	4100.	0.	0.	0.	1.00	52.	39.8	E	23.9	2.0
13	3	1400.	644.	0.	5032.	644.	0.	4575.	6008.	92.	* 106.	169.	.76	61.	25.1	F	13.8	3.9
14	3	2600.	0.	716.	5032.	0.	675.	4575.	6008.	92.	** 2600.	169.	.76	20.	76.7	F	17.8	4.6
15	2	2010.	0.	0.	4316.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	732.	736.	5048.	732.	675.	4632.	6100.	0.	0.	0.	.76	62.	25.1	C	18.3	4.1
17	2	1240.	0.	0.	4312.	0.	0.	3957.	4300.	0.	0.	0.	.92	57.	34.8	D	19.9	2.4
18	3	930.	520.	0.	4832.	520.	0.	4477.	6095.	5.	0.	0.	.73	62.	24.1	C	20.6	4.4
19	3	5330.	152.	664.	4984.	152.	617.	4417.	6051.	49.	* 1834.	212.	.73	38.	38.9	F	19.7	4.3
20	2	2830.	0.	0.	4320.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	532.	728.	4852.	532.	650.	4332.	5761.	339.	0.	0.	.75	61.	23.7	C	21.1	3.8
22	2	2270.	0.	0.	4124.	0.	0.	3682.	4400.	0.	0.	0.	.84	60.	30.6	D	21.5	3.3
23	2	3040.	416.	436.	4540.	416.	394.	4098.	4100.	0.	0.	0.	.99	52.	39.7	E	23.9	2.0
24	2	2190.	0.	0.	4104.	0.	0.	3705.	4200.	0.	0.	0.	.88	60.	30.8	D	21.6	3.2
25	3	2400.	132.	4236.	4236.	132.	3837.	3837.	6150.	0.	0.	0.	.62	65.	19.7	C	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 42. 39.0 18.9 3.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	291. VEH-HRS	343. PASS-HRS	970. VEH-HRS	1144. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	291. VEH-HRS	343. PASS-HRS	970. VEH-HRS	1144. PASS-HRS
TOTAL TRAV DISTANCE =	12229. VEH-MI.	14430. PASS-MI.	47407. VEH-MI.	55940. PASS-MI.
AVERAGE SYSTEM SPEED =	42. MPH.		49. MPH.	
AVERAGE DENSITY =	39. VPMPL		33. VPMPL	
TOTAL FUEL =	646. GALLONS		2484. GALLONS	
TOTAL EMISSIONS =	42. KILOGRAMS		167. KILOGRAMS	

QUEUE COLLISION IN SECTION 12 T2 =0.205

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2548.	0.	2548.	2548.	0.	2548.	3850.	0.	0.	0.	.66	50.	25.5	C	17.4	2.3
2	2	2070.	448.	0.	2996.	448.	0.	2996.	3830.	20.	0.	0.	.78	50.	30.0	D	15.9	2.3
3	3	2300.	1468.	500.	4464.	1468.	500.	4464.	5742.	358.	0.	0.	.78	55.	27.1	D	14.0	2.4
4	3	1020.	0.	0.	3964.	0.	0.	3964.	6100.	0.	0.	0.	.65	62.	21.3	C	19.9	4.8
5	3	710.	100.	0.	4064.	100.	0.	4064.	6100.	0.	0.	0.	.67	62.	21.8	C	16.1	4.4
6	3	3820.	304.	1112.	4368.	304.	1112.	4368.	6116.	34.	0.	0.	.71	62.	23.5	C	17.1	4.8
7	2	1220.	0.	0.	3256.	0.	0.	3256.	4400.	0.	0.	0.	.74	60.	27.2	D	18.2	4.2
8	3	4810.	524.	828.	3780.	524.	828.	3826.	6100.	0.	* 3400.	-46.	.63	15.	87.3	F	15.5	5.5
9	2	1370.	0.	0.	2952.	0.	0.	2998.	4000.	0.	** 1370.	-46.	.75	20.	74.0	F	23.9	4.2
10	2	660.	444.	0.	3396.	444.	0.	3442.	4364.	36.	** 660.	-46.	.79	23.	76.0	F	25.2	3.8
11	3	790.	1160.	816.	4556.	1160.	816.	4602.	5448.	652.	** 790.	-46.	.84	26.	58.2	F	34.1	3.3
12	2	1460.	0.	0.	3740.	0.	0.	3786.	4100.	0.	** 1460.	314.	.92	43.	43.5	F	23.3	2.2
13	3	1400.	608.	0.	4348.	608.	0.	4394.	6036.	64.	** 1400.	314.	.73	20.	72.6	F	12.2	4.8
14	3	2600.	0.	456.	4348.	0.	494.	4394.	6036.	64.	** 2600.	314.	.73	15.	95.0	F	16.5	5.2
15	2	2010.	0.	0.	3892.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	684.	580.	4576.	684.	581.	4584.	6100.	0.	0.	0.	.75	62.	24.6	C	18.2	4.4
17	2	1240.	0.	0.	3996.	0.	0.	4003.	4300.	0.	0.	0.	.93	56.	35.6	E	20.1	2.3
18	3	930.	416.	0.	4412.	416.	0.	4419.	6097.	3.	0.	0.	.72	62.	23.8	C	20.6	4.4
19	3	5330.	120.	580.	4532.	120.	581.	4381.	6065.	35.	* 2799.	158.	.72	27.	54.6	F	18.5	4.7
20	2	2830.	0.	0.	3952.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	516.	688.	4468.	516.	665.	4316.	5795.	305.	0.	0.	.74	61.	23.6	C	21.1	3.8
22	2	2270.	0.	0.	3780.	0.	0.	3651.	4400.	0.	0.	0.	.83	60.	30.3	D	21.4	3.4
23	2	3040.	340.	420.	4120.	340.	407.	3991.	4100.	0.	0.	0.	.97	54.	37.3	E	23.5	2.0
24	2	2190.	0.	0.	3700.	0.	0.	3584.	4200.	0.	0.	0.	.85	61.	29.2	D	20.9	4.0
25	3	2400.	160.	3860.	3860.	160.	3744.	3744.	6150.	0.	0.	0.	.61	65.	19.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 36.	41.2		18.3	3.9

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	316. VEH-HRS	373. PASS-HRS	1286. VEH-HRS	1517. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	316. VEH-HRS	373. PASS-HRS	1286. VEH-HRS	1517. PASS-HRS
TOTAL TRAV DISTANCE =	11262. VEH-MI.	13289. PASS-MI.	58669. VEH-MI.	69229. PASS-MI.
AVERAGE SYSTEM SPEED =	36. MPH.		46. MPH.	
AVERAGE DENSITY =	41. VPMPL		35. VPMPL	
TOTAL FUEL =	617. GALLONS		3101. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		211. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2656.	0.	2656.	2656.	0.	2656.	3850.	0.	0.	0.	.69	50.	26.6	D	17.4	2.3
2	2	2070.	404.	0.	3060.	404.	0.	3060.	3834.	16.	0.	0.	.80	50.	30.6	D	15.9	2.3
3	3	2300.	1424.	432.	4484.	1424.	432.	4484.	5786.	314.	0.	0.	.77	55.	27.2	D	14.0	2.4
4	3	1020.	0.	0.	4052.	0.	0.	4052.	6100.	0.	0.	0.	.66	62.	21.8	C	19.9	4.8
5	3	710.	96.	0.	4148.	96.	0.	4148.	6100.	0.	0.	0.	.68	62.	22.3	C	16.1	4.4
6	3	3820.	240.	1116.	4388.	240.	1116.	4388.	6132.	18.	0.	0.	.72	62.	23.6	C	17.1	4.8
7	2	1220.	0.	0.	3272.	0.	0.	3272.	4400.	0.	0.	0.	.74	62.	26.5	D	18.3	4.2
8	3	4810.	540.	784.	3812.	540.	784.	3708.	6100.	0.	* 3879.	104.	.61	13.	92.1	F	14.8	5.7
9	2	1370.	0.	0.	3028.	0.	0.	2924.	4000.	0.	** 1370.	104.	.73	16.	94.0	F	20.0	5.1
10	2	660.	420.	0.	3448.	420.	0.	3344.	4367.	33.	** 660.	104.	.77	17.	96.4	F	21.5	4.8
11	3	790.	1100.	768.	4548.	1100.	768.	4444.	5481.	619.	** 790.	104.	.81	20.	73.9	F	29.0	4.2
12	2	1460.	0.	0.	3780.	0.	0.	3676.	4100.	0.	** 1460.	104.	.90	27.	68.6	F	20.6	3.2
13	3	1400.	624.	0.	4404.	624.	0.	4300.	6044.	56.	** 1400.	104.	.71	15.	97.9	F	11.4	5.3
14	3	2600.	0.	400.	4404.	0.	400.	4300.	6044.	56.	** 2600.	104.	.71	15.	97.9	F	16.0	5.3
15	2	2010.	0.	0.	4004.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	600.	540.	4604.	600.	528.	4500.	6100.	0.	0.	0.	.74	62.	24.2	C	18.2	4.4
17	2	1240.	0.	0.	4064.	0.	0.	3972.	4300.	0.	0.	0.	.92	57.	35.1	E	20.0	2.4
18	3	930.	420.	0.	4484.	420.	0.	4392.	6097.	3.	0.	0.	.72	62.	23.6	C	20.6	4.4
19	3	5330.	128.	528.	4612.	128.	518.	4318.	6067.	33.	* 4006.	203.	.71	20.	70.3	F	17.5	5.0
20	2	2830.	0.	0.	4084.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	528.	604.	4612.	528.	567.	4328.	5824.	276.	0.	0.	.74	61.	23.7	C	21.1	3.8
22	2	2270.	0.	0.	4008.	0.	0.	3761.	4400.	0.	0.	0.	.85	60.	31.6	D	21.7	3.1
23	2	3040.	180.	408.	4188.	180.	384.	3941.	4100.	0.	0.	0.	.96	54.	36.2	E	23.3	2.0
24	2	2190.	0.	0.	3780.	0.	0.	3558.	4200.	0.	0.	0.	.85	62.	28.9	D	20.8	4.1
25	3	2400.	148.	3928.	3928.	148.	3706.	3706.	6150.	0.	0.	0.	.60	65.	19.0	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 32.	45.2		17.9	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	342. VEH-HRS	403. PASS-HRS	1628. VEH-HRS	1921. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	342. VEH-HRS	403. PASS-HRS	1628. VEH-HRS	1921. PASS-HRS
TOTAL TRAV DISTANCE =	11098. VEH-MI.	13096. PASS-MI.	69767. VEH-MI.	82325. PASS-MI.
AVERAGE SYSTEM SPEED =	32. MPH.		43. MPH.	
AVERAGE DENSITY =	45. VPMPL		36. VPMPL	
TOTAL FUEL =	622. GALLONS		3722. GALLONS	
TOTAL EMISSIONS =	44. KILOGRAMS		256. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2436.	0.	2436.	2436.	0.	2436.	3850.	0.	0.	0.	.63	50.	24.4	C	17.4	2.3
2	2	2070.	444.	0.	2880.	444.	0.	2880.	3833.	17.	0.	0.	.75	50.	28.8	D	15.9	2.3
3	3	2300.	1656.	496.	4536.	1656.	496.	4536.	5765.	335.	0.	0.	.79	55.	27.5	D	14.0	2.4
4	3	1020.	0.	0.	4040.	0.	0.	4040.	6100.	0.	0.	0.	.66	62.	21.7	C	19.9	4.8
5	3	710.	80.	0.	4120.	80.	0.	4120.	6100.	0.	0.	0.	.68	62.	22.2	C	16.1	4.4
6	3	3820.	244.	1168.	4364.	244.	1168.	4364.	6123.	27.	0.	0.	.71	62.	23.5	C	17.1	4.8
7	2	1220.	0.	0.	3196.	0.	0.	3196.	4400.	0.	0.	0.	.73	62.	25.8	C	18.2	4.3
8	3	4810.	564.	832.	3760.	564.	832.	3716.	6100.	0.	* 4081.	44.	.61	13.	99.1	F	14.4	5.8
9	2	1370.	0.	0.	2928.	0.	0.	2884.	4000.	0.	** 1370.	44.	.72	15.	95.6	F	19.6	5.2
10	2	660.	424.	0.	3352.	424.	0.	3308.	4365.	35.	** 660.	44.	.76	17.	97.8	F	21.2	4.8
11	3	790.	1140.	804.	4492.	1140.	804.	4448.	5459.	641.	** 790.	44.	.81	20.	73.0	F	29.2	4.1
12	2	1460.	0.	0.	3688.	0.	0.	3644.	4100.	0.	** 1460.	44.	.89	26.	69.9	F	20.4	3.3
13	3	1400.	652.	0.	4340.	652.	0.	4296.	6040.	60.	** 1400.	44.	.71	15.	97.8	F	11.4	5.3
14	3	2600.	0.	396.	4340.	0.	396.	4296.	6040.	60.	** 2600.	44.	.71	15.	97.8	F	16.0	5.3
15	2	2010.	0.	0.	3944.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	576.	544.	4520.	576.	539.	4476.	6100.	0.	0.	0.	.73	62.	24.1	C	18.2	4.4
17	2	1240.	0.	0.	3976.	0.	0.	3937.	4300.	0.	0.	0.	.92	57.	34.5	D	19.8	2.5
18	3	930.	476.	0.	4452.	476.	0.	4413.	6097.	3.	0.	0.	.72	62.	23.7	C	20.6	4.4
19	3	5330.	152.	576.	4604.	152.	571.	4371.	6059.	41.	* 5193.	194.	.72	17.	86.1	F	16.8	5.1
20	2	2830.	0.	0.	4028.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	508.	648.	4536.	508.	615.	4308.	5817.	283.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3888.	0.	0.	3693.	4400.	0.	0.	0.	.84	60.	30.7	D	21.6	3.2
23	2	3040.	152.	404.	4040.	152.	385.	3845.	4100.	0.	0.	0.	.94	56.	34.4	D	22.9	2.2
24	2	2190.	0.	0.	3636.	0.	0.	3460.	4200.	0.	0.	0.	.82	62.	27.7	D	20.4	4.6
25	3	2400.	124.	3760.	3760.	124.	3584.	3584.	6150.	0.	0.	0.	.58	65.	18.4	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 31.	46.7		17.7	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	355. VEH-HRS	419. PASS-HRS	1983. VEH-HRS	2339. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	355. VEH-HRS	419. PASS-HRS	1983. VEH-HRS	2339. PASS-HRS
TOTAL TRAV DISTANCE =	10949. VEH-MI.	12919. PASS-MI.	80715. VEH-MI.	95244. PASS-MI.
AVERAGE SYSTEM SPEED =	31. MPH.		41. MPH.	
AVERAGE DENSITY =	47. VPMPL		38. VPMPL	
TOTAL FUEL =	619. GALLONS		4341. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		300. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3480.	0.	3480.	3480.	0.	3459.	3850.	0.	* 472.	21.	.90	48.	35.7	F	17.2	2.4
2	2	2070.	372.	0.	3852.	372.	0.	3831.	3831.	19.	0.	0.	1.00	49.	39.2	E	15.7	2.3
3	3	2300.	1264.	564.	5116.	1264.	562.	5095.	5655.	445.	0.	0.	.90	55.	30.9	D	14.0	2.4
4	3	1020.	0.	0.	4552.	0.	0.	4533.	6100.	0.	0.	0.	.74	62.	24.4	C	19.9	4.8
5	3	710.	56.	0.	4608.	56.	0.	4589.	6100.	0.	0.	0.	.75	62.	24.7	C	16.1	4.4
6	3	3820.	192.	1268.	4800.	192.	1263.	4781.	6115.	35.	0.	0.	.78	61.	26.0	C	17.4	4.4
7	2	1220.	0.	0.	3532.	0.	0.	3326.	4400.	0.	* 381.	192.	.76	56.	29.5	F	18.4	3.8
8	3	4810.	484.	904.	4016.	484.	901.	3810.	6100.	0.	** 4810.	192.	.62	12.	107.4	F	14.1	5.9
9	2	1370.	0.	0.	3112.	0.	0.	2909.	4000.	0.	** 1370.	192.	.73	15.	94.6	F	19.9	5.2
10	2	660.	416.	0.	3528.	416.	0.	3325.	4365.	35.	** 660.	192.	.76	17.	97.1	F	21.3	4.8
11	3	790.	1212.	860.	4740.	1212.	858.	4537.	5419.	681.	** 790.	192.	.84	22.	69.2	F	30.3	3.9
12	2	1460.	0.	0.	3880.	0.	0.	3679.	4100.	0.	** 1460.	192.	.90	27.	68.4	F	20.6	3.2
13	3	1400.	708.	0.	4588.	708.	0.	4387.	6024.	76.	** 1400.	192.	.73	15.	94.8	F	11.6	5.2
14	3	2600.	0.	488.	4588.	0.	487.	4387.	6024.	76.	** 2600.	192.	.73	15.	94.8	F	16.5	5.2
15	2	2010.	0.	0.	4100.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	656.	652.	4756.	656.	625.	4556.	6100.	0.	0.	0.	.75	62.	24.5	C	18.2	4.4
17	2	1240.	0.	0.	4104.	0.	0.	3931.	4300.	0.	0.	0.	.91	57.	34.4	D	19.8	2.5
18	3	930.	516.	0.	4620.	516.	0.	4302.	6096.	4.	* 722.	145.	.71	30.	48.0	F	18.7	4.7
19	3	5330.	192.	720.	4812.	192.	694.	4494.	6048.	52.	** 5330.	145.	.74	16.	92.6	F	16.8	5.0
20	2	2830.	0.	0.	4092.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	496.	704.	4588.	496.	659.	4296.	5806.	294.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3884.	0.	0.	3637.	4400.	0.	0.	0.	.83	60.	30.1	D	21.4	3.4
23	2	3040.	144.	436.	4028.	144.	409.	3781.	4100.	0.	0.	0.	.92	57.	33.3	D	22.6	2.4
24	2	2190.	0.	0.	3592.	0.	0.	3372.	4200.	0.	0.	0.	.80	63.	26.7	D	20.1	5.0
25	3	2400.	144.	3736.	3736.	144.	3516.	3516.	6150.	0.	0.	0.	.57	65.	18.0	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 31.	49.9	17.6	4.0

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	378. VEH-HRS	446. PASS-HRS	2361. VEH-HRS	2786. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	378. VEH-HRS	446. PASS-HRS	2361. VEH-HRS	2786. PASS-HRS
TOTAL TRAV DISTANCE =	11608. VEH-MI.	13698. PASS-MI.	92324. VEH-MI.	108942. PASS-MI.
AVERAGE SYSTEM SPEED =	31. MPH.		39. MPH.	
AVERAGE DENSITY =	50. VPMPL		39. VPMPL	
TOTAL FUEL =	660. GALLONS		5001. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		346. KILOGRAMS	

QUEUE CLEAR SECTION 1 FT= 125

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2944.	0.	2944.	2944.	0.	2973.	3850.	0.	0.	-29.	.77	46.	32.3	D	17.0	2.5
2	2	2070.	376.	0.	3320.	376.	0.	3349.	3831.	19.	0.	0.	.87	50.	33.5	D	15.9	2.3
3	3	2300.	1240.	540.	4560.	1240.	543.	4589.	5686.	414.	0.	0.	.81	55.	27.8	D	14.0	2.4
4	3	1020.	0.	0.	4020.	0.	0.	4045.	6100.	0.	0.	0.	.66	62.	21.7	C	19.9	4.8
5	3	710.	100.	0.	4120.	100.	0.	4145.	6100.	0.	0.	0.	.68	62.	22.3	C	16.1	4.4
6	3	3820.	184.	1192.	4304.	184.	1199.	4329.	6130.	20.	0.	0.	.71	62.	23.3	C	17.1	4.8
7	2	1220.	0.	0.	3112.	0.	0.	3130.	4400.	0.	0.	0.	.71	56.	27.9	D	18.0	4.3
8	3	4810.	452.	888.	3564.	452.	893.	3764.	6100.	0.	* 4167.	-182.	.62	11.	109.8	F	13.9	6.0
9	2	1370.	0.	0.	2676.	0.	0.	2872.	4000.	0.	** 1370.	-182.	.72	15.	96.1	F	19.5	5.3
10	2	660.	356.	0.	3032.	356.	0.	3228.	4371.	29.	** 660.	-182.	.74	16.	101.3	F	20.3	5.1
11	3	790.	1144.	732.	4176.	1144.	734.	4372.	5533.	567.	** 790.	-182.	.79	19.	77.7	F	27.2	4.5
12	2	1460.	0.	0.	3444.	0.	0.	3637.	4100.	0.	** 1460.	-182.	.89	26.	70.2	F	20.4	3.3
13	3	1400.	736.	0.	4180.	736.	0.	4373.	6016.	84.	** 1400.	-182.	.73	15.	94.9	F	11.6	5.2
14	3	2600.	0.	472.	4180.	0.	473.	4373.	6016.	84.	** 2600.	-182.	.73	15.	94.9	F	16.4	5.2
15	2	2010.	0.	0.	3708.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	820.	644.	4528.	820.	671.	4441.	6100.	0.	* 1064.	279.	.73	53.	27.7	F	18.1	4.1
17	2	1240.	0.	0.	3884.	0.	0.	3770.	4300.	0.	** 1240.	279.	.88	29.	64.1	F	17.6	3.1
18	3	930.	556.	0.	4440.	556.	0.	4326.	6097.	3.	** 930.	279.	.71	15.	97.9	F	16.0	5.3
19	3	5330.	236.	736.	4676.	236.	762.	4562.	6044.	56.	** 5330.	279.	.75	17.	90.7	F	17.0	4.9
20	2	2830.	0.	0.	3940.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	468.	680.	4408.	468.	658.	4268.	5862.	238.	0.	0.	.73	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	3728.	0.	0.	3610.	4400.	0.	0.	0.	.82	61.	29.8	D	21.3	3.5
23	2	3040.	168.	396.	3896.	168.	384.	3778.	4100.	0.	0.	0.	.92	57.	33.3	D	22.6	2.4
24	2	2190.	0.	0.	3500.	0.	0.	3394.	4200.	0.	0.	0.	.81	63.	27.0	D	20.1	4.9
25	3	2400.	148.	3648.	3648.	148.	3542.	3542.	6150.	0.	0.	0.	.58	65.	18.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 29.	50.9	17.5	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	387. VEH-HRS	457. PASS-HRS	2748. VEH-HRS	3243. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	387. VEH-HRS	457. PASS-HRS	2748. VEH-HRS	3243. PASS-HRS
TOTAL TRAV DISTANCE =	11224. VEH-MI.	13244. PASS-MI.	103548. VEH-MI.	122186. PASS-MI.
AVERAGE SYSTEM SPEED =	29. MPH.		38. MPH.	
AVERAGE DENSITY =	51. VPMPL		41. VPMPL	
TOTAL FUEL =	642. GALLONS		5643. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		392. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3196.	0.	3196.	3196.	0.	3196.	3850.	0.	0.	0.	.83	50.	32.0	D	17.4	2.3
2	2	2070.	324.	0.	3520.	324.	0.	3520.	3834.	16.	0.	0.	.92	50.	35.2	E	15.9	2.3
3	3	2300.	1236.	556.	4756.	1236.	556.	4756.	5669.	431.	0.	0.	.84	55.	28.8	D	14.0	2.4
4	3	1020.	0.	0.	4200.	0.	0.	4200.	6100.	0.	0.	0.	.69	62.	22.6	C	19.9	4.8
5	3	710.	88.	0.	4288.	88.	0.	4288.	6100.	0.	0.	0.	.70	62.	23.1	C	16.1	4.4
6	3	3820.	172.	1200.	4460.	172.	1200.	4460.	6131.	19.	0.	0.	.73	62.	24.0	C	17.1	4.8
7	2	1220.	0.	0.	3260.	0.	0.	3260.	4400.	0.	0.	0.	.74	62.	26.4	D	18.3	4.2
8	3	4810.	364.	880.	3624.	364.	880.	3796.	6100.	0.	* 3362.	-172.	.62	13.	94.1	F	14.8	5.7
9	2	1370.	0.	0.	2744.	0.	0.	2916.	4000.	0.	** 1370.	-172.	.73	15.	94.3	F	19.9	5.2
10	2	660.	356.	0.	3100.	356.	0.	3272.	4371.	29.	** 660.	-172.	.75	16.	99.5	F	20.7	5.0
11	3	790.	1124.	736.	4224.	1124.	736.	4396.	5525.	575.	** 790.	-172.	.80	19.	76.8	F	27.7	4.4
12	2	1460.	0.	0.	3488.	0.	0.	3660.	4100.	0.	** 1460.	-172.	.89	26.	69.2	F	20.5	3.3
13	3	1400.	708.	0.	4196.	708.	0.	4368.	6020.	80.	** 1400.	-172.	.73	15.	95.2	F	11.6	5.2
14	3	2600.	0.	468.	4196.	0.	468.	4368.	6020.	80.	** 2600.	-172.	.73	15.	95.2	F	16.4	5.2
15	2	2010.	0.	0.	3728.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	904.	616.	4632.	904.	639.	4390.	6100.	0.	* 3622.	414.	.72	29.	50.5	F	16.6	4.4
17	2	1240.	0.	0.	4016.	0.	0.	3751.	4300.	0.	** 1240.	414.	.87	25.	76.2	F	16.7	3.5
18	3	930.	572.	0.	4588.	572.	0.	4323.	6096.	4.	** 930.	414.	.71	15.	99.1	F	15.9	5.4
19	3	5330.	240.	740.	4828.	240.	763.	4563.	6044.	56.	** 5330.	414.	.75	17.	90.7	F	17.0	4.9
20	2	2830.	0.	0.	4088.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	444.	708.	4532.	444.	663.	4244.	5856.	244.	0.	0.	.72	61.	23.2	C	21.1	3.8
22	2	2270.	0.	0.	3824.	0.	0.	3581.	4400.	0.	0.	0.	.81	61.	29.5	D	21.2	3.6
23	2	3040.	196.	404.	4020.	196.	380.	3777.	4100.	0.	0.	0.	.92	57.	33.3	D	22.6	2.4
24	2	2190.	0.	0.	3616.	0.	0.	3397.	4200.	0.	0.	0.	.81	63.	27.0	D	20.1	4.9
25	3	2400.	132.	3748.	3748.	132.	3529.	3529.	6150.	0.	0.	0.	.57	65.	18.1	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 28.		52.2	17.4	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	399. VEH-HRS	471. PASS-HRS	3147. VEH-HRS	3713. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	399. VEH-HRS	471. PASS-HRS	3147. VEH-HRS	3713. PASS-HRS
TOTAL TRAV DISTANCE =	11354. VEH-MI.	13398. PASS-MI.	114902. VEH-MI.	135584. PASS-MI.
AVERAGE SYSTEM SPEED =	28. MPH.		37. MPH.	
AVERAGE DENSITY =	52. VPMPL		42. VPMPL	
TOTAL FUEL =	653. GALLONS		6296. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		438. KILOGRAMS	

QUEUE COLLISION IN SECTION 15 T2 =0.244

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2760.	0.	2760.	2760.	0.	2760.	3850.	0.	0.	0.	.72	50.	27.6	D	17.4	2.3
2	2	2070.	396.	0.	3156.	396.	0.	3156.	3831.	19.	0.	0.	.82	50.	31.6	D	15.9	2.3
3	3	2300.	1232.	536.	4388.	1232.	536.	4388.	5712.	388.	0.	0.	.77	55.	26.6	D	14.0	2.4
4	3	1020.	0.	0.	3852.	0.	0.	3852.	6100.	0.	0.	0.	.63	62.	20.7	C	19.9	4.8
5	3	710.	104.	0.	3956.	104.	0.	3956.	6100.	0.	0.	0.	.65	62.	21.3	C	16.1	4.4
6	3	3820.	180.	1148.	4136.	180.	1148.	4136.	6137.	13.	0.	0.	.67	62.	22.2	C	17.1	4.8
7	2	1220.	0.	0.	2988.	0.	0.	2988.	4400.	0.	0.	0.	.68	62.	24.1	C	18.2	4.4
8	3	4810.	396.	832.	3384.	396.	832.	3173.	6100.	0.	* 1898.	211.	.52	17.	63.3	F	15.9	5.4
9	2	1370.	0.	0.	2552.	0.	0.	2341.	4000.	0.	** 1370.	211.	.59	15.	78.1	F	19.5	5.3
10	2	660.	332.	0.	2884.	332.	0.	2673.	4373.	27.	** 660.	211.	.61	16.	85.2	F	20.1	5.1
11	3	790.	1128.	716.	4012.	1128.	716.	3801.	5551.	549.	** 790.	211.	.68	18.	69.6	F	26.6	4.6
12	2	1460.	0.	0.	3296.	0.	0.	3085.	4100.	0.	** 1460.	211.	.75	26.	60.4	F	20.3	3.4
13	3	1400.	712.	0.	4008.	712.	0.	3797.	6020.	80.	** 1400.	211.	.63	15.	84.3	F	11.6	5.3
14	3	2600.	0.	444.	4008.	0.	444.	3797.	6020.	80.	** 2600.	211.	.63	15.	84.3	F	16.3	5.3
15	2	2010.	0.	0.	3564.	0.	0.	3353.	3900.	0.	** 2010.	547.	.86	46.	36.4	F	16.6	2.1
16	3	6120.	860.	536.	4424.	860.	577.	4213.	6100.	0.	** 6120.	547.	.69	16.	88.0	F	14.0	5.2
17	2	1240.	0.	0.	3888.	0.	0.	3636.	4300.	0.	** 1240.	547.	.85	22.	80.9	F	16.0	3.8
18	3	930.	632.	0.	4520.	632.	0.	4268.	6096.	4.	** 930.	547.	.70	14.	100.6	F	15.7	5.4
19	3	5330.	224.	652.	4744.	224.	692.	4492.	6044.	56.	** 5330.	547.	.74	16.	92.6	F	16.8	5.0
20	2	2830.	0.	0.	4092.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	492.	676.	4584.	492.	633.	4292.	5827.	273.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3908.	0.	0.	3659.	4400.	0.	0.	0.	.83	60.	30.3	D	21.5	3.4
23	2	3040.	164.	396.	4072.	164.	372.	3823.	4100.	0.	0.	0.	.93	56.	34.0	D	22.8	2.3
24	2	2190.	0.	0.	3676.	0.	0.	3451.	4200.	0.	0.	0.	.82	62.	27.6	D	20.3	4.6
25	3	2400.	88.	3764.	3764.	88.	3539.	3539.	6150.	0.	0.	0.	.58	65.	18.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 26.	51.5		17.1	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	415. VEH-HRS	489. PASS-HRS	3562. VEH-HRS	4203. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	415. VEH-HRS	489. PASS-HRS	3562. VEH-HRS	4203. PASS-HRS
TOTAL TRAV DISTANCE =	10878. VEH-MI.	12836. PASS-MI.	125780. VEH-MI.	148420. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		35. MPH.	
AVERAGE DENSITY =	52. VPMPL		43. VPMPL	
TOTAL FUEL =	636. GALLONS		6933. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		484. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3052.	0.	3052.	3052.	0.	3052.	3850.	0.	0.	0.	.79	50.	30.5	D	17.4	2.3
2	2	2070.	324.	0.	3376.	324.	0.	3376.	3832.	18.	0.	0.	.88	50.	33.8	D	15.9	2.3
3	3	2300.	1080.	532.	4456.	1080.	532.	4456.	5716.	384.	0.	0.	.78	55.	27.0	D	14.0	2.4
4	3	1020.	0.	0.	3924.	0.	0.	3924.	6100.	0.	0.	0.	.64	62.	21.1	C	19.9	4.8
5	3	710.	104.	0.	4028.	104.	0.	4028.	6100.	0.	0.	0.	.66	62.	21.7	C	16.1	4.4
6	3	3820.	188.	1148.	4216.	188.	1148.	4216.	6136.	14.	0.	0.	.69	62.	22.7	C	17.1	4.8
7	2	1220.	0.	0.	3068.	0.	0.	3068.	4400.	0.	0.	0.	.70	62.	24.7	C	18.2	4.4
8	3	4810.	476.	820.	3544.	476.	820.	3260.	6100.	0.	* 3043.	284.	.53	15.	72.0	F	14.6	5.7
9	2	1370.	0.	0.	2724.	0.	0.	2440.	4000.	0.	** 1370.	284.	.61	11.	113.7	F	15.2	6.1
10	2	660.	284.	0.	3008.	284.	0.	2724.	4376.	24.	** 660.	284.	.62	11.	122.2	F	15.5	6.1
11	3	790.	1144.	744.	4152.	1144.	744.	3868.	5532.	568.	** 790.	284.	.70	14.	91.4	F	21.6	5.4
12	2	1460.	0.	0.	3408.	0.	0.	3124.	4100.	0.	** 1460.	284.	.76	17.	91.1	F	17.2	4.8
13	3	1400.	712.	0.	4120.	712.	0.	3836.	6016.	84.	** 1400.	284.	.64	12.	109.5	F	10.5	5.9
14	3	2600.	0.	492.	4120.	0.	492.	3836.	6016.	84.	** 2600.	284.	.64	12.	109.5	F	14.1	5.9
15	2	2010.	0.	0.	3628.	0.	0.	3344.	3900.	0.	** 2010.	284.	.86	23.	71.5	F	13.7	3.7
16	3	6120.	836.	588.	4464.	836.	588.	4180.	6100.	0.	** 6120.	284.	.69	14.	103.1	F	13.2	5.6
17	2	1240.	0.	0.	3876.	0.	0.	3592.	4300.	0.	** 1240.	284.	.84	22.	82.7	F	15.8	3.9
18	3	930.	652.	0.	4528.	652.	0.	4244.	6096.	4.	** 930.	284.	.70	14.	101.2	F	15.5	5.5
19	3	5330.	228.	672.	4756.	228.	672.	4472.	6041.	59.	** 5330.	284.	.74	16.	93.1	F	16.7	5.0
20	2	2830.	0.	0.	4084.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	528.	732.	4612.	528.	687.	4328.	5767.	333.	0.	0.	.75	61.	23.7	C	21.1	3.8
22	2	2270.	0.	0.	3880.	0.	0.	3641.	4400.	0.	0.	0.	.83	60.	30.1	D	21.4	3.4
23	2	3040.	208.	376.	4088.	208.	354.	3849.	4100.	0.	0.	0.	.94	56.	34.5	D	22.9	2.2
24	2	2190.	0.	0.	3712.	0.	0.	3495.	4200.	0.	0.	0.	.83	62.	28.1	D	20.5	4.4
25	3	2400.	132.	3844.	3844.	132.	3627.	3627.	6150.	0.	0.	0.	.59	65.	18.6	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 24.	59.4		16.4	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	454. VEH-HRS	535. PASS-HRS	4015. VEH-HRS	4738. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	454. VEH-HRS	535. PASS-HRS	4015. VEH-HRS	4738. PASS-HRS
TOTAL TRAV DISTANCE =	10721. VEH-MI.	12651. PASS-MI.	136501. VEH-MI.	161071. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		34. MPH.	
AVERAGE DENSITY =	59. VPMPL		44. VPMPL	
TOTAL FUEL =	654. GALLONS		7586. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		530. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2640.	0.	2640.	2640.	0.	2640.	3850.	0.	0.	0.	.69	50.	26.4	D	17.4	2.3
2	2	2070.	476.	0.	3116.	476.	0.	3116.	3829.	21.	0.	0.	.81	50.	31.2	D	15.9	2.3
3	3	2300.	1256.	472.	4372.	1256.	472.	4372.	5758.	342.	0.	0.	.76	55.	26.5	D	14.0	2.4
4	3	1020.	0.	0.	3900.	0.	0.	3900.	6100.	0.	0.	0.	.64	62.	21.0	C	19.9	4.8
5	3	710.	120.	0.	4020.	120.	0.	4020.	6100.	0.	0.	0.	.66	62.	21.6	C	16.1	4.4
6	3	3820.	196.	1204.	4216.	196.	1204.	4216.	6122.	28.	0.	0.	.69	62.	22.7	C	17.1	4.8
7	2	1220.	0.	0.	3012.	0.	0.	3012.	4400.	0.	0.	0.	.68	62.	24.3	C	18.2	4.4
8	3	4810.	404.	836.	3416.	404.	836.	3288.	6100.	0.	* 3559.	128.	.54	12.	92.1	F	13.3	6.2
9	2	1370.	0.	0.	2580.	0.	0.	2452.	4000.	0.	** 1370.	128.	.61	11.	113.2	F	15.3	6.1
10	2	660.	380.	0.	2960.	380.	0.	2832.	4367.	33.	** 660.	128.	.65	12.	117.3	F	16.4	5.9
11	3	790.	1156.	768.	4116.	1156.	768.	3988.	5509.	591.	** 790.	128.	.72	15.	87.3	F	23.2	5.2
12	2	1460.	0.	0.	3348.	0.	0.	3220.	4100.	0.	** 1460.	128.	.79	18.	87.2	F	17.8	4.5
13	3	1400.	752.	0.	4100.	752.	0.	3972.	5992.	108.	** 1400.	128.	.66	13.	104.9	F	10.7	5.8
14	3	2600.	0.	596.	4100.	0.	596.	3972.	5992.	108.	** 2600.	128.	.66	13.	104.9	F	14.6	5.8
15	2	2010.	0.	0.	3504.	0.	0.	3376.	3900.	0.	** 2010.	128.	.87	24.	70.2	F	13.8	3.6
16	3	6120.	840.	616.	4344.	840.	616.	4216.	6100.	0.	** 6120.	128.	.69	14.	102.1	F	13.3	5.5
17	2	1240.	0.	0.	3728.	0.	0.	3600.	4300.	0.	** 1240.	128.	.84	22.	82.3	F	15.8	3.9
18	3	930.	644.	0.	4372.	644.	0.	4244.	6097.	3.	** 930.	128.	.70	14.	101.3	F	15.5	5.5
19	3	5330.	256.	700.	4628.	256.	700.	4500.	6043.	57.	** 5330.	128.	.74	16.	92.4	F	16.8	5.0
20	2	2830.	0.	0.	3928.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	552.	756.	4480.	552.	734.	4352.	5755.	345.	0.	0.	.76	61.	23.8	C	21.1	3.8
22	2	2270.	0.	0.	3724.	0.	0.	3618.	4400.	0.	0.	0.	.82	61.	29.9	D	21.3	3.5
23	2	3040.	208.	400.	3932.	208.	389.	3826.	4100.	0.	0.	0.	.93	56.	34.1	D	22.8	2.3
24	2	2190.	0.	0.	3532.	0.	0.	3436.	4200.	0.	0.	0.	.82	63.	27.4	D	20.3	4.7
25	3	2400.	112.	3644.	3644.	112.	3548.	3548.	6150.	0.	0.	0.	.58	65.	18.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F		AVG = 23.		59.6	16.4	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	457. VEH-HRS	539. PASS-HRS	4472. VEH-HRS	5277. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	457. VEH-HRS	539. PASS-HRS	4472. VEH-HRS	5277. PASS-HRS
TOTAL TRAV DISTANCE =	10586. VEH-MI.	12491. PASS-MI.	147087. VEH-MI.	173562. PASS-MI.
AVERAGE SYSTEM SPEED =	23. MPH.		33. MPH.	
AVERAGE DENSITY =	60. VPMPL		45. VPMPL	
TOTAL FUEL =	647. GALLONS		8234. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		577. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3120.	0.	3120.	3120.	0.	3120.	3850.	0.	0.	0.	.81	50.	31.2	D	17.4	2.3
2	2	2070.	324.	0.	3444.	324.	0.	3444.	3837.	13.	0.	0.	.90	50.	34.4	D	15.9	2.3
3	3	2300.	1176.	396.	4620.	1176.	396.	4620.	5819.	281.	0.	0.	.79	55.	28.0	D	14.0	2.4
4	3	1020.	0.	0.	4224.	0.	0.	4224.	6100.	0.	0.	0.	.69	62.	22.7	C	19.9	4.8
5	3	710.	108.	0.	4332.	108.	0.	4332.	6100.	0.	0.	0.	.71	62.	23.3	C	16.1	4.4
6	3	3820.	172.	1224.	4504.	172.	1224.	4504.	6125.	25.	0.	0.	.74	62.	24.2	C	17.1	4.8
7	2	1220.	0.	0.	3280.	0.	0.	3280.	4400.	0.	0.	0.	.75	62.	26.6	D	18.3	4.2
8	3	4810.	312.	880.	3592.	312.	880.	3416.	6100.	0.	* 4300.	176.	.56	11.	103.8	F	13.1	6.3
9	2	1370.	0.	0.	2712.	0.	0.	2536.	4000.	0.	** 1370.	176.	.63	12.	109.8	F	15.9	6.0
10	2	660.	476.	0.	3188.	476.	0.	3012.	4362.	38.	** 660.	176.	.69	14.	109.7	F	18.1	5.5
11	3	790.	1108.	768.	4296.	1108.	768.	4120.	5486.	614.	** 790.	176.	.75	17.	82.9	F	24.6	4.9
12	2	1460.	0.	0.	3528.	0.	0.	3352.	4100.	0.	** 1460.	176.	.82	20.	81.8	F	18.7	4.1
13	3	1400.	712.	0.	4240.	712.	0.	4064.	5996.	104.	** 1400.	176.	.68	13.	102.6	F	10.9	5.6
14	3	2600.	0.	620.	4240.	0.	620.	4064.	5996.	104.	** 2600.	176.	.68	13.	102.6	F	15.0	5.6
15	2	2010.	0.	0.	3620.	0.	0.	3444.	3900.	0.	** 2010.	176.	.88	26.	67.4	F	14.1	3.4
16	3	6120.	800.	612.	4420.	800.	612.	4244.	6100.	0.	** 6120.	176.	.70	14.	101.4	F	13.4	5.5
17	2	1240.	0.	0.	3808.	0.	0.	3632.	4300.	0.	** 1240.	176.	.84	22.	81.0	F	16.0	3.8
18	3	930.	632.	0.	4440.	632.	0.	4264.	6096.	4.	** 930.	176.	.70	14.	100.7	F	15.6	5.4
19	3	5330.	252.	716.	4692.	252.	716.	4516.	6043.	57.	** 5330.	176.	.75	16.	91.9	F	16.8	5.0
20	2	2830.	0.	0.	3976.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	500.	760.	4476.	500.	730.	4300.	5788.	312.	0.	0.	.74	61.	23.5	C	21.1	3.8
22	2	2270.	0.	0.	3716.	0.	0.	3570.	4400.	0.	0.	0.	.81	61.	29.4	D	21.2	3.6
23	2	3040.	212.	424.	3928.	212.	408.	3782.	4100.	0.	0.	0.	.92	57.	33.3	D	22.6	2.4
24	2	2190.	0.	0.	3504.	0.	0.	3374.	4200.	0.	0.	0.	.80	63.	26.8	D	20.1	5.0
25	3	2400.	100.	3604.	3604.	100.	3474.	3474.	6150.	0.	0.	0.	.56	65.	17.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 24.	60.6		16.4	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	464. VEH-HRS	548. PASS-HRS	4936. VEH-HRS	5825. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	464. VEH-HRS	548. PASS-HRS	4936. VEH-HRS	5825. PASS-HRS
TOTAL TRAV DISTANCE =	10943. VEH-MI.	12912. PASS-MI.	158029. VEH-MI.	186474. PASS-MI.
AVERAGE SYSTEM SPEED =	24. MPH.		32. MPH.	
AVERAGE DENSITY =	61. VPMPL		46. VPMPL	
TOTAL FUEL =	666. GALLONS		8900. GALLONS	
TOTAL EMISSIONS =	48. KILOGRAMS		624. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2872.	0.	2872.	2872.	0.	2872.	3850.	0.	0.	0.	.75	50.	28.7	D	17.4	2.3
2	2	2070.	300.	0.	3172.	300.	0.	3172.	3838.	12.	0.	0.	.83	50.	31.7	D	15.9	2.3
3	3	2300.	1160.	404.	4332.	1160.	404.	4332.	5820.	280.	0.	0.	.74	55.	26.3	D	14.0	2.4
4	3	1020.	0.	0.	3928.	0.	0.	3928.	6100.	0.	0.	0.	.64	62.	21.1	C	19.9	4.8
5	3	710.	112.	0.	4040.	112.	0.	4040.	6100.	0.	0.	0.	.66	62.	21.7	C	16.1	4.4
6	3	3820.	176.	1156.	4216.	176.	1156.	4216.	6137.	13.	0.	0.	.69	62.	22.7	C	17.1	4.8
7	2	1220.	0.	0.	3060.	0.	0.	2872.	4400.	0.	* 435.	188.	.65	51.	28.3	F	17.7	4.4
8	3	4810.	396.	844.	3456.	396.	844.	3268.	6100.	0.	** 4810.	188.	.54	9.	123.8	F	11.5	7.0
9	2	1370.	0.	0.	2612.	0.	0.	2424.	4000.	0.	** 1370.	188.	.61	11.	114.4	F	15.1	6.2
10	2	660.	532.	0.	3144.	532.	0.	2956.	4358.	42.	** 660.	188.	.68	13.	111.8	F	17.5	5.6
11	3	790.	1056.	732.	4200.	1056.	732.	4012.	5502.	598.	** 790.	188.	.73	15.	86.4	F	23.4	5.2
12	2	1460.	0.	0.	3468.	0.	0.	3280.	4100.	0.	** 1460.	188.	.80	19.	84.7	F	18.2	4.3
13	3	1400.	724.	0.	4192.	724.	0.	4004.	5996.	104.	** 1400.	188.	.67	13.	104.2	F	10.8	5.7
14	3	2600.	0.	600.	4192.	0.	600.	4004.	5996.	104.	** 2600.	188.	.67	13.	104.2	F	14.7	5.7
15	2	2010.	0.	0.	3592.	0.	0.	3404.	3900.	0.	** 2010.	188.	.87	25.	69.0	F	14.0	3.5
16	3	6120.	812.	564.	4404.	812.	564.	4216.	6100.	0.	** 6120.	188.	.69	14.	102.1	F	13.3	5.5
17	2	1240.	0.	0.	3840.	0.	0.	3652.	4300.	0.	** 1240.	188.	.85	23.	80.2	F	16.1	3.8
18	3	930.	624.	0.	4464.	624.	0.	4276.	6097.	3.	** 930.	188.	.70	14.	100.4	F	15.7	5.4
19	3	5330.	212.	688.	4676.	212.	688.	4488.	6041.	59.	** 5330.	188.	.74	16.	92.6	F	16.8	5.0
20	2	2830.	0.	0.	3988.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	432.	696.	4420.	432.	666.	4232.	5882.	218.	0.	0.	.72	61.	23.1	C	21.1	3.8
22	2	2270.	0.	0.	3724.	0.	0.	3566.	4400.	0.	0.	0.	.81	61.	29.3	D	21.2	3.7
23	2	3040.	256.	408.	3980.	256.	392.	3822.	4100.	0.	0.	0.	.93	56.	34.0	D	22.8	2.3
24	2	2190.	0.	0.	3572.	0.	0.	3430.	4200.	0.	0.	0.	.82	63.	27.4	D	20.3	4.7
25	3	2400.	128.	3700.	3700.	128.	3558.	3558.	6150.	0.	0.	0.	.58	65.	18.2	C	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 22.	62.2		16.2	4.4

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	478. VEH-HRS	564. PASS-HRS	5415. VEH-HRS	6389. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	478. VEH-HRS	564. PASS-HRS	5415. VEH-HRS	6389. PASS-HRS
TOTAL TRAV DISTANCE =	10650. VEH-MI.	12567. PASS-MI.	168679. VEH-MI.	199042. PASS-MI.
AVERAGE SYSTEM SPEED =	22. MPH.		31. MPH.	
AVERAGE DENSITY =	62. VPMPL		47. VPMPL	
TOTAL FUEL =	659. GALLONS		9559. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		672. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3632.	0.	3632.	3632.	0.	3597.	3850.	0.	* 1057.	35.	.93	48.	37.8	F	17.1	2.4
2	2	2070.	244.	0.	3876.	244.	0.	3841.	3841.	9.	0.	0.	1.00	49.	39.3	E	15.7	2.3
3	3	2300.	1072.	388.	4948.	1072.	385.	4913.	5816.	284.	0.	0.	.84	55.	29.8	D	14.0	2.4
4	3	1020.	0.	0.	4560.	0.	0.	4527.	6100.	0.	0.	0.	.74	62.	24.3	C	19.9	4.8
5	3	710.	100.	0.	4660.	100.	0.	4627.	6100.	0.	0.	0.	.76	62.	25.0	C	16.3	4.1
6	3	3820.	148.	1192.	4808.	148.	1184.	4693.	6133.	17.	* 61.	83.	.77	61.	25.5	F	17.4	4.4
7	2	1220.	0.	0.	3616.	0.	0.	3509.	4400.	0.	** 1220.	83.	.80	24.	73.2	F	15.9	4.1
8	3	4810.	288.	864.	3904.	288.	859.	3797.	6100.	0.	** 4810.	83.	.62	11.	113.6	F	13.8	6.1
9	2	1370.	0.	0.	3040.	0.	0.	2938.	4000.	0.	** 1370.	83.	.73	16.	93.4	F	20.1	5.1
10	2	660.	424.	0.	3464.	424.	0.	3362.	4365.	35.	** 660.	83.	.77	18.	95.5	F	21.8	4.7
11	3	790.	1088.	808.	4552.	1088.	805.	4450.	5443.	657.	** 790.	83.	.82	20.	72.4	F	29.3	4.1
12	2	1460.	0.	0.	3744.	0.	0.	3646.	4100.	0.	** 1460.	83.	.89	26.	69.8	F	20.4	3.3
13	3	1400.	716.	0.	4460.	716.	0.	4362.	5992.	108.	** 1400.	83.	.73	15.	94.3	F	11.6	5.2
14	3	2600.	0.	676.	4460.	0.	674.	4362.	5992.	108.	** 2600.	83.	.73	15.	94.3	F	16.5	5.2
15	2	2010.	0.	0.	3784.	0.	0.	3688.	3900.	0.	** 2010.	83.	.95	32.	57.4	F	15.2	2.7
16	3	6120.	708.	680.	4492.	708.	678.	4396.	6100.	0.	** 6120.	83.	.72	15.	97.2	F	14.0	5.2
17	2	1240.	0.	0.	3812.	0.	0.	3718.	4300.	0.	** 1240.	83.	.86	24.	77.5	F	16.5	3.6
18	3	930.	612.	0.	4424.	612.	0.	4330.	6097.	3.	** 930.	83.	.71	15.	98.9	F	16.0	5.3
19	3	5330.	216.	748.	4640.	216.	746.	4546.	6040.	60.	** 5330.	83.	.75	17.	91.0	F	17.0	4.9
20	2	2830.	0.	0.	3892.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	456.	768.	4348.	456.	752.	4256.	5837.	263.	0.	0.	.73	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	3580.	0.	0.	3504.	4400.	0.	0.	0.	.80	61.	28.7	D	21.0	3.8
23	2	3040.	196.	440.	3776.	196.	431.	3700.	4100.	0.	0.	0.	.90	58.	32.1	D	22.3	2.6
24	2	2190.	0.	0.	3336.	0.	0.	3269.	4200.	0.	0.	0.	.78	64.	25.7	C	19.8	5.3
25	3	2400.	104.	3440.	3440.	104.	3373.	3373.	6150.	0.	0.	0.	.55	65.	17.3	B	18.6	6.6

TOTAL 60550. = 11.5 MILES MAX(V/C) = 1.00 LOWEST LOS = F AVG = 25. 60.8 16.8 4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	464. VEH-HRS	548. PASS-HRS	5879. VEH-HRS	6937. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	464. VEH-HRS	548. PASS-HRS	5879. VEH-HRS	6937. PASS-HRS
TOTAL TRAV DISTANCE =	11497. VEH-MI.	13567. PASS-MI.	180177. VEH-MI.	212608. PASS-MI.
AVERAGE SYSTEM SPEED =	25. MPH.		31. MPH.	
AVERAGE DENSITY =	61. VPMPL		48. VPMPL	
TOTAL FUEL =	685. GALLONS		10244. GALLONS	
TOTAL EMISSIONS =	48. KILOGRAMS		720. KILOGRAMS	

QUEUE CLEAR SECTION 1 FT= 280

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	3108.	0.	3108.	3108.	0.	3161.	3850.	0.	0.	-53.	.82	43.	36.4	E	16.7	2.6
2	2	2070.	280.	0.	3388.	280.	0.	3441.	3841.	9.	0.	0.	.90	50.	34.4	D	15.9	2.3
3	3	2300.	1300.	332.	4688.	1300.	336.	4741.	5861.	239.	0.	0.	.81	55.	28.7	D	14.0	2.4
4	3	1020.	0.	0.	4356.	0.	0.	4405.	6100.	0.	0.	0.	.72	62.	23.7	C	19.9	4.8
5	3	710.	152.	0.	4508.	152.	0.	4557.	6100.	0.	0.	0.	.75	62.	24.5	C	16.1	4.4
6	3	3820.	192.	1140.	4700.	192.	1152.	4749.	6136.	14.	0.	0.	.77	61.	25.8	C	17.4	4.5
7	2	1220.	0.	0.	3560.	0.	0.	3597.	4400.	0.	0.	0.	.82	39.	46.2	F	17.8	3.6
8	3	4810.	336.	780.	3896.	336.	787.	4099.	6100.	0.	* 4482.	-166.	.67	13.	104.3	F	14.9	5.7
9	2	1370.	0.	0.	3116.	0.	0.	3312.	4000.	0.	** 1370.	-166.	.83	21.	78.1	F	24.7	4.0
10	2	660.	276.	0.	3392.	276.	0.	3588.	4376.	24.	** 660.	-166.	.82	21.	86.9	F	24.5	4.1
11	3	790.	1096.	816.	4488.	1096.	821.	4684.	5456.	644.	** 790.	-166.	.86	23.	66.5	F	31.7	3.7
12	2	1460.	0.	0.	3672.	0.	0.	3862.	4100.	0.	** 1460.	-166.	.94	32.	61.0	F	21.9	2.8
13	3	1400.	680.	0.	4352.	680.	0.	4542.	5988.	112.	** 1400.	-166.	.76	17.	89.3	F	11.8	4.8
14	3	2600.	0.	716.	4352.	0.	720.	4542.	5988.	112.	** 2600.	-166.	.76	17.	89.3	F	17.1	4.8
15	2	2010.	0.	0.	3636.	0.	0.	3822.	3900.	0.	** 2010.	-166.	.98	37.	51.9	F	15.4	2.4
16	3	6120.	680.	736.	4316.	680.	739.	4502.	6100.	0.	** 6120.	-166.	.74	16.	94.3	F	14.2	5.1
17	2	1240.	0.	0.	3580.	0.	0.	3763.	4300.	0.	** 1240.	-166.	.88	25.	75.7	F	16.8	3.4
18	3	930.	540.	0.	4120.	540.	0.	4303.	6099.	1.	** 930.	-166.	.71	14.	99.7	F	15.8	5.4
19	3	5330.	200.	700.	4320.	200.	703.	4503.	6051.	49.	** 5330.	-166.	.74	16.	92.6	F	16.8	5.0
20	2	2830.	0.	0.	3620.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	472.	756.	4092.	472.	789.	4272.	5831.	269.	0.	0.	.73	61.	23.3	C	21.1	3.8
22	2	2270.	0.	0.	3336.	0.	0.	3483.	4400.	0.	0.	0.	.79	61.	28.5	D	21.0	3.9
23	2	3040.	180.	396.	3516.	180.	413.	3663.	4100.	0.	0.	0.	.89	58.	31.5	D	22.2	2.7
24	2	2190.	0.	0.	3120.	0.	0.	3250.	4200.	0.	0.	0.	.77	64.	25.5	C	19.7	5.4
25	3	2400.	88.	3208.	3208.	88.	3338.	3338.	6150.	0.	0.	0.	.54	65.	17.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 26.	57.6		17.1	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	442. VEH-HRS	522. PASS-HRS	6321. VEH-HRS	7459. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	442. VEH-HRS	522. PASS-HRS	6321. VEH-HRS	7459. PASS-HRS
TOTAL TRAV DISTANCE =	11459. VEH-MI.	13522. PASS-MI.	191636. VEH-MI.	226130. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		30. MPH.	
AVERAGE DENSITY =	58. VPMPL		49. VPMPL	
TOTAL FUEL =	672. GALLONS		10915. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		767. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2908.	0.	2908.	2908.	0.	2908.	3850.	0.	0.	0.	.76	50.	29.1	D	17.4	2.3
2	2	2070.	344.	0.	3252.	344.	0.	3252.	3839.	11.	0.	0.	.85	50.	32.5	D	15.9	2.3
3	3	2300.	1376.	320.	4628.	1376.	320.	4628.	5864.	236.	0.	0.	.79	55.	28.0	D	14.0	2.4
4	3	1020.	0.	0.	4308.	0.	0.	4308.	6100.	0.	0.	0.	.71	62.	23.2	C	19.9	4.8
5	3	710.	212.	0.	4520.	212.	0.	4520.	6100.	0.	0.	0.	.74	62.	24.3	C	16.1	4.4
6	3	3820.	156.	1040.	4676.	156.	1040.	4676.	6150.	0.	0.	0.	.76	62.	25.3	C	17.3	4.6
7	2	1220.	0.	0.	3636.	0.	0.	3636.	4400.	0.	0.	0.	.83	60.	30.1	D	18.9	3.4
8	3	4810.	332.	716.	3968.	332.	716.	4088.	6100.	0.	* 3856.	-120.	.67	14.	94.8	F	15.4	5.5
9	2	1370.	0.	0.	3252.	0.	0.	3372.	4000.	0.	** 1370.	-120.	.84	22.	75.7	F	25.2	3.8
10	2	660.	280.	0.	3532.	280.	0.	3652.	4378.	22.	** 660.	-120.	.83	22.	84.4	F	24.9	3.9
11	3	790.	1012.	784.	4544.	1012.	784.	4664.	5466.	634.	** 790.	-120.	.85	23.	67.4	F	31.3	3.7
12	2	1460.	0.	0.	3760.	0.	0.	3880.	4100.	0.	** 1460.	-120.	.95	32.	60.2	F	22.0	2.7
13	3	1400.	584.	0.	4344.	584.	0.	4464.	6012.	88.	** 1400.	-120.	.74	16.	92.3	F	11.7	5.0
14	3	2600.	0.	644.	4344.	0.	644.	4464.	6012.	88.	** 2600.	-120.	.74	16.	92.3	F	16.7	5.0
15	2	2010.	0.	0.	3700.	0.	0.	3820.	3900.	0.	** 2010.	-120.	.98	37.	52.0	F	15.4	2.4
16	3	6120.	676.	700.	4376.	676.	700.	4496.	6100.	0.	** 6120.	-120.	.74	16.	94.5	F	14.2	5.1
17	2	1240.	0.	0.	3676.	0.	0.	3796.	4300.	0.	** 1240.	-120.	.88	26.	74.3	F	17.0	3.4
18	3	930.	496.	0.	4172.	496.	0.	4292.	6098.	2.	** 930.	-120.	.70	14.	100.0	F	15.8	5.4
19	3	5330.	180.	672.	4352.	180.	672.	4472.	6058.	42.	** 5330.	-120.	.74	16.	93.7	F	16.7	5.1
20	2	2830.	0.	0.	3680.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	416.	684.	4096.	416.	704.	4216.	5909.	191.	0.	0.	.71	61.	23.0	C	21.1	3.8
22	2	2270.	0.	0.	3412.	0.	0.	3512.	4400.	0.	0.	0.	.80	61.	28.8	D	21.1	3.8
23	2	3040.	224.	416.	3636.	224.	427.	3736.	4100.	0.	0.	0.	.91	57.	32.6	D	22.4	2.5
24	2	2190.	0.	0.	3220.	0.	0.	3308.	4200.	0.	0.	0.	.79	63.	26.1	D	19.9	5.2
25	3	2400.	88.	3308.	3308.	88.	3396.	3396.	6150.	0.	0.	0.	.55	65.	17.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 26.	56.0		17.2	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	431. VEH-HRS	509. PASS-HRS	6752. VEH-HRS	7968. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	431. VEH-HRS	509. PASS-HRS	6752. VEH-HRS	7968. PASS-HRS
TOTAL TRAV DISTANCE =	11346. VEH-MI.	13388. PASS-MI.	202981. VEH-MI.	239518. PASS-MI.
AVERAGE SYSTEM SPEED =	26. MPH.		30. MPH.	
AVERAGE DENSITY =	56. VPMPL		49. VPMPL	
TOTAL FUEL =	661. GALLONS		11576. GALLONS	
TOTAL EMISSIONS =	47. KILOGRAMS		814. KILOGRAMS	

QUEUE SPLIT SECTION 15

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2980.	0.	2980.	2980.	0.	2980.	3850.	0.	0.	0.	.77	50.	29.8	D	17.4	2.3
2	2	2070.	356.	0.	3336.	356.	0.	3336.	3837.	13.	0.	0.	.87	50.	33.4	D	15.9	2.3
3	3	2300.	1440.	372.	4776.	1440.	372.	4776.	5826.	274.	0.	0.	.82	55.	28.9	D	14.0	2.4
4	3	1020.	0.	0.	4404.	0.	0.	4404.	6100.	0.	0.	0.	.72	62.	23.7	C	19.9	4.8
5	3	710.	224.	0.	4628.	224.	0.	4628.	6100.	0.	0.	0.	.76	62.	25.0	C	16.3	4.1
6	3	3820.	272.	732.	4900.	272.	732.	4900.	6150.	0.	0.	0.	.80	61.	26.7	D	17.5	4.3
7	2	1220.	0.	0.	4168.	0.	0.	4168.	4400.	0.	0.	0.	.95	55.	37.7	E	20.4	2.1
8	3	4810.	340.	764.	4508.	340.	764.	4417.	6100.	0.	* 4406.	91.	.72	17.	86.2	F	16.9	5.1
9	2	1370.	0.	0.	3744.	0.	0.	3653.	4000.	0.	** 1370.	91.	.91	28.	64.2	F	27.8	3.1
10	2	660.	360.	0.	4104.	360.	0.	4013.	4373.	27.	** 660.	91.	.92	29.	69.3	F	28.0	3.0
11	3	790.	848.	832.	4952.	848.	832.	4861.	5379.	721.	** 790.	91.	.90	27.	58.9	F	35.0	3.2
12	2	1460.	0.	0.	4120.	0.	0.	4029.	4100.	0.	** 1460.	71.	.98	37.	54.1	F	22.9	2.4
13	3	1400.	464.	0.	4584.	464.	0.	4493.	6040.	60.	** 1400.	71.	.74	16.	92.5	F	11.7	5.0
14	3	2600.	0.	596.	4584.	0.	593.	4493.	6040.	60.	** 2600.	71.	.74	16.	92.5	F	16.8	5.0
15	2	2010.	0.	0.	3988.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	520.	768.	4508.	520.	753.	4709.	6100.	0.	* 4154.	-289.	.77	20.	79.0	F	15.1	4.6
17	2	1240.	0.	0.	3740.	0.	0.	3956.	4300.	0.	** 1240.	-289.	.92	29.	67.8	F	18.1	3.0
18	3	930.	400.	0.	4140.	400.	0.	4356.	6098.	2.	** 930.	-289.	.71	15.	98.3	F	16.1	5.3
19	3	5330.	152.	720.	4292.	152.	708.	4508.	6062.	38.	** 5330.	-289.	.74	16.	92.9	F	16.8	5.0
20	2	2830.	0.	0.	3572.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	340.	776.	3912.	340.	821.	4140.	5937.	163.	0.	0.	.70	61.	22.6	C	21.1	3.8
22	2	2270.	0.	0.	3136.	0.	0.	3319.	4400.	0.	0.	0.	.75	62.	26.9	D	20.7	4.2
23	2	3040.	188.	480.	3324.	188.	506.	3507.	4100.	0.	0.	0.	.86	60.	29.4	D	21.7	3.1
24	2	2190.	0.	0.	2844.	0.	0.	3001.	4200.	0.	0.	0.	.71	65.	23.2	C	19.3	5.9
25	3	2400.	80.	2924.	2924.	80.	3081.	3081.	6150.	0.	0.	0.	.50	65.	15.8	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 1.00		LOWEST LOS = F	AVG = 29.	52.3		17.6	3.9

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 19 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	403. VEH-HRS	476. PASS-HRS	7155. VEH-HRS	8443. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	403. VEH-HRS	476. PASS-HRS	7155. VEH-HRS	8443. PASS-HRS
TOTAL TRAV DISTANCE =	11555. VEH-MI.	13635. PASS-MI.	214537. VEH-MI.	253153. PASS-MI.
AVERAGE SYSTEM SPEED =	29. MPH.		30. MPH.	
AVERAGE DENSITY =	52. VPMPL		49. VPMPL	
TOTAL FUEL =	656. GALLONS		12233. GALLONS	
TOTAL EMISSIONS =	46. KILOGRAMS		859. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	2272.	0.	2272.	2272.	0.	2272.	3850.	0.	0.	0.	.59	50.	22.7	C	17.4	2.3
2	2	2070.	340.	0.	2612.	340.	0.	2612.	3841.	9.	0.	0.	.68	50.	26.1	D	15.9	2.3
3	3	2300.	1536.	360.	4148.	1536.	360.	4148.	5862.	238.	0.	0.	.71	55.	25.1	C	14.0	2.4
4	3	1020.	0.	0.	3788.	0.	0.	3788.	6100.	0.	0.	0.	.62	62.	20.4	C	19.9	4.8
5	3	710.	328.	0.	4116.	328.	0.	4116.	6100.	0.	0.	0.	.67	62.	22.1	C	16.1	4.4
6	3	3820.	320.	820.	4436.	320.	820.	4436.	6150.	0.	0.	0.	.72	62.	23.8	C	17.1	4.8
7	2	1220.	0.	0.	3616.	0.	0.	3616.	4400.	0.	0.	0.	.82	61.	29.9	D	18.8	3.5
8	3	4810.	428.	708.	4044.	428.	708.	4352.	6100.	0.	* 2639.	-308.	.71	18.	79.4	F	17.0	5.1
9	2	1370.	0.	0.	3336.	0.	0.	3644.	4000.	0.	** 1370.	-308.	.91	28.	64.5	F	27.7	3.1
10	2	660.	324.	0.	3660.	324.	0.	3968.	4375.	25.	** 660.	-308.	.91	28.	71.3	F	27.5	3.1
11	3	790.	800.	756.	4460.	800.	756.	4768.	5449.	651.	** 790.	-308.	.87	25.	64.0	F	32.9	3.4
12	2	1460.	0.	0.	3704.	0.	0.	4012.	4100.	0.	** 1460.	-308.	.98	37.	54.8	F	22.8	2.4
13	3	1400.	440.	0.	4144.	440.	0.	4452.	6040.	60.	** 1400.	-308.	.74	16.	93.6	F	11.7	5.1
14	3	2600.	0.	552.	4144.	0.	552.	4452.	6040.	60.	** 2600.	-308.	.74	16.	93.6	F	16.6	5.1
15	2	2010.	0.	0.	3592.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	404.	704.	3996.	404.	758.	4638.	6100.	0.	* 1977.	-334.	.76	26.	59.1	F	16.0	4.6
17	2	1240.	0.	0.	3292.	0.	0.	3880.	4300.	0.	** 1240.	-334.	.90	27.	70.9	F	17.5	3.2
18	3	930.	436.	0.	3728.	436.	0.	4316.	6100.	0.	** 930.	-334.	.71	14.	99.4	F	15.9	5.4
19	3	5330.	128.	604.	3856.	128.	644.	4444.	6068.	32.	** 5330.	-334.	.73	16.	94.8	F	16.5	5.1
20	2	2830.	0.	0.	3252.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	340.	660.	3592.	340.	760.	4140.	5990.	110.	0.	0.	.69	61.	22.6	C	21.1	3.8
22	2	2270.	0.	0.	2932.	0.	0.	3380.	4400.	0.	0.	0.	.77	62.	27.5	D	20.8	4.1
23	2	3040.	128.	404.	3060.	128.	463.	3508.	4100.	0.	0.	0.	.86	60.	29.4	D	21.7	3.1
24	2	2190.	0.	0.	2656.	0.	0.	3044.	4200.	0.	0.	0.	.72	65.	23.6	C	19.4	5.8
25	3	2400.	76.	2732.	2732.	76.	3120.	3120.	6150.	0.	0.	0.	.51	65.	16.0	B	18.6	6.6
TOTAL		60550. =	11.5 MILES										MAX(V/C) = 1.00	LOWEST LOS = F		AVG = 29.	48.7	17.7	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	372. VEH-HRS	439. PASS-HRS	7528. VEH-HRS	8883. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	372. VEH-HRS	439. PASS-HRS	7528. VEH-HRS	8883. PASS-HRS
TOTAL TRAV DISTANCE =	10929. VEH-MI.	12896. PASS-MI.	225465. VEH-MI.	266049. PASS-MI.
AVERAGE SYSTEM SPEED =	29. MPH.		30. MPH.	
AVERAGE DENSITY =	49. VPMPL		49. VPMPL	
TOTAL FUEL =	617. GALLONS		12850. GALLONS	
TOTAL EMISSIONS =	45. KILOGRAMS		904. KILOGRAMS	

```
QUEUE SPLIT SECTION 12
QUEUE CLEAR SECTION  12 T2 =0.235
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1760.	0.	1760.	1760.	0.	1760.	3850.	0.	0.	0.	.46	50.	17.6	B	17.4	2.3
2	2	2070.	412.	0.	2172.	412.	0.	2172.	3845.	5.	0.	0.	.56	50.	21.7	C	15.9	2.3
3	3	2300.	1364.	352.	3536.	1364.	352.	3536.	5888.	212.	0.	0.	.60	55.	21.4	C	14.0	2.4
4	3	1020.	0.	0.	3184.	0.	0.	3184.	6100.	0.	0.	0.	.52	62.	17.1	B	19.9	4.8
5	3	710.	200.	0.	3384.	200.	0.	3384.	6100.	0.	0.	0.	.55	62.	18.2	C	16.1	4.4
6	3	3820.	304.	680.	3688.	304.	680.	3688.	6150.	0.	0.	0.	.60	62.	19.8	C	17.1	4.8
7	2	1220.	0.	0.	3008.	0.	0.	3008.	4400.	0.	0.	0.	.68	62.	24.3	C	18.2	4.4
8	3	4810.	412.	592.	3420.	412.	592.	3420.	6100.	0.	0.	0.	.56	37.	30.7	D	19.4	4.6
9	2	1370.	0.	0.	2828.	0.	0.	2828.	4000.	0.	0.	0.	.71	34.	41.4	E	26.4	3.4
10	2	660.	252.	0.	3080.	252.	0.	3080.	4378.	22.	0.	0.	.70	31.	50.4	F	26.2	3.5
11	3	790.	792.	740.	3872.	792.	740.	3872.	5486.	614.	0.	0.	.71	26.	49.4	F	31.3	3.8
12	2	1460.	0.	0.	3132.	0.	0.	3966.	4100.	0.	0.	-834.	.97	36.	54.7	F	22.4	2.7
13	3	1400.	416.	0.	3548.	416.	0.	4382.	6028.	72.	0.	0.	.73	32.	44.9	E	12.9	4.5
14	3	2600.	0.	620.	3548.	0.	766.	4666.	6028.	72.	* 2028.	-284.	.77	18.	85.4	F	17.5	4.6
15	2	2010.	0.	0.	2928.	0.	0.	3900.	3900.	0.	0.	0.	1.00	52.	37.8	E	17.0	2.0
16	3	6120.	392.	704.	3320.	392.	910.	4292.	6100.	0.	0.	0.	.70	50.	28.7	D	17.7	4.4
17	2	1240.	0.	0.	2616.	0.	0.	3382.	4300.	0.	0.	0.	.79	33.	51.2	F	17.8	3.4
18	3	930.	488.	0.	3104.	488.	0.	4366.	6100.	0.	* 194.	-496.	.72	16.	91.2	F	16.5	5.2
19	3	5330.	132.	564.	3236.	132.	698.	4498.	6086.	14.	** 5330.	-496.	.74	16.	94.0	F	16.7	5.1
20	2	2830.	0.	0.	2672.	0.	0.	3800.	3800.	0.	0.	0.	1.00	51.	37.0	E	24.0	2.0
21	3	1660.	392.	684.	3064.	392.	935.	4192.	5963.	137.	0.	0.	.70	61.	22.9	C	21.1	3.8
22	2	2270.	0.	0.	2380.	0.	0.	3257.	4400.	0.	0.	0.	.74	62.	26.4	D	20.7	4.2
23	2	3040.	92.	348.	2472.	92.	471.	3349.	4100.	0.	0.	0.	.82	61.	27.6	D	21.3	3.6
24	2	2190.	0.	0.	2124.	0.	0.	2878.	4200.	0.	0.	0.	.69	65.	22.1	C	19.2	6.1
25	3	2400.	72.	2196.	2196.	72.	2950.	2950.	6150.	0.	0.	0.	.48	65.	15.1	B	18.6	6.6
TOTAL		60550. =	11.5 MILES									MAX(V/C) = 1.00	LOWEST LOS = F	AVG = 35.	37.2		18.3	4.1

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	287. VEH-HRS	338. PASS-HRS	7815. VEH-HRS	9221. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	287. VEH-HRS	338. PASS-HRS	7815. VEH-HRS	9221. PASS-HRS
TOTAL TRAV DISTANCE =	10159. VEH-MI.	11987. PASS-MI.	235624. VEH-MI.	278036. PASS-MI.
AVERAGE SYSTEM SPEED =	35. MPH.		30. MPH.	
AVERAGE DENSITY =	37. VPMPL		49. VPMPL	
TOTAL FUEL =	557. GALLONS		13407. GALLONS	
TOTAL EMISSIONS =	41. KILOGRAMS		945. KILOGRAMS	

```
QUEUE CLEAR SECTION  19 T2 =0.221
QUEUE CLEAR SECTION  14 FT=   189
```

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1592.	0.	1592.	1592.	0.	1592.	3850.	0.	0.	0.	.41	50.	15.9	B	17.4	2.3
2	2	2070.	444.	0.	2036.	444.	0.	2036.	3848.	2.	0.	0.	.53	50.	20.4	C	15.9	2.3
3	3	2300.	1312.	308.	3348.	1312.	308.	3348.	5918.	182.	0.	0.	.57	55.	20.3	C	14.0	2.4
4	3	1020.	0.	0.	3040.	0.	0.	3040.	6100.	0.	0.	0.	.50	62.	16.3	B	19.9	4.8
5	3	710.	128.	0.	3168.	128.	0.	3168.	6100.	0.	0.	0.	.52	62.	17.0	B	16.1	4.4
6	3	3820.	360.	620.	3528.	360.	620.	3528.	6150.	0.	0.	0.	.57	62.	19.0	C	17.1	4.8
7	2	1220.	0.	0.	2908.	0.	0.	2908.	4400.	0.	0.	0.	.66	62.	23.5	C	18.2	4.4
8	3	4810.	432.	680.	3340.	432.	680.	3340.	6100.	0.	0.	0.	.55	62.	18.0	B	20.6	4.4
9	2	1370.	0.	0.	2660.	0.	0.	2660.	4000.	0.	0.	0.	.67	62.	21.5	C	23.6	4.4
10	2	660.	248.	0.	2908.	248.	0.	2908.	4380.	20.	0.	0.	.66	62.	23.5	C	23.6	4.4
11	3	790.	688.	612.	3596.	688.	612.	3596.	5580.	520.	0.	0.	.64	62.	19.3	C	30.0	4.4
12	2	1460.	0.	0.	2984.	0.	0.	2984.	4100.	0.	0.	0.	.73	62.	24.1	C	20.6	4.4
13	3	1400.	344.	0.	3328.	344.	0.	3328.	6040.	60.	0.	0.	.55	62.	17.9	B	13.6	4.4
14	3	2600.	0.	568.	3328.	0.	568.	3727.	6040.	60.	0.	-399.	.62	20.	62.4	F	16.7	5.1
15	2	2010.	0.	0.	2760.	0.	0.	3159.	3900.	0.	0.	0.	.81	61.	26.0	C	15.1	3.7
16	3	6120.	440.	692.	3200.	440.	778.	3599.	6100.	0.	0.	0.	.59	62.	19.3	C	18.2	4.4
17	2	1240.	0.	0.	2508.	0.	0.	2821.	4300.	0.	0.	0.	.66	62.	22.7	C	18.2	4.4
18	3	930.	320.	0.	2828.	320.	0.	3141.	6100.	0.	0.	0.	.51	61.	17.1	B	20.5	4.4
19	3	5330.	108.	576.	2936.	108.	637.	4385.	6097.	3.	0.	-1136.	.72	23.	63.0	F	18.0	4.8
20	2	2830.	0.	0.	2360.	0.	0.	3747.	3800.	0.	0.	0.	.99	52.	35.8	E	23.7	2.0
21	3	1660.	368.	604.	2728.	368.	912.	4115.	6028.	72.	0.	0.	.68	61.	22.5	C	21.1	3.8
22	2	2270.	0.	0.	2124.	0.	0.	3203.	4400.	0.	0.	0.	.73	62.	25.9	C	20.6	4.3
23	2	3040.	112.	372.	2236.	112.	551.	3315.	4100.	0.	0.	0.	.81	61.	27.2	D	21.2	3.7
24	2	2190.	0.	0.	1864.	0.	0.	2764.	4200.	0.	0.	0.	.66	65.	21.3	C	19.2	6.1
25	3	2400.	44.	1908.	1908.	44.	2808.	2808.	6150.	0.	0.	0.	.46	65.	14.4	B	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.99	LOWEST LOS = F		AVG = 47.	26.4		18.5	4.2

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	190. VEH-HRS	224. PASS-HRS	8004. VEH-HRS	9445. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	190. VEH-HRS	224. PASS-HRS	8004. VEH-HRS	9445. PASS-HRS
TOTAL TRAV DISTANCE =	8966. VEH-MI.	10580. PASS-MI.	244590. VEH-MI.	288617. PASS-MI.
AVERAGE SYSTEM SPEED =	47. MPH.		31. MPH.	
AVERAGE DENSITY =	26. VPMPL		48. VPMPL	
TOTAL FUEL =	485. GALLONS		13892. GALLONS	
TOTAL EMISSIONS =	37. KILOGRAMS		982. KILOGRAMS	

TIME SLICE FREEWAY PERFORMANCE TABLE

SUB SEC	NO. LNS	SSEC LENGTH	O-D DATA DEMANDS ORG	DES	SSEC	ADJUSTED VOLUMES ORG	DES	SSEC	SSEC CAP.	WEAVE EFF	CONGEST LENGTH	STORAGE RATE	V/C RATIO	SPEED MPH	DENSITY VPMPL	LOS LEVEL	FUEL MPG	EMISS GS/VM
1	2	6300.	1496.	0.	1496.	1496.	0.	1496.	3850.	0.	0.	0.	.39	50.	15.0	B	17.4	2.3
2	2	2070.	440.	0.	1936.	440.	0.	1936.	3850.	0.	0.	0.	.50	50.	19.4	C	15.9	2.3
3	3	2300.	1320.	320.	3256.	1320.	320.	3256.	5916.	184.	0.	0.	.55	55.	19.7	C	14.0	2.4
4	3	1020.	0.	0.	2936.	0.	0.	2936.	6100.	0.	0.	0.	.48	62.	15.8	B	19.9	4.8
5	3	710.	140.	0.	3076.	140.	0.	3076.	6100.	0.	0.	0.	.50	62.	16.5	B	16.1	4.4
6	3	3820.	256.	596.	3332.	256.	596.	3332.	6150.	0.	0.	0.	.54	62.	17.9	B	17.1	4.8
7	2	1220.	0.	0.	2736.	0.	0.	2736.	4400.	0.	0.	0.	.62	62.	22.1	C	18.2	4.4
8	3	4810.	400.	780.	3136.	400.	780.	3136.	6100.	0.	0.	0.	.51	62.	16.9	B	20.6	4.4
9	2	1370.	0.	0.	2356.	0.	0.	2356.	4000.	0.	0.	0.	.59	62.	19.0	C	23.6	4.4
10	2	660.	272.	0.	2628.	272.	0.	2628.	4375.	25.	0.	0.	.60	62.	21.2	C	23.6	4.4
11	3	790.	568.	664.	3196.	568.	664.	3196.	5617.	483.	0.	0.	.57	62.	17.2	B	30.0	4.4
12	2	1460.	0.	0.	2532.	0.	0.	2532.	4100.	0.	0.	0.	.62	62.	20.4	C	20.6	4.4
13	3	1400.	324.	0.	2856.	324.	0.	2856.	6051.	49.	0.	0.	.47	62.	15.4	B	13.6	4.4
14	3	2600.	0.	472.	2856.	0.	472.	2856.	6051.	49.	0.	0.	.47	62.	15.4	B	20.6	4.4
15	2	2010.	0.	0.	2384.	0.	0.	2384.	3900.	0.	0.	0.	.61	62.	19.2	C	14.7	4.4
16	3	6120.	344.	608.	2728.	344.	608.	2728.	6100.	0.	0.	0.	.45	62.	14.7	B	18.2	4.4
17	2	1240.	0.	0.	2120.	0.	0.	2120.	4300.	0.	0.	0.	.49	62.	17.1	B	18.2	4.4
18	3	930.	200.	0.	2320.	200.	0.	2320.	6100.	0.	0.	0.	.38	62.	12.5	B	20.6	4.4
19	3	5330.	76.	488.	2396.	76.	488.	2396.	6100.	0.	0.	0.	.39	62.	12.9	B	20.6	4.4
20	2	2830.	0.	0.	1908.	0.	0.	1908.	3800.	0.	0.	0.	.50	61.	15.6	B	21.1	3.8
21	3	1660.	284.	456.	2192.	284.	456.	2192.	6100.	0.	0.	0.	.36	61.	12.0	B	21.1	3.8
22	2	2270.	0.	0.	1736.	0.	0.	1736.	4400.	0.	0.	0.	.39	62.	14.0	B	20.6	4.4
23	2	3040.	104.	332.	1840.	104.	332.	1840.	4100.	0.	0.	0.	.45	62.	14.8	B	20.6	4.4
24	2	2190.	0.	0.	1508.	0.	0.	1508.	4200.	0.	0.	0.	.36	65.	11.6	B	19.2	6.1
25	3	2400.	36.	1544.	1544.	36.	1544.	1544.	6150.	0.	0.	0.	.25	65.	7.9	A	18.6	6.6
TOTAL		60550. =	11.5 MILES								MAX(V/C) = 0.62		LOWEST LOS = C	AVG = 60.	15.6		18.6	4.2

SIMULATION BEFORE ENTRY CONTROL
TIME SLICE 23 OF 23

	CURRENT TIME SLICE		CUMULATIVE VALUES	
FREEWAY TRAVEL TIME =	113. VEH-HRS	134. PASS-HRS	8118. VEH-HRS	9579. PASS-HRS
FREEWAY MERGE DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
ON-RAMP MRG/CAP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
OFF-RAMP DELAY =	0. VEH-HRS	0. PASS-HRS	0. VEH-HRS	0. PASS-HRS
TOTAL SYSTEM TRAVEL TIME =	113. VEH-HRS	134. PASS-HRS	8118. VEH-HRS	9579. PASS-HRS
TOTAL TRAV DISTANCE =	6841. VEH-MI.	8072. PASS-MI.	251432. VEH-MI.	296689. PASS-MI.
AVERAGE SYSTEM SPEED =	60. MPH.		31. MPH.	
AVERAGE DENSITY =	16. VPMPL		46. VPMPL	
TOTAL FUEL =	369. GALLONS		14260. GALLONS	
TOTAL EMISSIONS =	29. KILOGRAMS		1011. KILOGRAMS	

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME VEH-HR	FREEWAY TRAVEL TIME PAS-HR	RAMP DELAY VEH-HR	RAMP DELAY PAS-HR	TOTAL FREEWAY TRAVEL TIME VEH-HR	TOTAL FREEWAY TRAVEL TIME PAS-HR	TOTAL TRAVEL DISTANCE VEH-MI	TOTAL TRAVEL DISTANCE PAS-MI	AVERAGE SPEED MPH	GASOLINE CONSUMED GALLONS	HYDROCARB EMISSIONS KILOGRAMS	CARBON MONOXIDE KILOGRAMS	NITROUS OXIDES KILOGRAMS	BEGIN TIME
1	202.	238.	0.	0.	202.	238.	11562.	13643.	57.3	600.	2.	30.	10.	14:00
2	230.	271.	0.	0.	230.	271.	12015.	14177.	52.2	626.	2.	30.	10.	14:15
3	247.	291.	0.	0.	247.	291.	11601.	13689.	47.0	613.	2.	31.	9.	14:30
4	291.	343.	0.	0.	291.	343.	12229.	14430.	42.0	646.	2.	31.	10.	14:45
5	316.	373.	0.	0.	316.	373.	11262.	13289.	35.6	617.	2.	33.	9.	15:00
6	342.	403.	0.	0.	342.	403.	11098.	13096.	32.5	622.	2.	33.	9.	15:15
7	355.	419.	0.	0.	355.	419.	10949.	12919.	30.8	619.	3.	33.	9.	15:30
8	378.	446.	0.	0.	378.	446.	11608.	13698.	30.7	660.	3.	34.	9.	15:45
9	387.	457.	0.	0.	387.	457.	11224.	13244.	29.0	642.	3.	34.	9.	16:00
10	399.	471.	0.	0.	399.	471.	11354.	13398.	28.5	653.	3.	35.	9.	16:15
11	415.	489.	0.	0.	415.	489.	10878.	12836.	26.2	636.	3.	34.	8.	16:30
12	454.	535.	0.	0.	454.	535.	10721.	12651.	23.6	654.	3.	35.	8.	16:45
13	457.	539.	0.	0.	457.	539.	10586.	12491.	23.2	647.	3.	35.	8.	17:00
14	464.	548.	0.	0.	464.	548.	10943.	12912.	23.6	666.	3.	36.	8.	17:15
15	478.	564.	0.	0.	478.	564.	10650.	12567.	22.3	659.	3.	36.	8.	17:30
16	464.	548.	0.	0.	464.	548.	11497.	13567.	24.8	685.	3.	36.	9.	17:45
17	442.	522.	0.	0.	442.	522.	11459.	13522.	25.9	672.	3.	36.	9.	18:00
18	431.	509.	0.	0.	431.	509.	11346.	13388.	26.3	661.	3.	35.	9.	18:15
19	403.	476.	0.	0.	403.	476.	11555.	13635.	28.7	656.	3.	34.	9.	18:30
20	372.	439.	0.	0.	372.	439.	10929.	12896.	29.3	617.	3.	34.	8.	18:45

FREEWAY SUMMARY TABLE
SIMULATION BEFORE CONTROL

TIME SLICE	FREEWAY TRAVEL TIME		RAMP DELAY		TOTAL FREEWAY TRAVEL TIME		TOTAL TRAVEL DISTANCE		AVERAGE SPEED	GASOLINE CONSUMED	HYDROCARB EMISSIONS	CARBON MONOXIDE	NITROUS OXIDES	BEGIN TIME
	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-HR	PAS-HR	VEH-MI	PAS-MI	MPH	GALLONS	KILOGRAMS	KILOGRAMS	KILOGRAMS	
21	287.	338.	0.	0.	287.	338.	10159.	11987.	35.4	557.	2.	31.	8.	19:00
22	190.	224.	0.	0.	190.	224.	8966.	10580.	47.3	485.	2.	28.	8.	19:15
23	113.	134.	0.	0.	113.	134.	6841.	8072.	60.3	369.	1.	22.	6.	19:30
TOTAL	8118.	9579.	0.	0.	8118.	9579.	251432.	296689.	31.0	14260.	58.	755.	198.	

Appendix D

FREQ Model Freeway Condition Diagrams

Legend

GRAPHICAL DISPLAY OF FREEWAY CONDITIONS

The output is displayed for each subsection (numbered across the top of the data area) and for each time slice (numbered down the left of the data area).

The colors that are used for the data displayed are defined as follows:

GREEN Free-flow conditions

BLUE Near capacity conditions where .9 <= V/C < 1.00. Might indicate a "hidden" bottleneck.

YELLOW Bottleneck (V/C = 1.00) located immediately downstream of the queue and a transition area between free-flow conditions and congested conditions

RED Congested flow conditions

WARNING The model assumes that there is no congestion when the simulation begins. If you have congestion in the first time slice, the simulation results may not match your field data. The graph will be drawn as if the time slice prior to your first time slice has no congestion.

Northbound and Southbound Freeway Sections

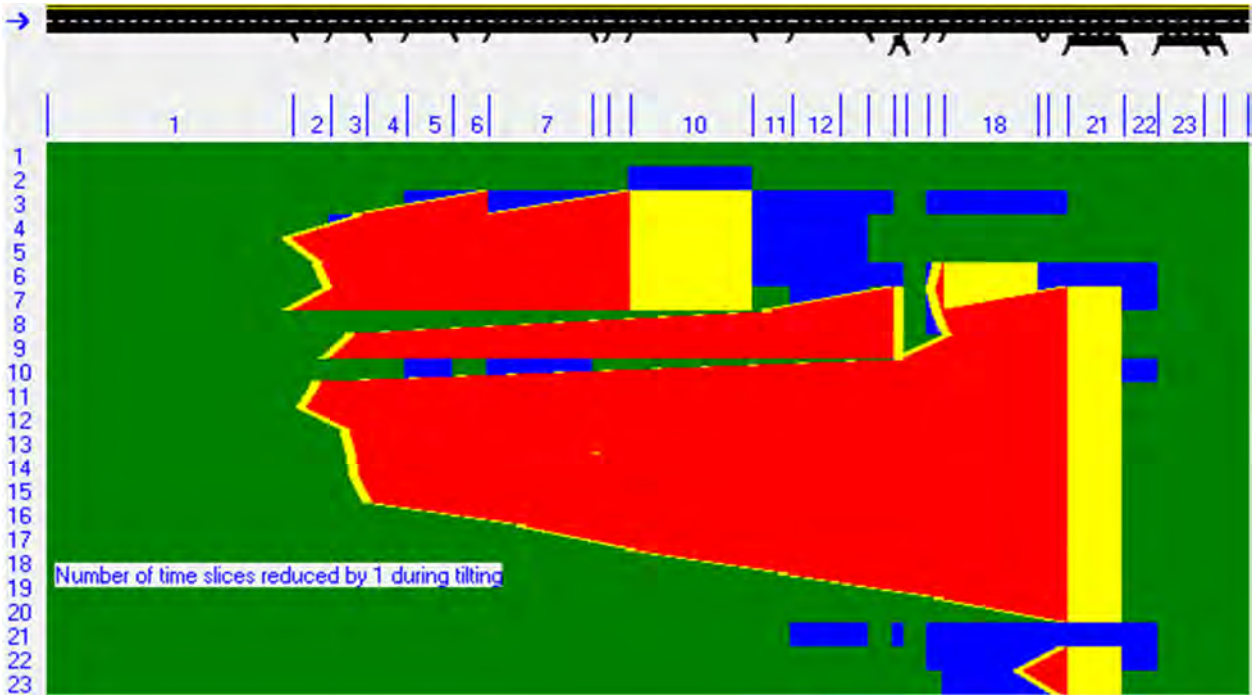
NB Section Number	Description	SB Section Number	Description
1	S/O Larkin Valley Rd Off	1	N/O Ocean St On
2	Larkin Valley Rd Off - On	2	Ocean St On - SR 17 On
3	Larkin Valley Rd On - Freedom Blvd Off	3	SR 17 On - Fairmount Ave Off
4	Freedom Blvd Off - On	4	Fairmount Ave Off - On
5	Freedom Blvd On - Rio Del Mar Blvd Off	5	Fairmount Ave On - Morrissey Blvd On
6	Rio Del Mar Blvd Off - On	6	Morrissey Blvd On - Soquel Dr Off
7	Rio Del Mar Blvd On - State Park Dr Off	7	Soquel Dr Off - On
8	State Park Dr Off - NB State Park Dr On	8	Soquel Dr On - 41st Ave Off
9	NB State Park Dr On - SB State Park Dr On	9	41st Ave Off - SB 41st Ave On
10	SB State Park Dr On - Park Ave Off	10	SB 41st Ave On - NB 41st Ave On
11	Park Ave Off - On	11	NB 41st Ave On - Bay Ave/Porter St Off
12	Park Ave On - Bay Ave/Porter St Off (merge area)	12	Bay Ave/Porter St Off - On
13	Park Ave On - Bay Ave/Porter St Off (diverge area)	13	Bay Ave/Porter St On - Park Ave Off (merge area)
14	Bay Ave/Porter St Off - On	14	Bay Ave/Porter St On - Park Ave Off (diverge area)
15	Bay Ave/Porter St On - 41st Ave Off	15	Park Ave Off - On
16	41st Ave Off - NB 41st Ave On	16	Park Ave On - State Park Dr Off
17	NB 41st Ave On - SB 41st Ave On	17	State Park Dr Off - SB State Park Dr On
18	SB 41st Ave On - Soquel Dr Off	18	SB State Park Dr On - NB State Park Dr On
19	Soquel Dr Off - NB Soquel Dr On	19	NB State Park Dr On - Rio Del Mar Blvd Off
20	NB Soquel Dr On - SB Soquel Dr On	20	Rio Del Mar Blvd Off - On
21	SB Soquel Dr On - Morrissey Blvd Off	21	Rio Del Mar Blvd On - Freedom Blvd Off
22	Morrissey Blvd Off - On	22	Freedom Blvd Off - On
23	Morrissey Blvd On - Emeline Ave Off	23	Freedom Blvd On - Larkin Valley Rd Off
24	Emeline Ave Off - SR 17 Off	24	Larkin Valley Rd Off - On
25	SR 17 Off - Fishhook	25	S/O Larkin Valley Rd On

AM and PM Timeslices

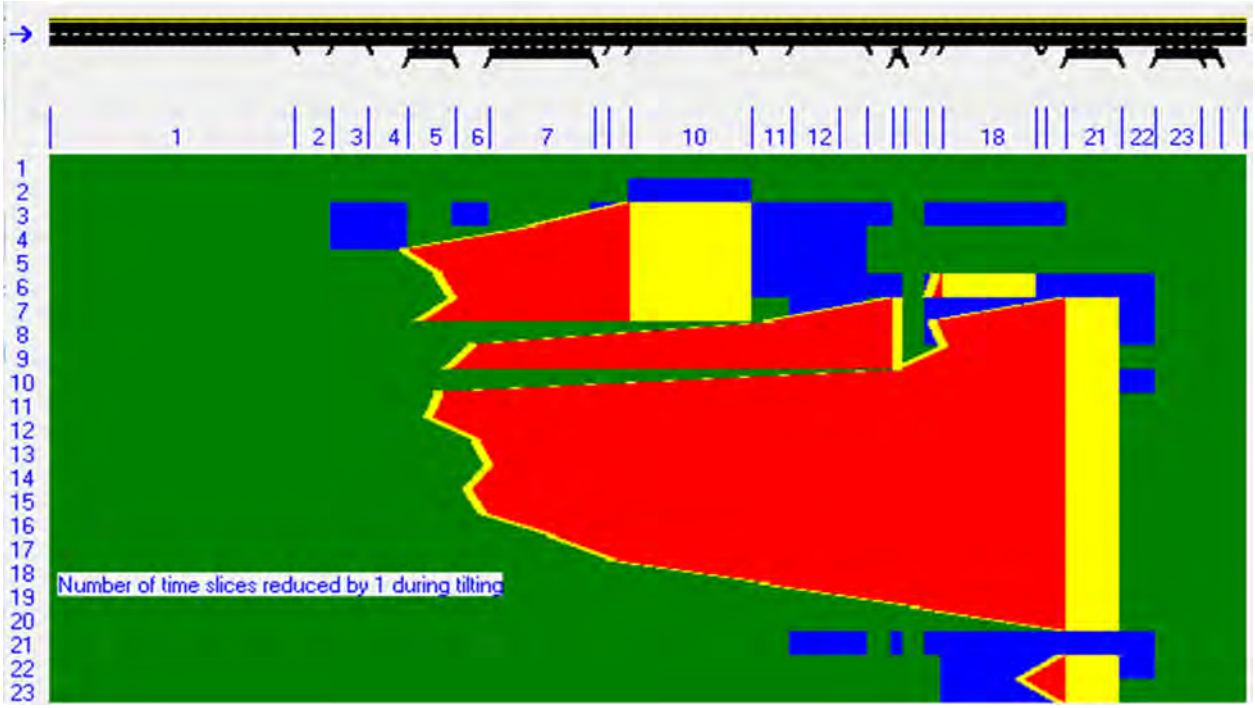
AM Timeslice Number	Description	PM Timeslice Number	Description
1	6:00 AM - 6:15 AM	1	2:00 PM - 2:15 PM
2	6:15 AM - 6:30 AM	2	2:15 PM - 2:30 PM
3	6:30 AM - 6:30 AM	3	2:30 PM - 2:45 PM
4	6:45 AM - 7:00 AM	4	2:45 PM - 3:00 PM
5	7:00 AM - 7:15 AM	5	3:00 PM - 3:15 PM
6	7:15 AM - 7:30 AM	6	3:15 PM - 3:30 PM
7	7:30 AM - 7:30 AM	7	3:30 PM - 3:45 PM
8	7:45 AM - 8:00 AM	8	3:45 PM - 4:00 PM
9	8:00 AM - 8:15 AM	9	4:00 PM - 4:15 PM
10	8:15 AM - 8:30 AM	10	4:15 PM - 4:30 PM
11	8:30 AM - 8:30 AM	11	4:30 PM - 4:45 PM
12	8:45 AM - 9:00 AM	12	4:45 PM - 5:00 PM
13	9:00 AM - 9:15 AM	13	5:00 PM - 5:15 PM
14	9:15 AM - 9:30 AM	14	5:15 PM - 5:30 PM
15	9:30 AM - 9:30 AM	15	5:30 PM - 5:45 PM
16	9:45 AM - 10:00 AM	16	5:45 PM - 6:00 PM
17	10:00 AM - 10:15 AM	17	6:00 PM - 6:15 PM
18	10:15 AM - 10:30 AM	18	6:15 PM - 6:30 PM
19	10:30 AM - 10:30 AM	19	6:30 PM - 6:45 PM
20	10:45 AM - 11:00 AM	20	6:45 PM - 7:00 PM
21	11:00 AM - 11:15 AM	21	7:00 PM - 7:15 PM
22	11:15 AM - 11:30 AM	22	7:15 PM - 7:30 PM
23	11:30 AM - 11:30 AM	23	7:30 PM - 7:45 PM
24	11:45 AM - 12:00 PM	24	7:45 PM - 8:00 PM

Northbound AM

Existing (2019) No Build

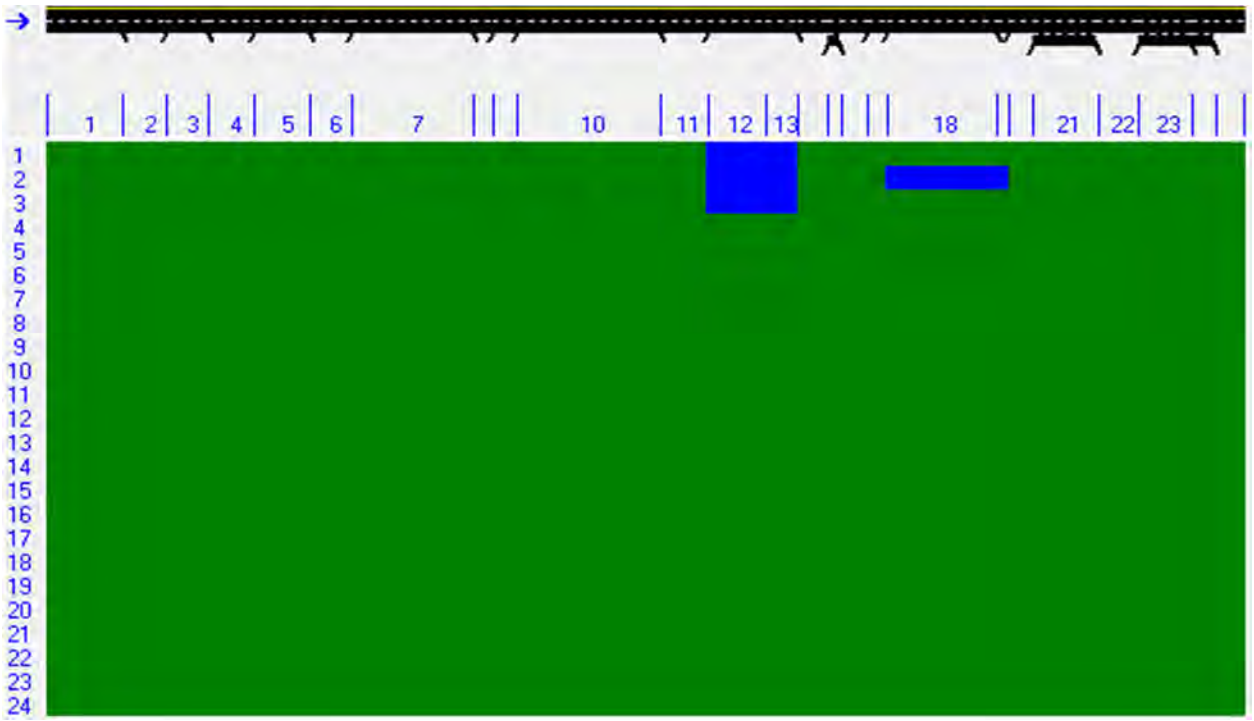


Existing Build

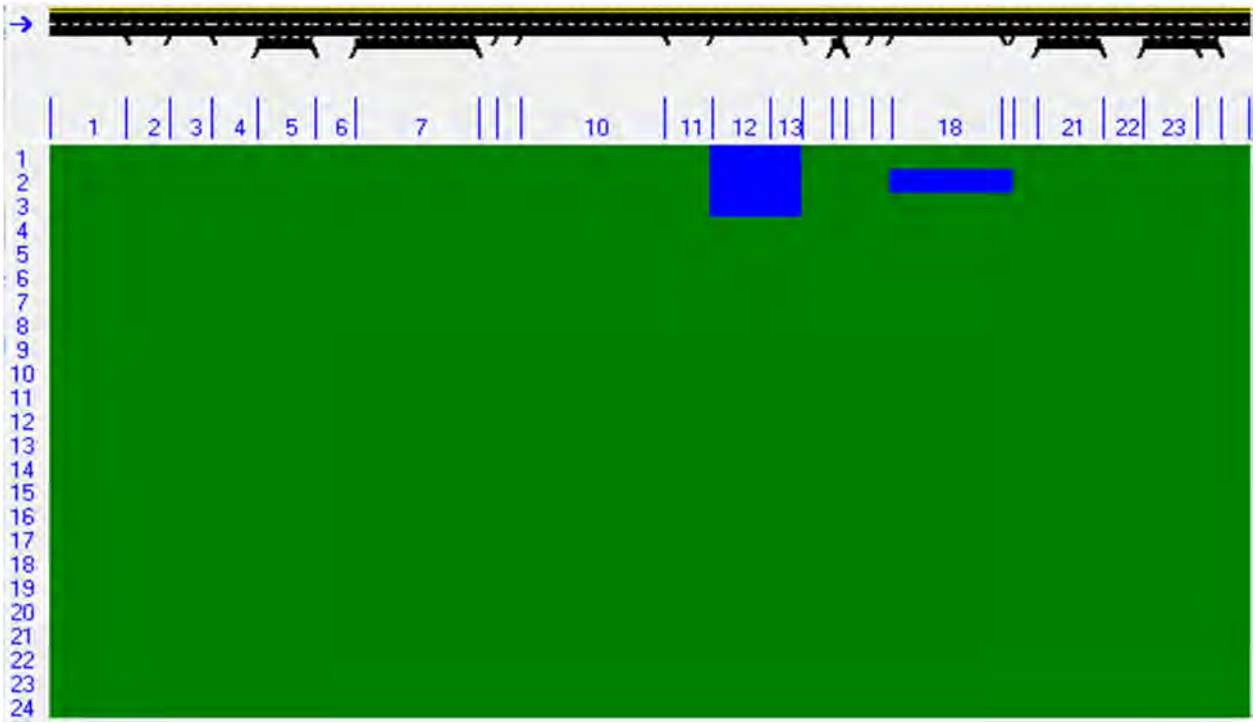


Northbound PM

Existing (2019) No Build

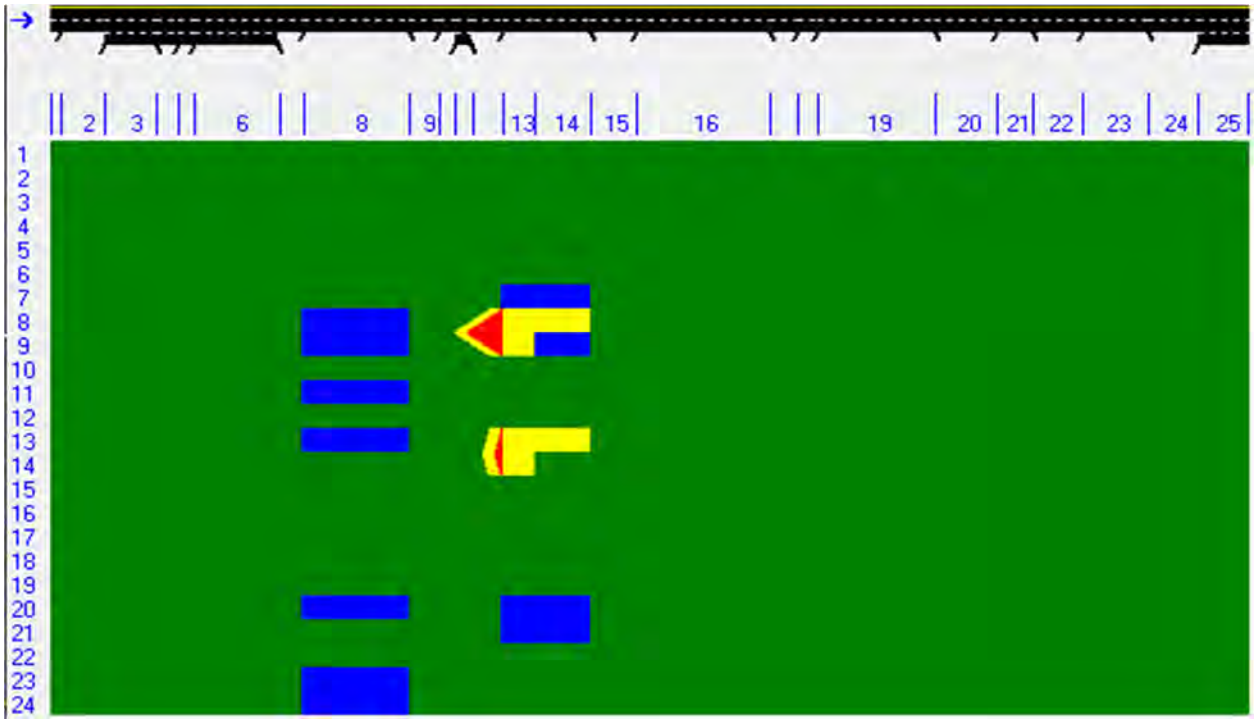


Existing Build

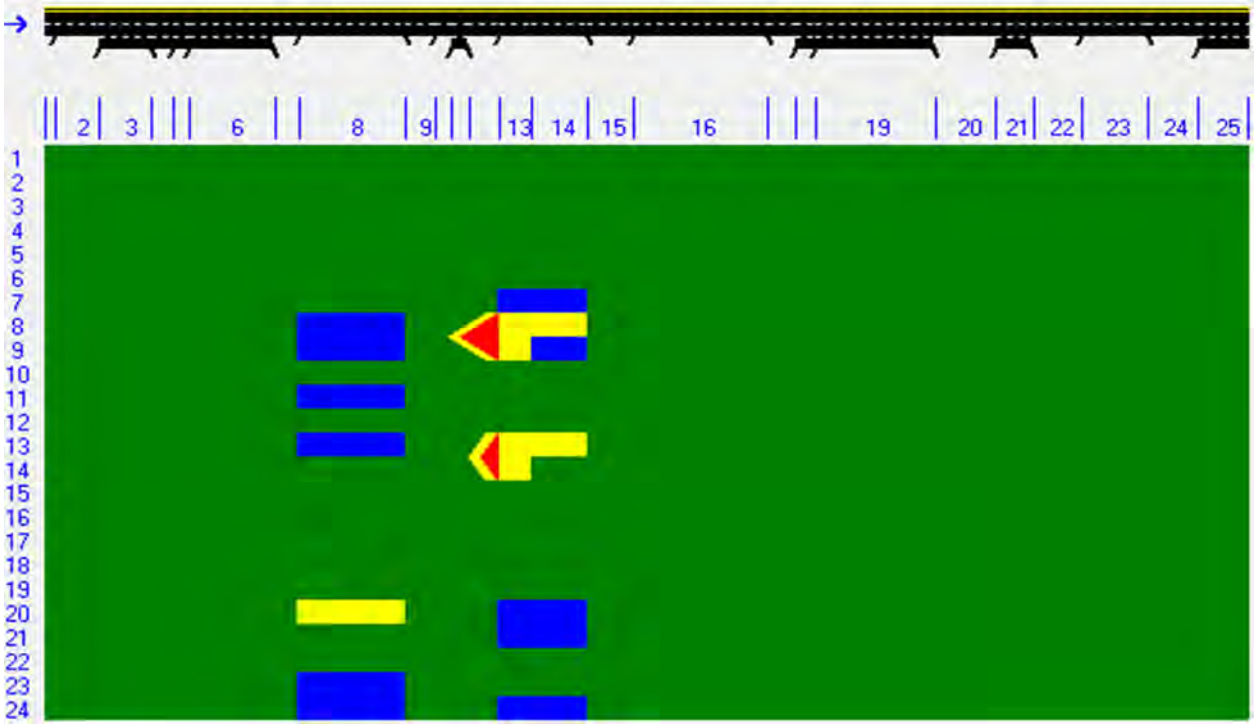


Southbound AM

Existing (2019) No Build

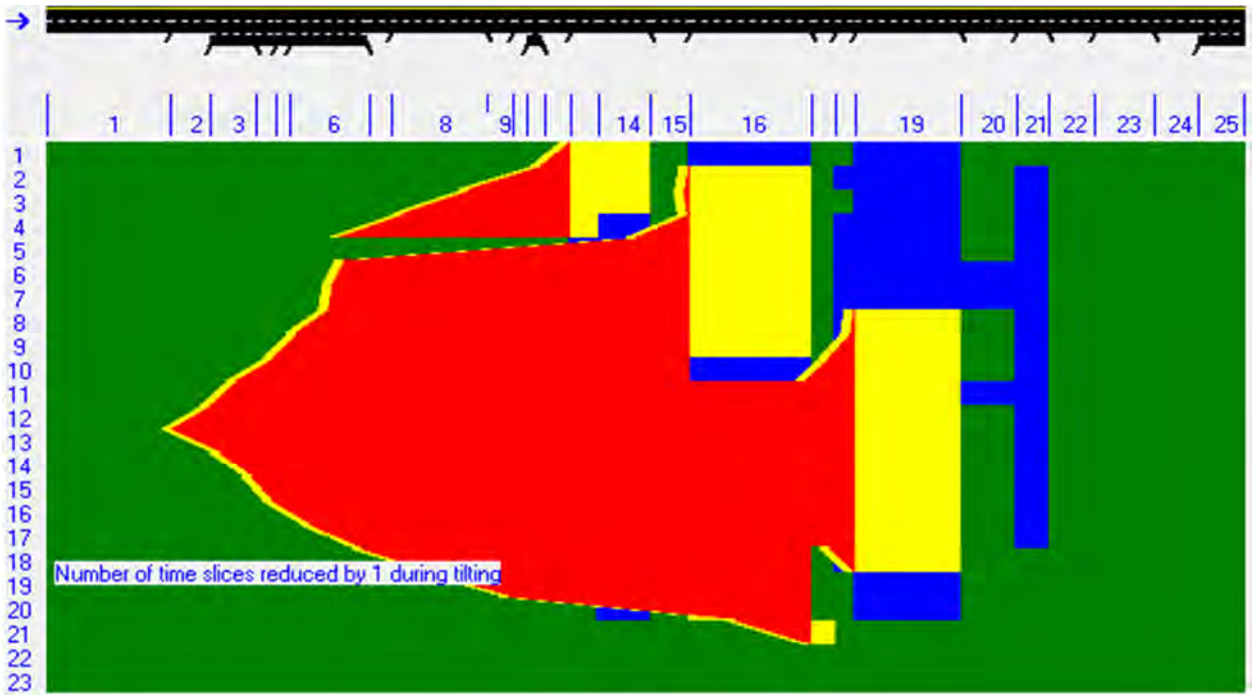


Existing Build

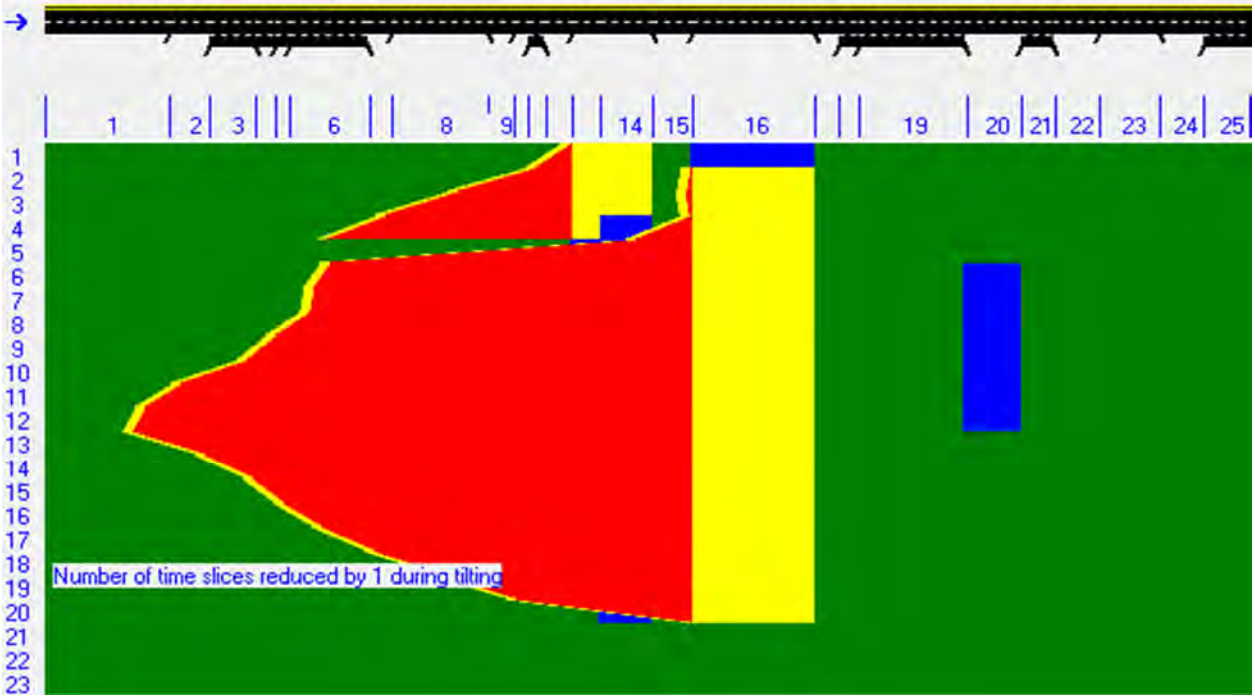


Southbound PM

Existing (2019) No Build

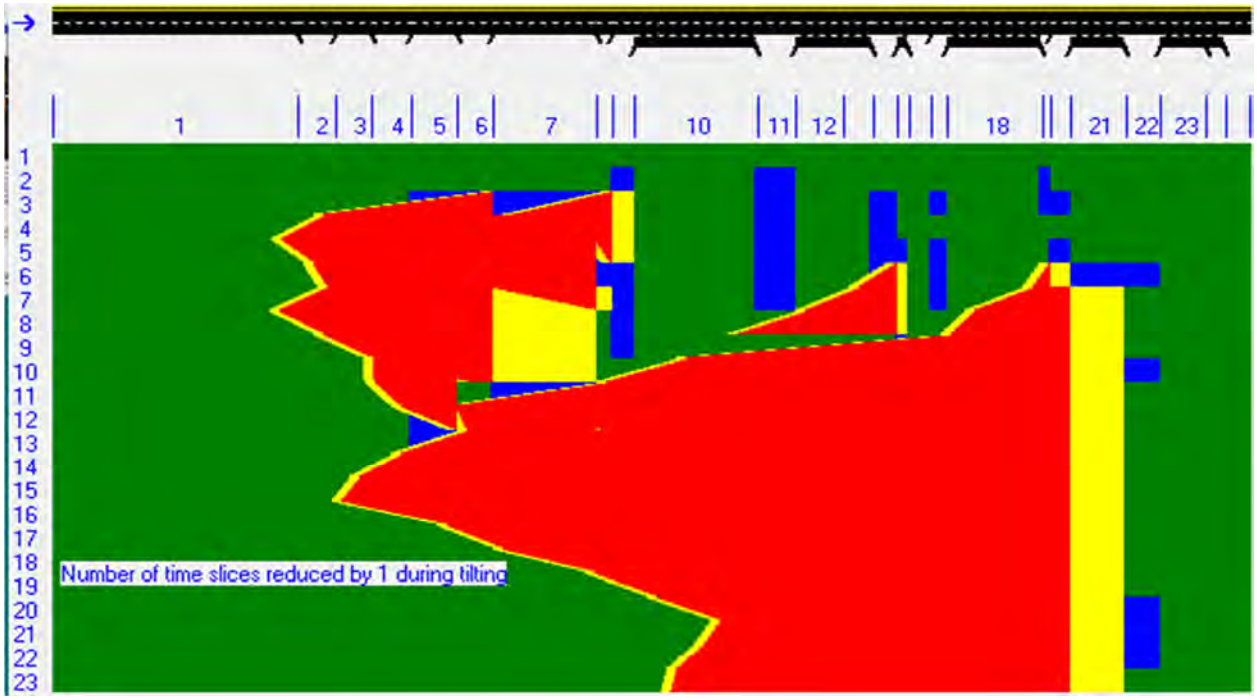


Existing (2019) Build

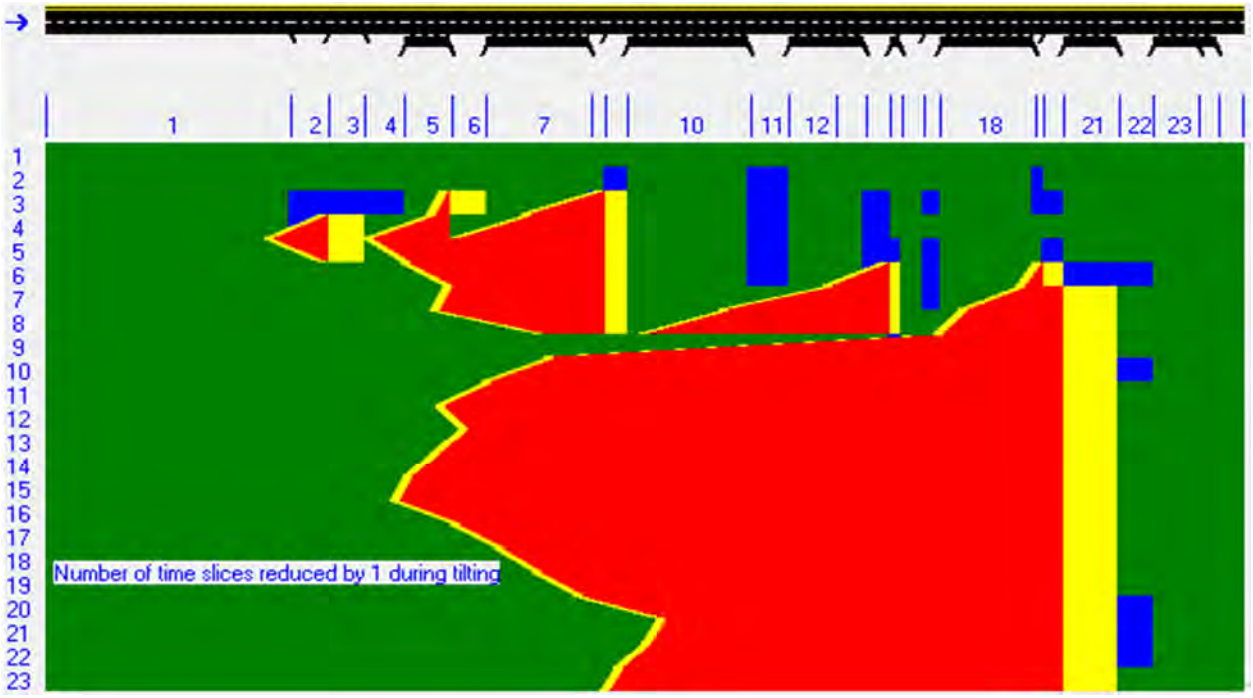


Northbound AM

Opening Year (2025) No Build

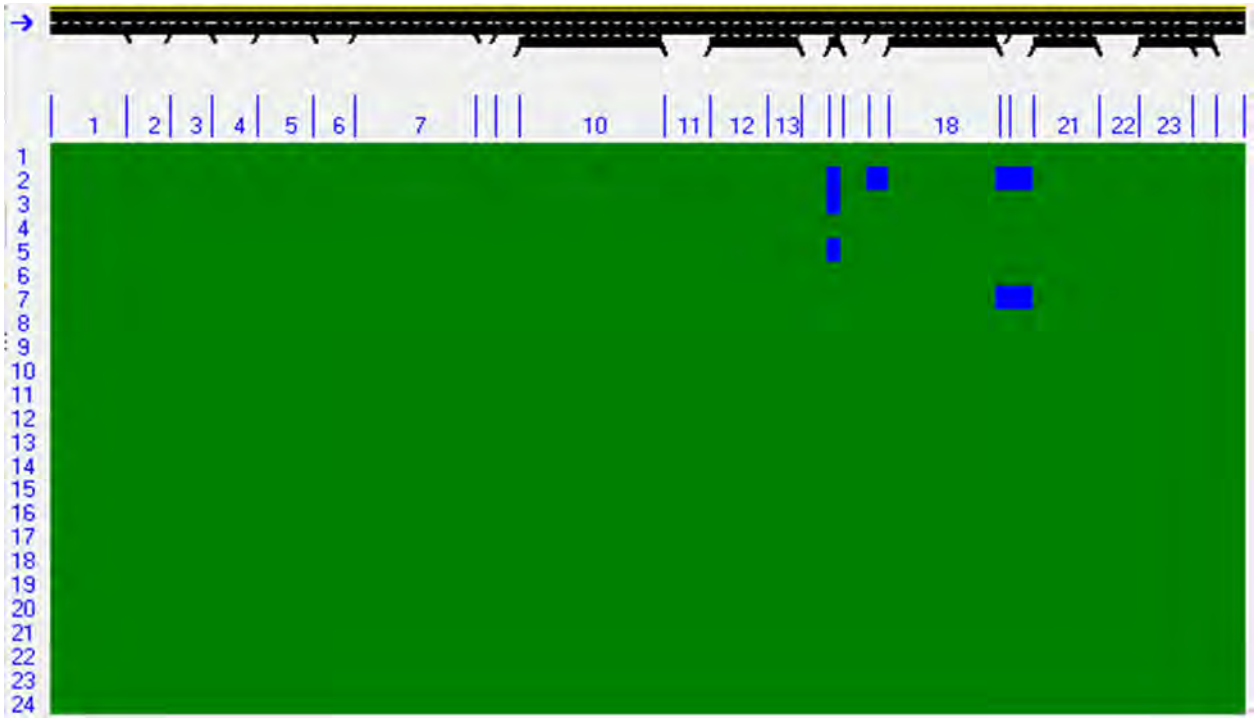


Opening Year (2025) Build

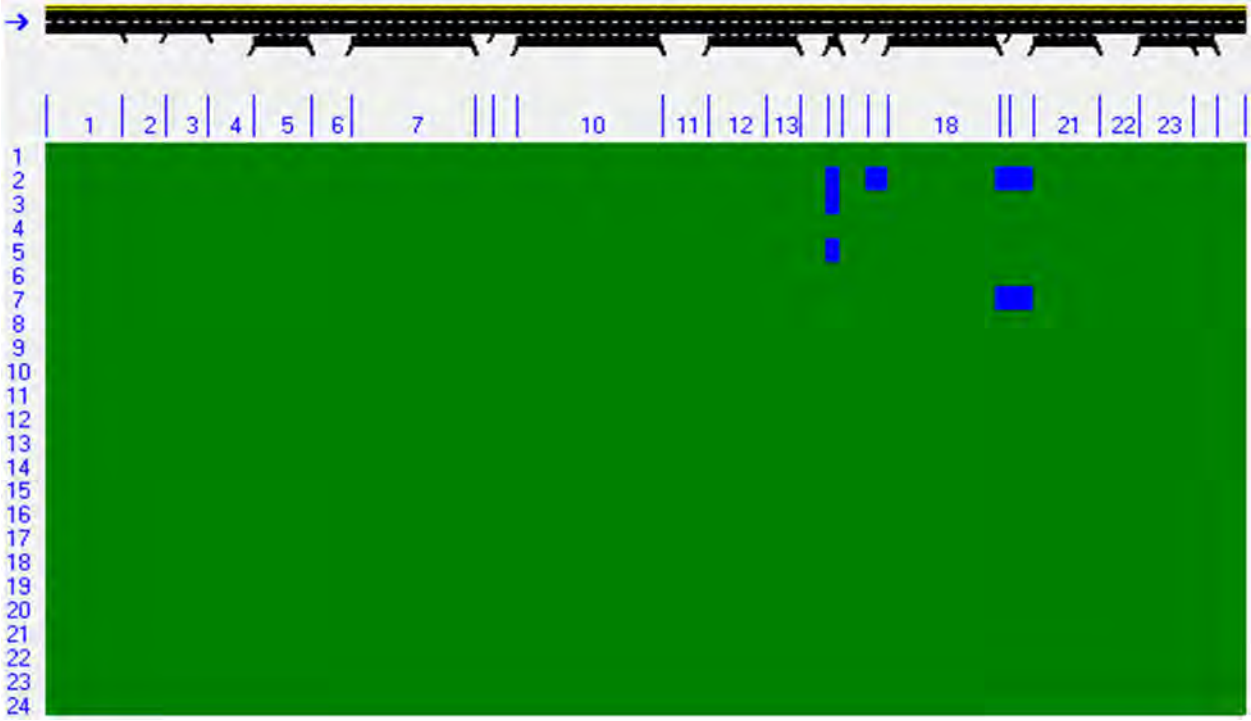


Northbound PM

Opening Year (2025) No Build

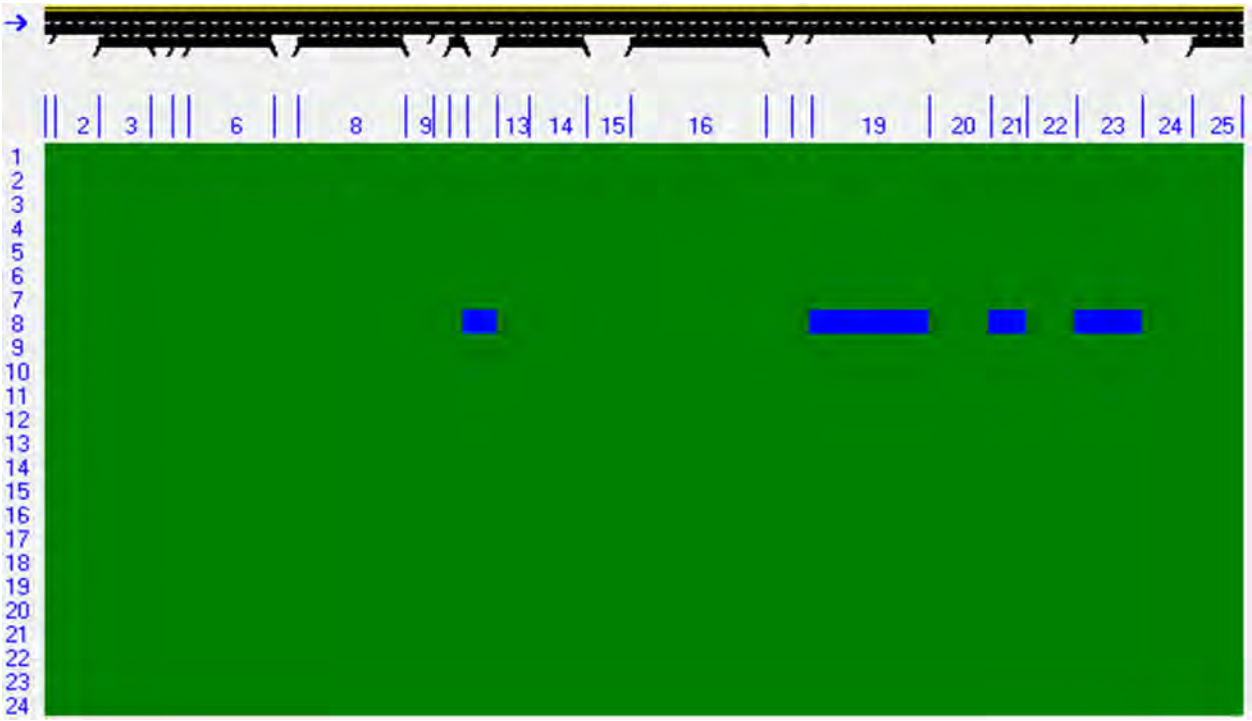


Opening Year (2025) Build

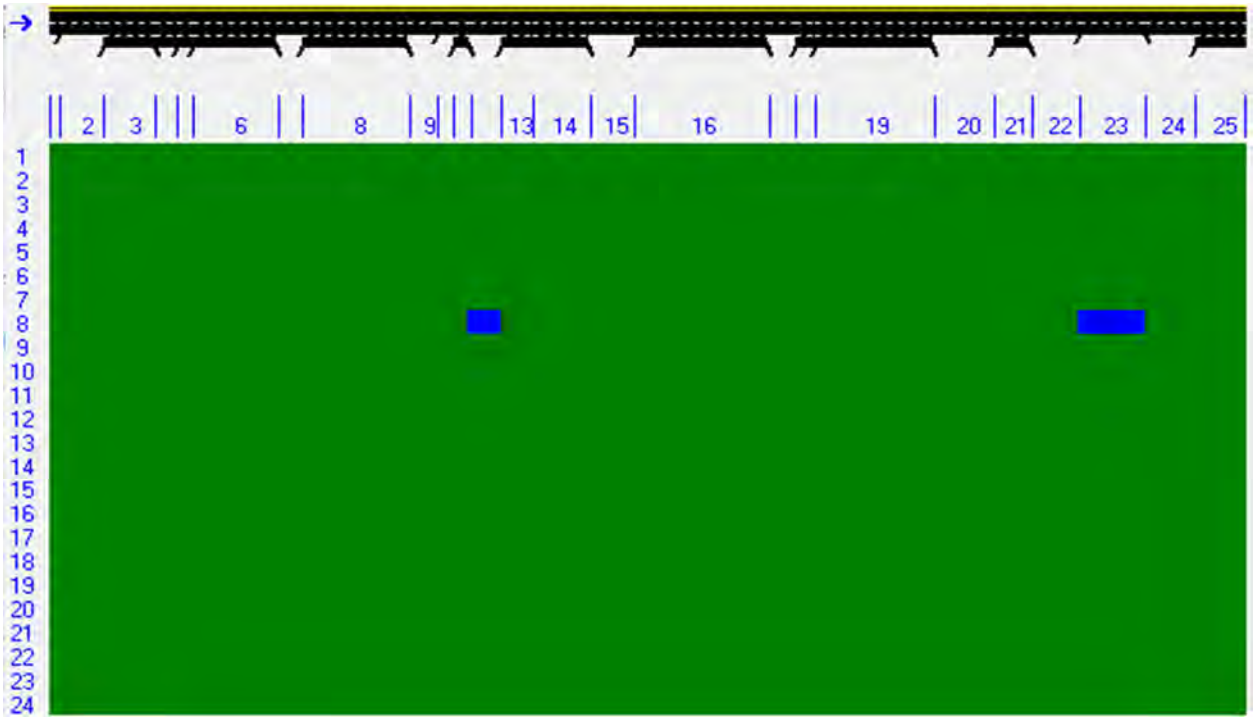


Southbound AM

Opening Year (2025) No Build

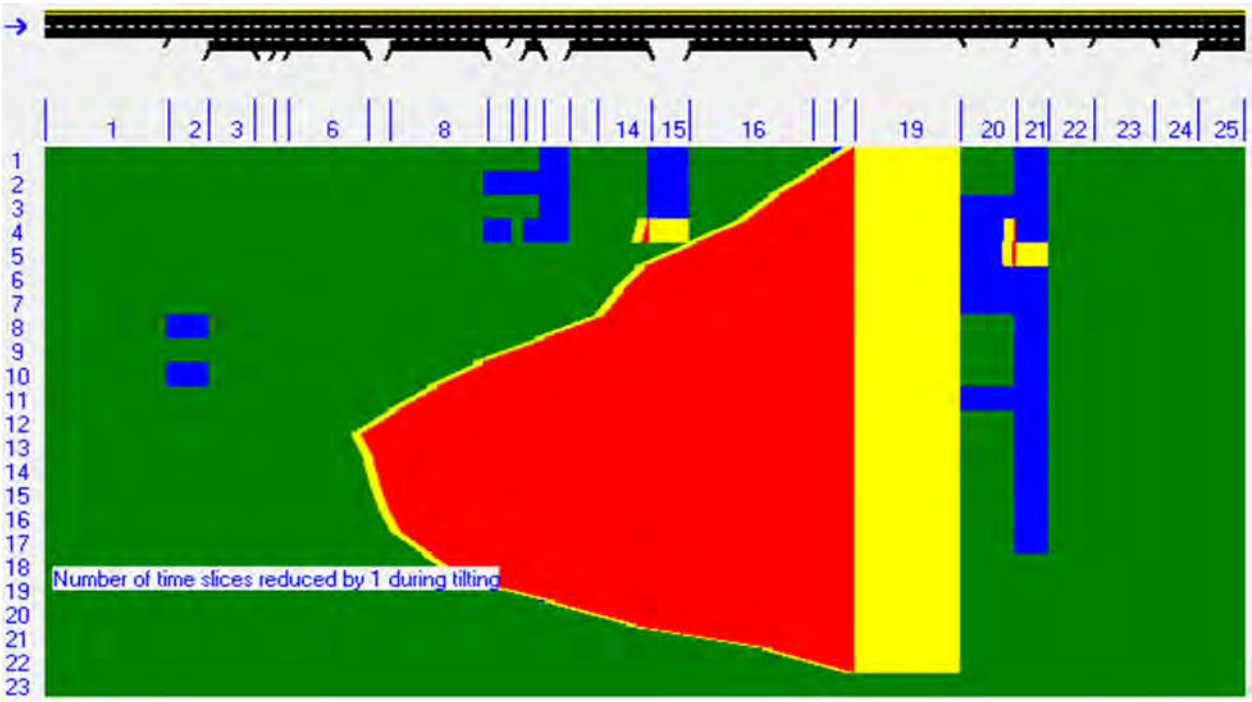


Opening Year (2025) Build

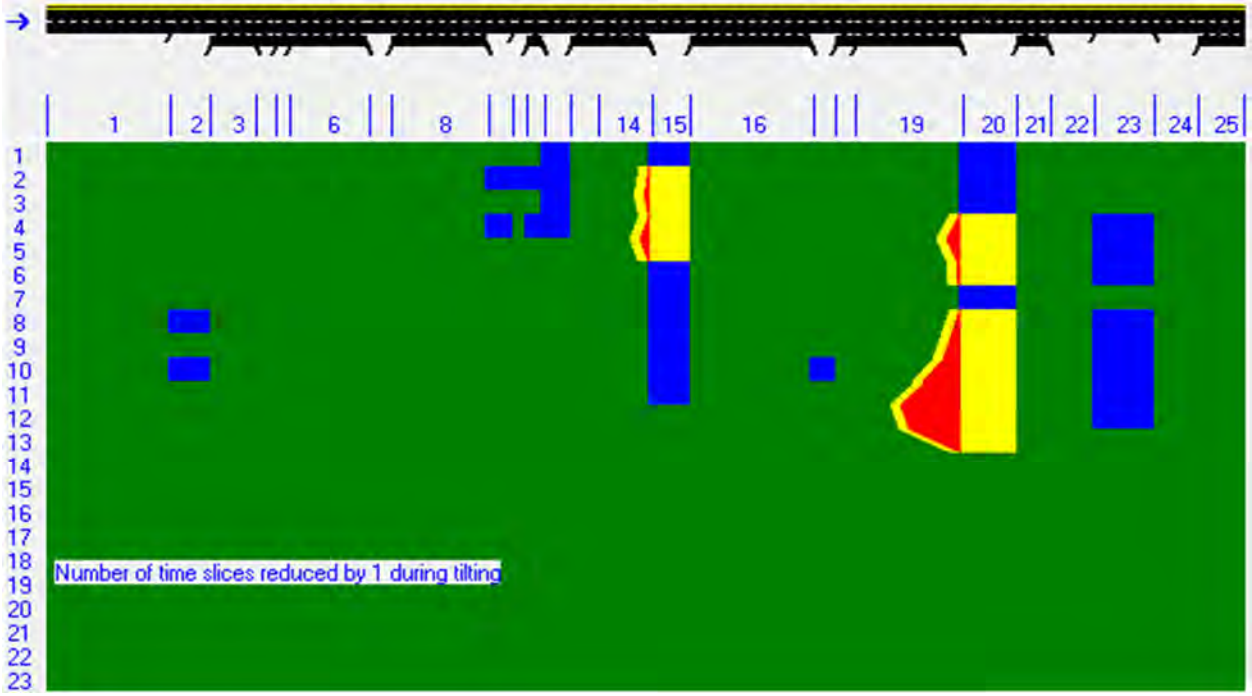


Southbound PM

Opening Year (2025) No Build

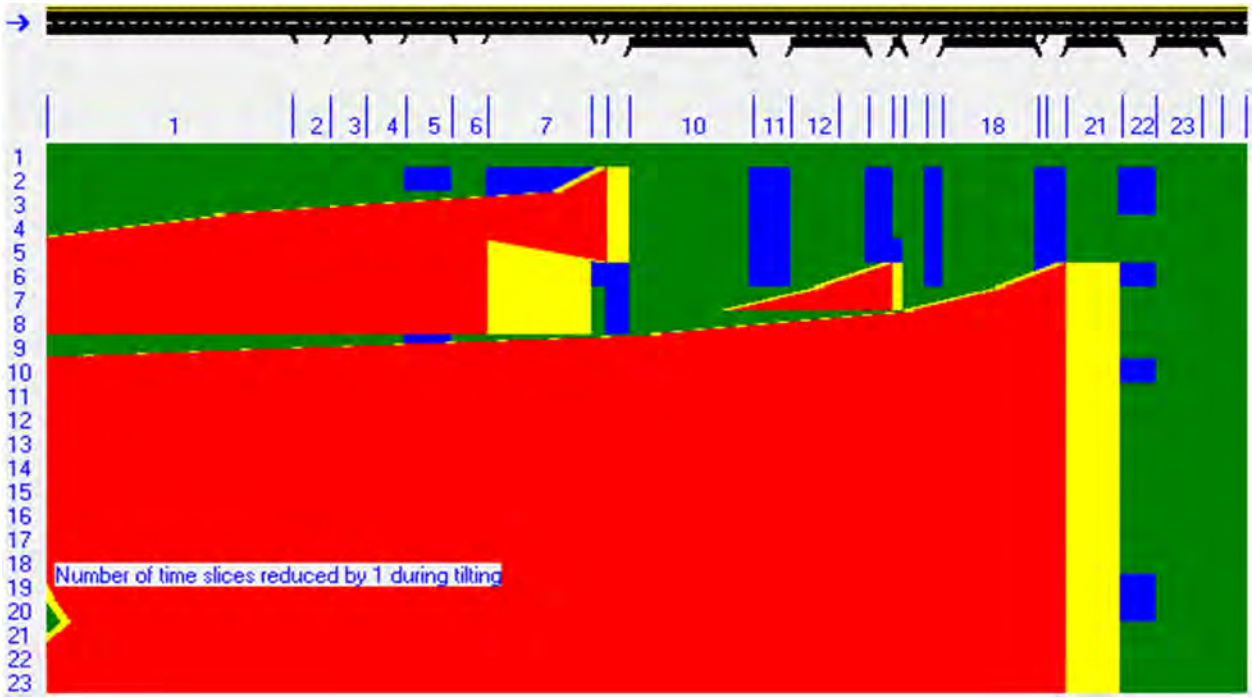


Opening Year (2025) Build

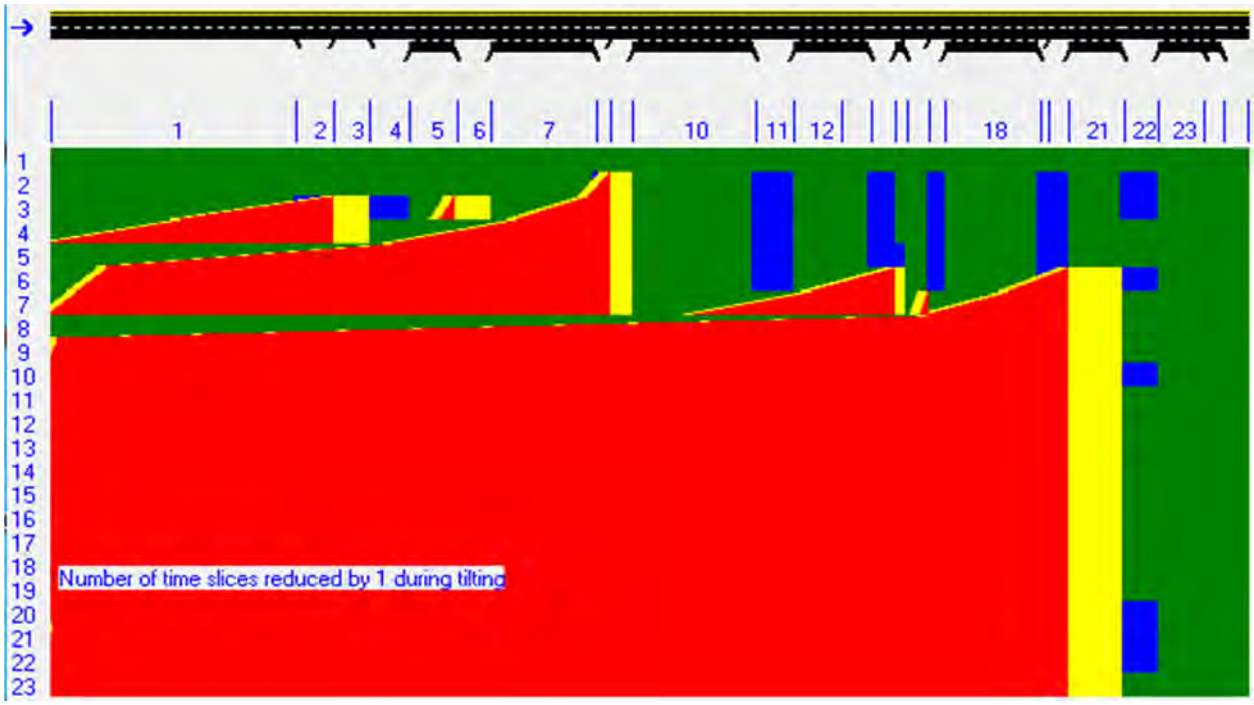


Northbound AM

Horizon Year (2045) No Build

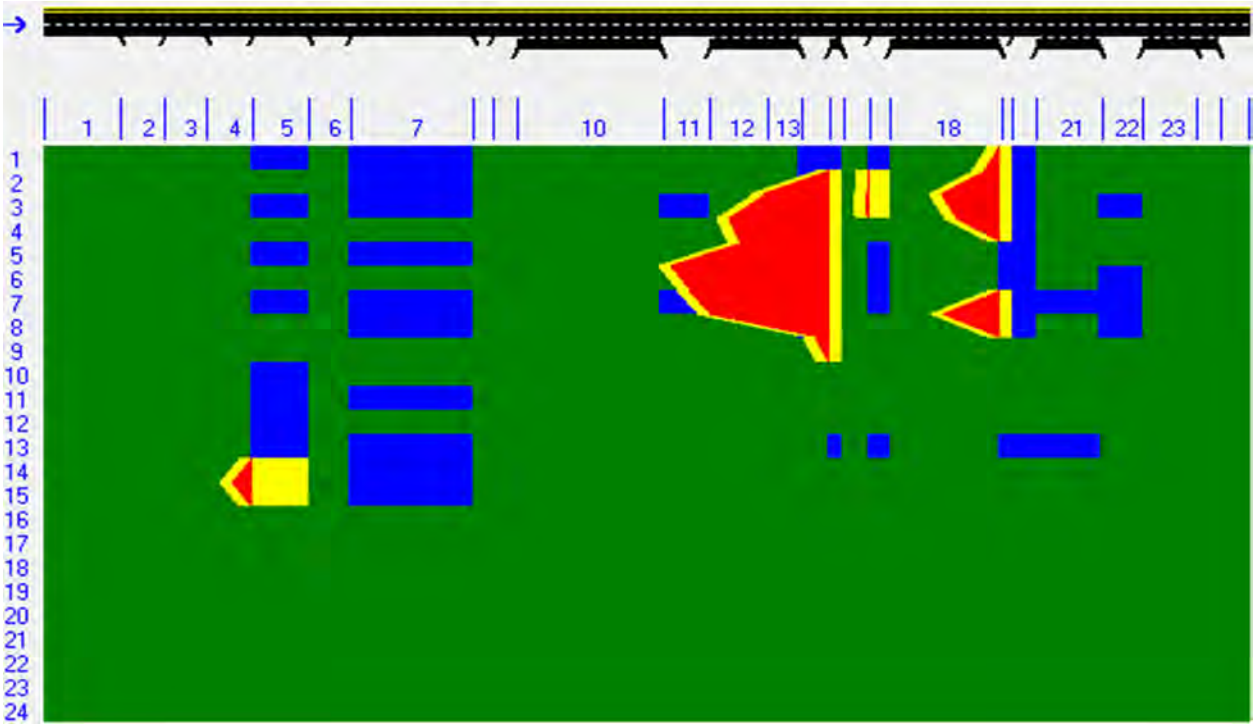


Horizon Year (2045) Build

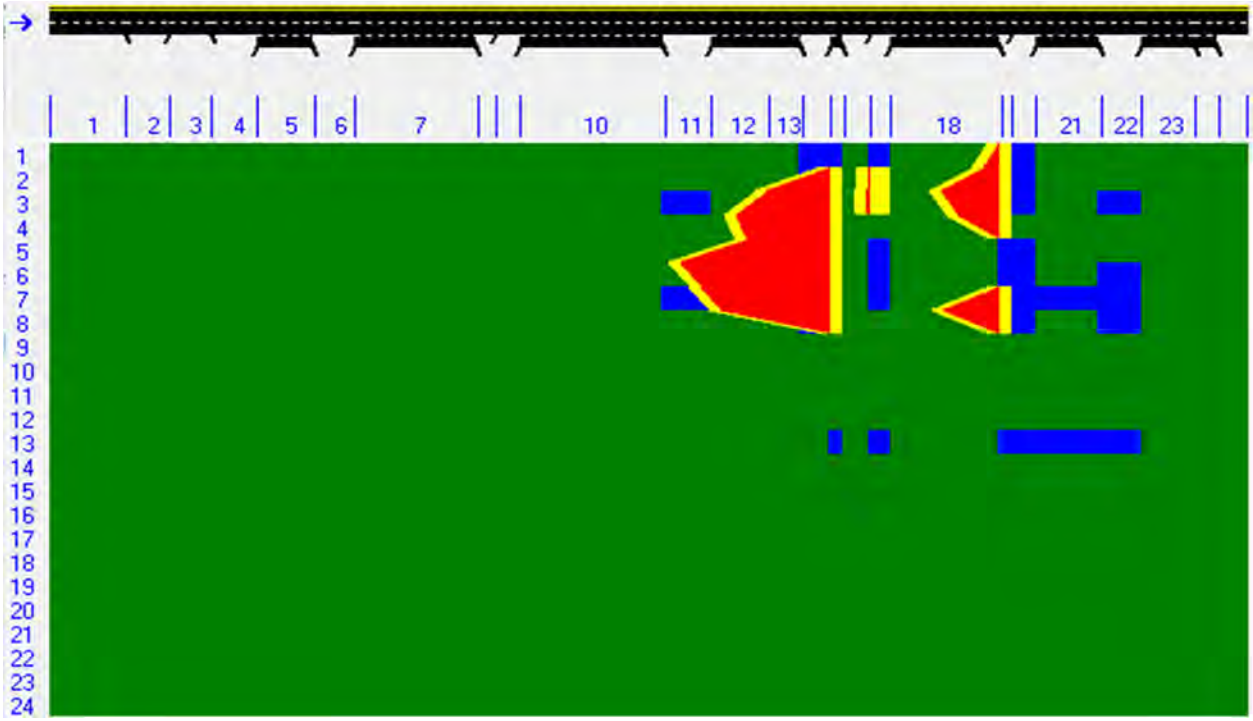


Northbound PM

Horizon Year (2045) No Build

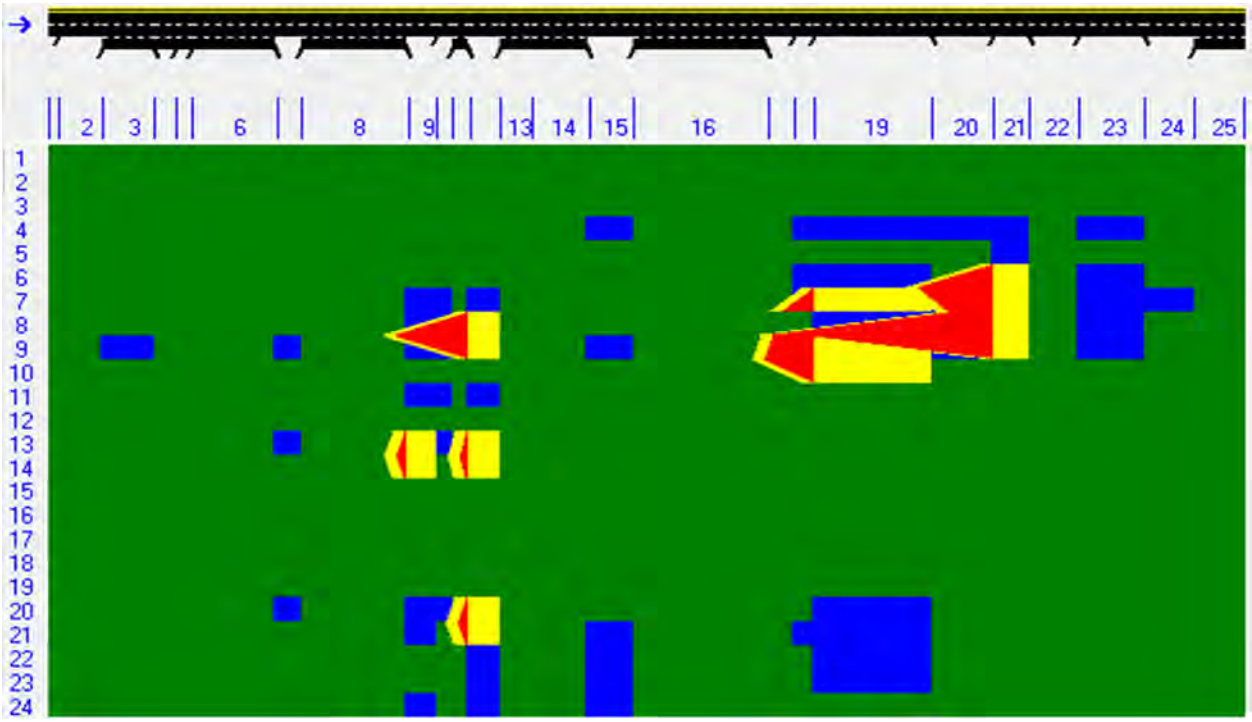


Horizon Year (2045) Build

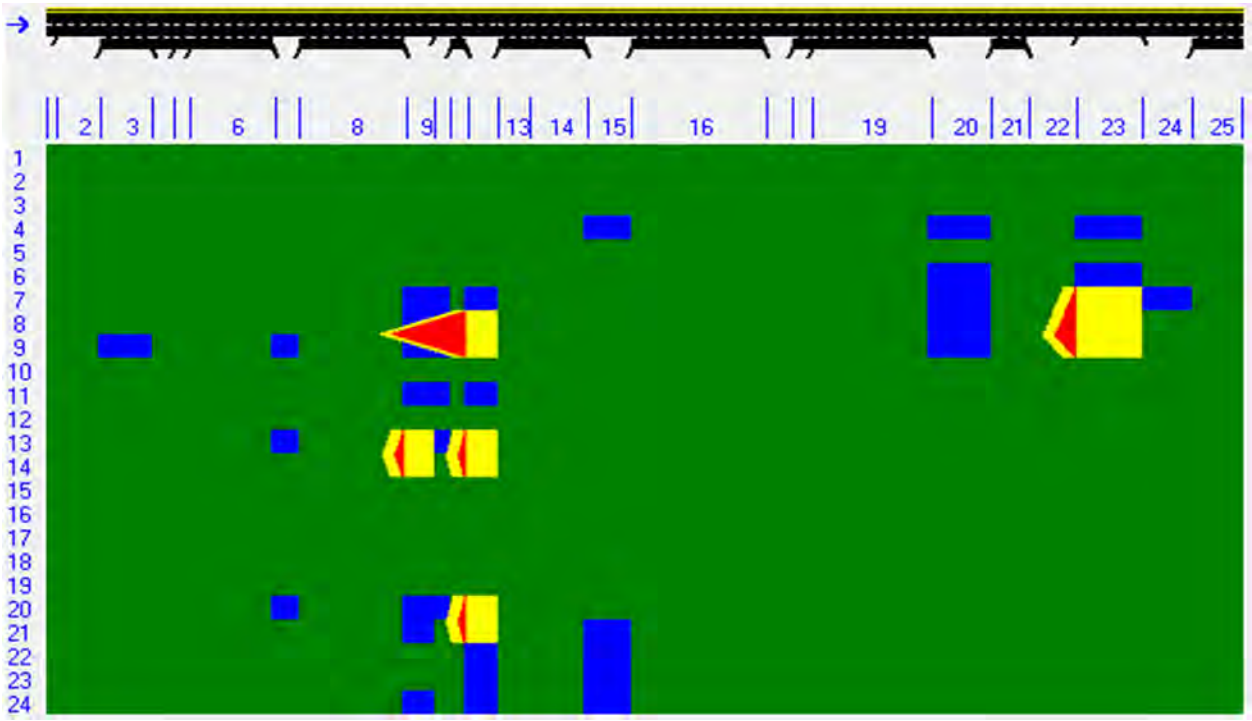


Southbound AM

Horizon Year (2045) No Build

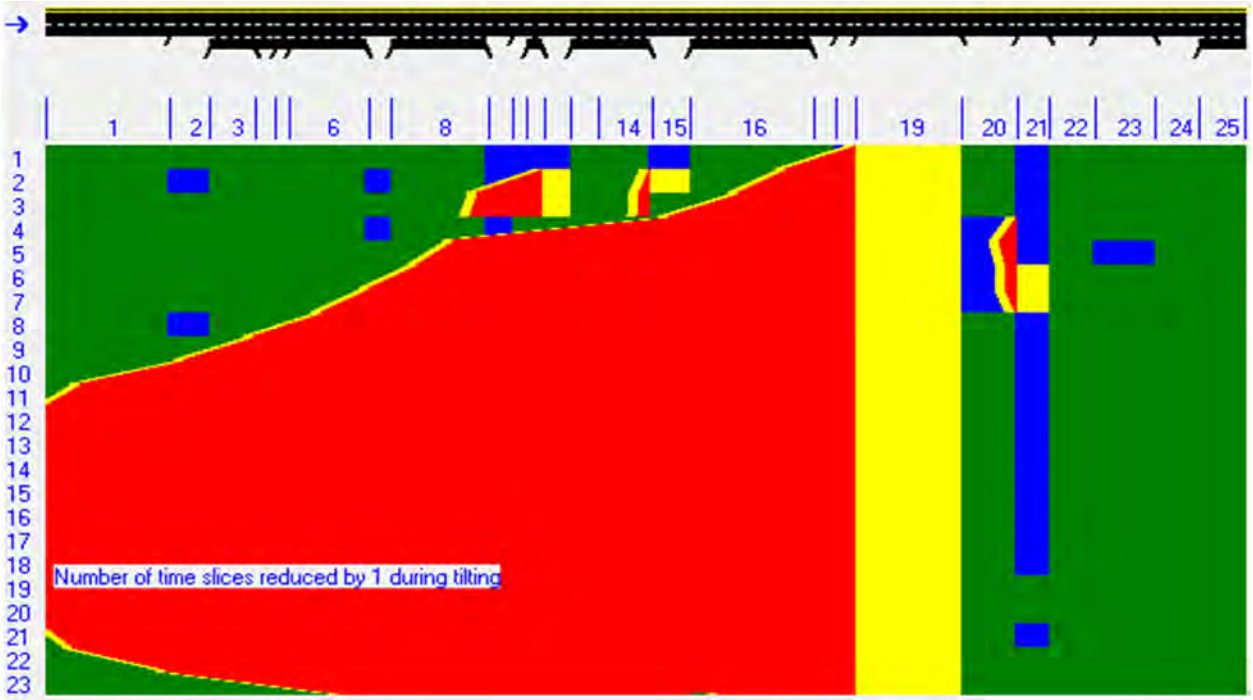


Horizon Year (2045) Build

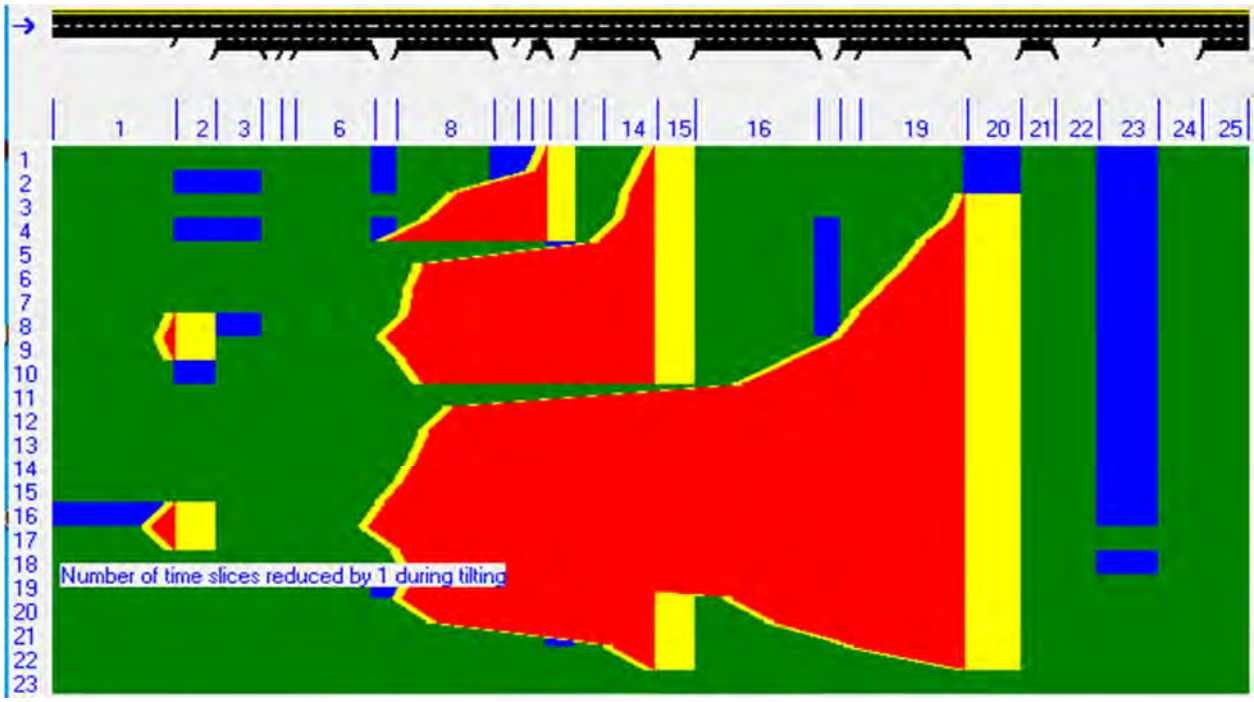


Southbound PM

Horizon Year (2045) No Build



Horizon Year (2045) Build



Appendix E

Freeway Operational Analysis – Detailed Results

Table E-1 Existing (2019) FREQ Analysis Results by Peak Period in Northbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Existing (2019)								Existing (2019) plus Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
S/O Larkin Valley Rd Off	3,400	2,472	20.0	C	62	2,073	16.7	B	62	2,469	20.0	C	62	2,084	16.8	B	62
Larkin Valley Rd Off - On	1,970	2,347	29.1	D	40	1,968	15.9	B	62	2,371	19.3	C	62	1,979	16.0	B	62
Larkin Valley Rd On - Freedom Blvd Off	1,830	2,731	49.5	F	28	2,232	18.0	C	62	2,754	22.6	C	61	2,244	18.1	C	62
Freedom Blvd Off - On	2,010	2,593	65.0	F	20	2,088	16.8	B	62	2,613	21.3	C	62	2,100	16.9	B	62
Freedom Blvd On - Rio Del Mar Blvd Off	2,445	3,304	45.8	F	37	2,591	21.0	C	62	3,307	23.2	C	48	2,609	14.0	B	62
Rio Del Mar Blvd Off - On	1,890	3,008	56.2	F	28	2,209	17.8	B	62	3,016	44.1	E	35	2,225	18.0	B	62
Rio Del Mar Blvd On - State Park Dr Off	5,320	3,558	46.3	F	39	2,630	21.3	C	62	3,558	59.6	F	21	2,650	14.2	B	62
State Park Dr Off - NB State Park Dr On	880	3,027	53.2	F	29	2,145	17.3	B	62	3,021	54.9	F	28	2,163	17.4	B	62
NB State Park Dr On - SB State Park Dr On	1,125	3,198	50.3	F	32	2,298	18.5	C	62	3,214	51.4	F	32	2,316	18.7	C	62
SB State Park Dr On - Park Ave Off	6,320	3,675	46.4	F	40	2,702	21.9	C	62	3,670	46.8	F	39	2,719	22.1	C	62
Corridor Limits: Project Limits + Adj. & U/S Links	**27,190**	**3,142**	**44.4**	**E**	**35**	**2,400**	**19.4**	**C**	**62**	**3,146**	**38.6**	**E**	**35**	**2,416**	**17.5**	**B**	**62**

AM Peak Period 6 am - 12 pm
PM Peak Period 2 pm - 8 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-2 Existing (2019) FREQ Analysis Results by Peak Period in Southbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Existing (2019)								Existing (2019) plus Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
N/O Ocean St On	500	1,482	14.8	B	50	2,251	22.5	C	50	1,501	15.0	B	50	2,264	23.7	C	48
Ocean St On - SR 17 On	2,070	2,023	20.2	C	50	2,643	28.1	D	47	2,042	20.4	C	50	2,665	33.1	D	41
SR 17 On - Fairmount Ave Off	2,300	3,354	20.3	C	55	4,012	33.6	D	40	3,372	20.4	C	55	4,036	36.4	E	38
Fairmount Ave Off - On	1,020	3,095	16.6	B	62	3,594	42.3	E	28	3,114	16.7	B	62	3,619	44.4	E	28
Fairmount Ave On - Morrissey Blvd On	710	3,278	17.6	B	62	3,693	47.6	F	26	3,296	17.7	B	62	3,719	49.3	F	25
Morrissey Blvd On - Soquel Dr Off	3,820	3,594	19.3	C	62	3,914	60.7	F	21	3,610	19.4	C	62	3,925	62.9	F	21
Soquel Dr Off - On	1,220	2,837	22.9	C	62	2,863	82.0	F	17	2,851	23.1	C	62	2,878	81.0	F	17
Soquel Dr On - 41st Ave Off	4,810	3,328	28.6	D	59	3,285	84.4	F	19	3,343	28.9	D	58	3,313	83.7	F	19
41st Ave Off - SB 41st Ave On	1,370	2,715	22.0	C	62	2,600	85.5	F	15	2,730	22.2	C	62	2,612	84.4	F	15
SB 41st Ave On - NB 41st Ave On	660	2,911	23.6	C	62	2,866	93.7	F	15	2,927	23.7	C	62	2,892	93.0	F	15
NB 41st Ave On - Bay Ave/Porter St Off	790	3,452	18.6	C	62	3,799	74.5	F	17	3,468	18.7	C	62	3,820	74.0	F	17
Bay Ave/Porter St Off - Bay Ave/Porter St On	1,460	2,866	26.3	D	56	3,057	77.1	F	20	2,882	27.2	D	54	3,082	76.5	F	20
Bay Ave/Porter St On - Park Ave Off (merge area)	1,400	3,205	27.5	D	59	3,600	50.8	F	36	3,222	27.7	D	59	3,625	50.0	F	37
Bay Ave/Porter St On - Park Ave Off (diverge area)	2,600	3,205	27.5	D	59	3,615	51.5	F	35	3,222	27.7	D	59	3,638	50.6	F	36
Park Ave Off - Park Ave On	2,010	2,577	20.8	C	62	3,133	59.6	F	27	2,594	20.9	C	62	3,169	59.2	F	27
Park Ave On - State Park Dr Off	6,120	2,854	23.3	C	61	3,656	41.9	E	44	2,870	23.5	C	61	3,683	35.1	E	53
State Park Dr Off - SB State Park Dr On	1,240	2,389	19.3	C	62	3,107	47.6	F	33	2,404	19.4	C	62	3,114	25.3	C	62
SB State Park Dr On - NB State Park Dr On	930	2,652	21.4	C	62	3,549	43.9	E	41	2,670	14.4	B	62	3,557	19.1	C	62
NB State Park Dr On - Rio Del Mar Blvd Off	5,330	2,771	22.5	C	62	3,697	34.6	D	54	2,792	15.0	B	62	3,706	19.9	C	62
Rio Del Mar Blvd Off-On	2,830	2,424	19.9	C	61	3,153	27.0	D	59	2,440	20.0	C	61	3,162	27.2	D	58
Rio Del Mar Blvd On - Freedom Blvd Off	1,660	2,759	22.8	C	61	3,594	32.1	D	56	2,778	15.2	B	61	3,606	19.7	C	61
Freedom Blvd Off - On	2,270	2,393	19.3	C	62	2,925	23.6	C	62	2,411	19.5	C	62	2,936	23.7	C	62
Freedom On - Larkin Valley Rd Off	3,040	2,523	20.5	C	62	3,065	25.2	C	61	2,541	20.6	C	62	3,076	25.3	C	61
Corridor Limits: Project Limits + Adj. & U/S Links	**50,160**	**2,873**	**22.4**	C	**60**	**3,391**	**48.6**	F	**32**	**2,890**	**21.3**	**C**	**60**	**3,410**	**45.1**	**F**	**33**

AM Peak Period 6 am - 12 pm
PM Peak Period 2 pm - 8 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-3 Opening Year (2025) FREQ Analysis Results by Peak Period in Northbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Opening Year (2025) No Build								Opening Year (2025) Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
S/O Larkin Valley Rd Off	3,400	2,571	21.1	C	61	2,212	17.8	B	62	2,584	21.1	C	61	2,228	18.0	B	62
Larkin Valley Rd Off - On	1,970	2,481	33.6	D	36	2,103	17.0	B	62	2,495	25.4	C	49	2,118	17.1	B	62
Larkin Valley Rd On - Freedom Blvd Off	1,830	2,842	41.1	E	35	2,371	19.1	C	62	2,882	23.8	C	61	2,386	19.3	C	62
Freedom Blvd Off - On	2,010	2,687	56.3	F	24	2,224	17.9	B	62	2,695	23.1	C	58	2,239	18.1	C	62
Freedom Blvd On - Rio Del Mar Blvd Off	2,445	3,430	44.2	E	40	2,728	22.3	C	61	3,406	30.8	D	38	2,747	14.8	B	62
Rio Del Mar Blvd Off - On	1,890	3,104	56.6	F	28	2,335	18.8	C	62	3,110	45.9	F	34	2,351	19.0	C	62
Rio Del Mar Blvd On - State Park Dr Off	5,320	3,701	45.5	F	41	2,773	22.7	C	61	3,702	62.7	F	20	2,794	15.0	B	62
State Park Dr Off - NB State Park Dr On	880	3,127	48.3	F	32	2,266	18.3	C	62	3,153	61.3	F	25	2,283	18.4	C	62
NB State Park Dr On - SB State Park Dr On	1,125	3,313	46.5	F	35	2,427	19.6	C	62	3,325	54.4	F	30	2,444	19.7	C	62
SB State Park Dr On - Park Ave Off	6,320	3,757	62.1	F	20	2,842	15.3	B	62	3,748	72.2	F	17	2,859	15.4	B	62
Corridor Limits: Project Limits + Adj. & U/S Links	**27,190**	**3,251**	**46.7**	**F**	**30**	**2,537**	**18.8**	**C**	**62**	**3,255**	**47.0**	**F**	**26**	**2,555**	**16.7**	**B**	**62**

AM Peak Period 6 am - 12 pm
PM Peak Period 2 pm - 8 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-4 Opening Year (2025) FREQ Analysis Results by Peak Period in Southbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Opening Year (2025) No Build								Opening Year (2025) Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
N/O Ocean St On	500	1,577	15.8	B	50	2,390	23.9	C	50	1,564	15.6	B	50	2,416	24.2	C	50
Ocean St On - SR 17 On	2,070	2,156	21.6	C	50	2,791	27.9	D	50	2,143	21.4	C	50	2,816	28.2	D	50
SR 17 On - Fairmount Ave Off	2,300	3,481	21.1	C	55	4,161	25.2	C	55	3,483	21.1	C	55	4,187	25.4	C	55
Fairmount Ave Off - On	1,020	3,221	17.3	B	62	3,742	20.1	C	62	3,224	17.3	B	62	3,768	20.3	C	62
Fairmount Ave On - Morrissey Blvd On	710	3,418	18.4	C	62	3,853	20.7	C	62	3,421	18.4	C	62	3,879	20.9	C	62
Morrissey Blvd On - Soquel Dr Off	3,820	3,746	20.1	C	62	4,073	22.0	C	62	3,741	20.1	C	62	4,111	22.2	C	62
Soquel Dr Off - On	1,220	2,969	24.1	C	62	3,029	32.4	D	45	2,966	24.1	C	62	3,057	24.9	C	62
Soquel Dr On - 41st Ave Off	4,810	3,478	18.7	C	62	3,459	52.9	F	20	3,475	18.7	C	62	3,498	18.8	C	62
41st Ave Off - SB 41st Ave On	1,370	2,859	23.4	C	61	2,706	61.3	F	20	2,857	23.3	C	61	2,766	22.7	C	61
SB 41st Ave On - NB 41st Ave On	660	3,066	25.0	C	61	2,993	67.8	F	20	3,064	25.0	C	61	3,054	25.0	C	61
NB 41st Ave On - Bay Ave/Porter St Off	790	3,617	19.4	C	62	3,947	55.1	F	23	3,615	19.4	C	62	4,007	21.9	C	61
Bay Ave/Porter St Off - Bay Ave/Porter St On	1,460	3,018	24.9	C	61	3,194	59.6	F	26	3,017	24.8	C	61	3,256	27.4	D	60
Bay Ave/Porter St On - Park Ave Off (merge area)	1,400	3,371	18.1	C	62	3,755	67.5	F	18	3,370	18.1	C	62	3,818	20.5	C	62
Bay Ave/Porter St On - Park Ave Off (diverge area)	2,600	3,371	18.1	C	62	3,756	75.3	F	16	3,370	18.1	C	62	3,819	21.2	C	60
Park Ave Off - Park Ave On	2,010	2,721	22.0	C	62	3,251	59.5	F	27	2,726	22.0	C	62	3,311	28.8	D	58
Park Ave On - State Park Dr Off	6,120	3,024	16.3	B	62	3,797	91.1	F	14	3,029	16.3	B	62	3,857	20.7	C	62
State Park Dr Off - SB State Park Dr On	1,240	2,542	20.5	C	62	3,201	87.7	F	18	2,548	20.5	C	62	3,267	27.1	D	61
SB State Park Dr On - NB State Park Dr On	930	2,809	22.8	C	62	3,684	62.9	F	29	2,819	15.1	B	62	3,727	20.0	C	62
NB State Park Dr On - Rio Del Mar Blvd Off	5,330	2,932	24.1	C	61	3,839	36.9	E	53	2,944	15.8	B	62	3,888	26.2	D	51
Rio Del Mar Blvd Off-On	2,830	2,571	21.2	C	61	3,276	28.3	D	58	2,581	21.3	C	61	3,325	30.3	D	55
Rio Del Mar Blvd On - Freedom Blvd Off	1,660	2,917	24.2	C	60	3,721	33.7	D	55	2,930	16.0	B	61	3,774	20.6	C	61
Freedom Blvd Off - On	2,270	2,540	20.5	C	62	3,051	24.7	C	62	2,549	20.6	C	62	3,101	25.4	C	61
Freedom On - Larkin Valley Rd Off	3,040	2,675	21.8	C	61	3,202	26.5	D	61	2,683	21.9	C	61	3,252	27.7	D	59
Corridor Limits: Project Limits + Adj. & U/S Links	**50,160**	**3,024**	**20.6**	**C**	**61**	**3,533**	**47.9**	**F**	**29**	**3,027**	**19.3**	**C**	**61**	**3,581**	**23.9**	**C**	**58**

AM Peak Period 6 am - 12 pm
PM Peak Period 2 pm - 8 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-5 Horizon Year (2045) FREQ Analysis Results by Peak Period in Northbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Horizon Year (2045) No Build								Horizon Year (2045) Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
S/O Larkin Valley Rd Off	3,400	2,440	121.8	F	9	2,594	21.0	C	62	2,472	116.7	F	10	2,590	21.0	C	62
Larkin Valley Rd Off - On	1,970	2,323	114.9	F	9	2,474	20.0	C	62	2,354	110.4	F	10	2,470	19.9	C	62
Larkin Valley Rd On - Freedom Blvd Off	1,830	2,708	97.3	F	13	2,740	22.4	C	61	2,739	92.1	F	14	2,736	22.3	C	61
Freedom Blvd Off - On	2,010	2,460	110.3	F	10	2,594	22.1	C	59	2,459	102.7	F	11	2,589	20.9	C	62
Freedom Blvd On - Rio Del Mar Blvd Off	2,445	3,196	76.0	F	20	3,099	26.9	D	58	3,191	92.8	F	11	3,100	16.7	B	62
Rio Del Mar Blvd Off - On	1,890	2,775	95.5	F	14	2,681	21.7	C	62	2,815	93.5	F	14	2,677	21.6	C	62
Rio Del Mar Blvd On - State Park Dr Off	5,320	3,496	67.5	F	25	3,166	27.2	D	59	3,512	91.6	F	13	3,165	17.0	B	62
State Park Dr Off - NB State Park Dr On	880	2,961	76.5	F	18	2,591	20.9	C	62	2,947	81.8	F	17	2,587	20.9	C	62
NB State Park Dr On - SB State Park Dr On	1,125	3,154	69.9	F	21	2,758	22.4	C	62	3,137	71.6	F	21	2,753	22.3	C	62
SB State Park Dr On - Park Ave Off	6,320	3,546	78.1	F	14	3,195	17.2	B	62	3,571	79.5	F	14	3,191	17.2	B	62
Corridor Limits: Project Limits + Adj. & U/S Links	**27,190**	**3,052**	**88.5**	**F**	**16**	**2,905**	**22.1**	**C**	**60**	**3,071**	**93.2**	**F**	**13**	**2,902**	**19.0**	**C**	**62**

AM Peak Period 6 am - 12 pm
PM Peak Period 2 pm - 8 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-6 Horizon Year (2045) FREQ Analysis Results by Peak Period in Southbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Horizon Year (2045) No Build								Horizon Year (2045) Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
N/O Ocean St On	500	1,782	17.8	B	50	2,463	67.0	F	18	1,804	18.0	C	50	2,731	27.8	D	49
Ocean St On - SR 17 On	2,070	2,505	25.1	C	50	2,842	65.9	F	21	2,527	25.3	C	50	3,133	31.4	D	50
SR 17 On - Fairmount Ave Off	2,300	3,875	23.5	C	55	4,213	69.6	F	19	3,897	23.6	C	55	4,505	27.4	D	55
Fairmount Ave Off - On	1,020	3,615	19.4	C	62	3,764	83.4	F	14	3,637	19.6	C	62	4,086	22.0	C	62
Fairmount Ave On - Morrissey Blvd On	710	3,856	20.8	C	62	3,912	82.4	F	15	3,878	20.9	C	62	4,233	22.9	C	62
Morrissey Blvd On - Soquel Dr Off	3,820	4,213	22.8	C	62	4,203	83.8	F	16	4,213	22.8	C	62	4,473	24.3	C	61
Soquel Dr Off - On	1,220	3,375	28.1	D	60	3,129	92.3	F	15	3,373	28.1	D	60	3,390	31.4	D	54
Soquel Dr On - 41st Ave Off	4,810	3,905	21.4	C	61	3,538	106.0	F	10	3,903	21.4	C	61	3,809	77.6	F	16
41st Ave Off - SB 41st Ave On	1,370	3,288	29.2	D	57	2,736	99.6	F	12	3,285	29.2	D	57	3,005	76.6	F	19
SB 41st Ave On - NB 41st Ave On	660	3,524	31.3	D	57	3,070	104.0	F	13	3,521	31.3	D	57	3,373	80.8	F	20
NB 41st Ave On - Bay Ave/Porter St Off	790	4,090	25.7	C	54	4,082	80.5	F	16	4,088	25.6	C	54	4,383	63.1	F	23
Bay Ave/Porter St Off - Bay Ave/Porter St On	1,460	3,464	30.3	D	58	3,291	80.4	F	19	3,460	30.3	D	58	3,628	58.8	F	30
Bay Ave/Porter St On - Park Ave Off (merge area)	1,400	3,850	20.7	C	62	3,899	97.1	F	13	3,846	20.7	C	62	4,229	73.9	F	19
Bay Ave/Porter St On - Park Ave Off (diverge area)	2,600	3,850	20.7	C	62	3,895	99.5	F	13	3,846	20.7	C	62	4,249	83.4	F	17
Park Ave Off - Park Ave On	2,010	3,134	26.3	D	60	3,303	70.5	F	23	3,129	26.2	D	60	3,674	44.0	E	42
Park Ave On - State Park Dr Off	6,120	3,517	18.9	C	62	3,926	102.9	F	13	3,512	18.9	C	62	4,320	54.6	F	27
State Park Dr Off - SB State Park Dr On	1,240	2,971	28.0	D	54	3,264	95.3	F	17	2,983	24.2	C	62	3,653	55.4	F	33
SB State Park Dr On - NB State Park Dr On	930	3,254	32.8	D	51	3,777	64.4	F	29	3,261	17.5	B	62	4,185	66.6	F	21
NB State Park Dr On - Rio Del Mar Blvd Off	5,330	3,375	30.1	D	56	3,950	38.3	E	52	3,392	18.2	C	62	4,374	73.7	F	20
Rio Del Mar Blvd Off-On	2,830	2,977	28.7	D	53	3,360	29.2	D	58	2,985	25.4	C	59	3,713	36.0	E	51
Rio Del Mar Blvd On - Freedom Blvd Off	1,660	3,353	29.1	D	58	3,815	34.6	D	55	3,364	18.4	C	61	4,171	22.8	C	61
Freedom Blvd Off - On	2,270	2,937	23.9	C	62	3,194	25.8	C	62	2,955	25.4	C	59	3,482	28.7	D	61
Freedom On - Larkin Valley Rd Off	3,040	3,070	25.6	C	60	3,379	28.1	D	60	3,090	26.0	D	60	3,667	32.3	D	57
Corridor Limits: Project Limits + Adj. & U/S Links	**50,160**	**3,458**	**24.7**	**C**	**58**	**3,635**	**72.5**	**F**	**19**	**3,464**	**22.6**	**C**	**60**	**3,968**	**50.8**	**F**	**29**

AM Peak Period 6 am - 12 pm
PM Peak Period 2 pm - 8 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

FREQ Analysis Results by Peak Hour

Table E-7 Existing (2019) FREQ Analysis Results by Peak Hour in Northbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Existing (2019)								Existing (2019) plus Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
S/O Larkin Valley Rd Off	3,400	2,220	17.9	B	62	2,547	20.6	C	62	2,219	17.9	B	62	2,564	20.7	C	62
Larkin Valley Rd Off - On	1,970	2,100	54.8	F	19	2,434	19.6	C	62	2,101	17.0	B	62	2,451	19.8	C	62
Larkin Valley Rd On - Freedom Blvd Off	1,830	2,661	96.8	F	14	2,706	21.8	C	62	2,645	21.4	C	62	2,724	22.0	C	62
Freedom Blvd Off - On	2,010	2,407	113.1	F	10	2,549	20.6	C	62	2,391	19.3	C	62	2,567	20.7	C	62
Freedom Blvd On - Rio Del Mar Blvd Off	2,445	3,547	61.3	F	29	3,108	25.3	C	61	3,537	38.5	E	31	3,133	16.9	B	62
Rio Del Mar Blvd Off - On	1,890	3,252	79.4	F	20	2,624	21.2	C	62	3,262	76.3	F	22	2,649	21.4	C	62
Rio Del Mar Blvd On - State Park Dr Off	5,320	3,886	54.7	F	36	2,993	24.2	C	62	3,898	88.3	F	15	3,024	16.3	B	62
State Park Dr Off - NB State Park Dr On	880	3,309	64.9	F	25	2,525	20.4	C	62	3,310	66.9	F	25	2,553	20.6	C	62
NB State Park Dr On - SB State Park Dr On	1,125	3,501	59.4	F	29	2,667	21.5	C	62	3,502	59.4	F	29	2,695	21.7	C	62
SB State Park Dr On - Park Ave Off	6,320	3,986	42.5	E	47	3,087	25.0	C	62	3,988	42.4	E	47	3,113	25.2	C	62
Corridor Limits: Project Limits + Adj. & U/S Links	**27,190**	**3,270**	**57.2**	**F**	**29**	**2,822**	**22.8**	**C**	**62**	**3,271**	**46.8**	**F**	**29**	**2,847**	**20.6**	**C**	**62**

AM Peak Hour 7 am - 8 am
PM Peak Hour 4 pm - 5 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-8 Existing (2019) FREQ Analysis Results by Peak Hour in Southbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Existing (2019)								Existing (2019) plus Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
N/O Ocean St On	500	1,024	10.3	A	50	2,833	28.4	D	50	1,039	10.4	A	50	2,796	32.4	D	43
Ocean St On - SR 17 On	2,070	1,674	16.7	B	50	3,146	36.2	E	43	1,687	16.9	B	50	3,059	56.0	F	27
SR 17 On - Fairmount Ave Off	2,300	3,123	18.9	C	55	4,212	54.3	F	25	3,135	19.0	C	55	4,179	67.8	F	21
Fairmount Ave Off - On	1,020	2,861	15.4	B	62	3,601	86.8	F	14	2,874	15.5	B	62	3,635	107.0	F	12
Fairmount Ave On - Morrissey Blvd On	710	3,078	16.5	B	62	3,669	101.6	F	12	3,090	16.6	B	62	3,703	116.1	F	10
Morrissey Blvd On - Soquel Dr Off	3,820	3,444	18.5	C	62	3,838	113.3	F	11	3,455	18.6	C	62	3,868	112.9	F	11
Soquel Dr Off - On	1,220	2,712	21.9	C	62	2,654	126.3	F	10	2,721	22.0	C	62	2,687	125.0	F	10
Soquel Dr On - 41st Ave Off	4,810	3,255	27.5	D	60	3,064	120.2	F	13	3,264	27.6	D	60	3,099	118.8	F	13
41st Ave Off - SB 41st Ave On	1,370	2,810	22.9	C	61	2,309	119.1	F	10	2,820	23.0	C	61	2,345	117.6	F	10
SB 41st Ave On - NB 41st Ave On	660	3,007	24.5	C	62	2,549	129.5	F	10	3,017	24.5	C	62	2,585	128.1	F	10
NB 41st Ave On - Bay Ave/Porter St Off	790	3,569	19.3	C	62	3,595	100.4	F	12	3,575	19.6	C	61	3,632	99.3	F	12
Bay Ave/Porter St Off - Bay Ave/Porter St On	1,460	3,007	31.3	D	49	2,905	100.1	F	14	3,014	31.8	D	49	2,940	98.7	F	15
Bay Ave/Porter St On - Park Ave Off (merge area)	1,400	3,378	29.9	D	57	3,544	67.0	F	26	3,384	30.0	D	57	3,578	65.7	F	27
Bay Ave/Porter St On - Park Ave Off (diverge area)	2,600	3,378	29.9	D	57	3,544	67.0	F	26	3,384	30.0	D	57	3,578	65.7	F	27
Park Ave Off - Park Ave On	2,010	2,720	22.0	C	62	3,098	78.7	F	20	2,729	22.0	C	62	3,175	78.4	F	20
Park Ave On - State Park Dr Off	6,120	3,044	25.0	C	61	3,745	43.4	E	43	3,053	25.1	C	61	3,850	37.3	E	52
State Park Dr Off - SB State Park Dr On	1,240	2,729	22.0	C	62	3,240	73.1	F	22	2,737	22.1	C	62	3,363	27.4	D	61
SB State Park Dr On - NB State Park Dr On	930	3,013	24.4	C	61	3,756	63.1	F	30	3,024	16.3	B	62	3,881	20.9	C	62
NB State Park Dr On - Rio Del Mar Blvd Off	5,330	3,182	26.2	D	61	3,950	38.3	E	52	3,195	17.2	B	62	4,076	21.9	C	62
Rio Del Mar Blvd Off-On	2,830	2,910	23.9	C	61	3,411	29.7	D	57	2,922	24.0	C	61	3,520	31.4	D	56
Rio Del Mar Blvd On - Freedom Blvd Off	1,660	3,441	28.9	D	59	3,875	35.5	E	54	3,457	18.9	C	61	3,989	21.8	C	61
Freedom Blvd Off - On	2,270	2,943	23.8	C	62	3,237	26.2	D	62	2,956	23.9	C	62	3,330	27.0	D	62
Freedom On - Larkin Valley Rd Off	3,040	3,210	26.5	D	61	3,376	27.9	D	61	3,224	26.6	D	61	3,469	29.0	D	60
Corridor Limits: Project Limits + Adj. & U/S Links	**50,160**	**3,042**	**24.0**	**C**	**59**	**3,470**	**66.7**	**F**	**23**	**3,052**	**22.7**	**C**	**60**	**3,532**	**63.7**	**F**	**24**

AM Peak Hour 7 am - 8 am
PM Peak Hour 4 pm - 5 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-9 Opening Year (2025) FREQ Analysis Results by Peak Hour in Northbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Opening Year (2025) No Build								Opening Year (2025) Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
S/O Larkin Valley Rd Off	3,400	2,264	19.3	C	59	2,710	21.9	C	62	2,356	19.4	C	61	2,729	22.0	C	62
Larkin Valley Rd Off - On	1,970	2,326	89.9	F	13	2,593	20.9	C	62	2,318	42.0	E	27	2,612	21.1	C	62
Larkin Valley Rd On - Freedom Blvd Off	1,830	2,871	96.4	F	15	2,866	23.1	C	62	2,863	23.2	C	62	2,885	23.3	C	62
Freedom Blvd Off - On	2,010	2,579	113.4	F	11	2,706	21.8	C	62	2,555	25.5	C	50	2,725	22.0	C	62
Freedom Blvd On - Rio Del Mar Blvd Off	2,445	3,736	58.7	F	32	3,263	27.0	D	60	3,740	41.6	E	31	3,287	17.7	B	62
Rio Del Mar Blvd Off - On	1,890	3,419	79.1	F	21	2,767	22.3	C	62	3,493	60.3	F	30	2,789	22.5	C	62
Rio Del Mar Blvd On - State Park Dr Off	5,320	4,100	45.6	F	45	3,151	25.6	C	61	4,324	79.1	F	18	3,175	17.1	B	62
State Park Dr Off - NB State Park Dr On	880	3,509	32.9	D	54	2,664	21.5	C	62	3,703	56.8	F	32	2,684	21.6	C	62
NB State Park Dr On - SB State Park Dr On	1,125	3,705	33.8	D	55	2,814	22.7	C	62	3,900	37.8	E	52	2,834	22.9	C	62
SB State Park Dr On - Park Ave Off	6,320	4,087	22.4	C	61	3,246	17.5	B	62	4,050	30.7	D	42	3,264	17.5	B	62
Corridor Limits: Project Limits + Adj. & U/S Links	**27,190**	**3,428**	**51.1**	**F**	**32**	**2,979**	**22.1**	**C**	**62**	**3,492**	**42.8**	**E**	**31**	**3,000**	**19.7**	**C**	**62**

AM Peak Hour 7 am - 8 am
PM Peak Hour 4 pm - 5 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-10 Opening Year (2025) FREQ Analysis Results by Peak Hour in Southbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Opening Year (2025) No Build								Opening Year (2025) Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
N/O Ocean St On	500	1,106	11.1	B	50	2,973	29.8	D	50	1,135	11.3	B	50	3,010	30.1	D	50
Ocean St On - SR 17 On	2,070	1,799	18.0	B	50	3,329	33.3	D	50	1,829	18.3	C	50	3,363	33.6	D	50
SR 17 On - Fairmount Ave Off	2,300	3,160	19.2	C	55	4,525	27.4	D	55	3,288	19.9	C	55	4,558	27.6	D	55
Fairmount Ave Off - On	1,020	2,897	15.6	B	62	3,980	21.4	C	62	3,023	16.3	B	62	4,013	21.6	C	62
Fairmount Ave On - Morrissey Blvd On	710	3,132	16.8	B	62	4,056	21.8	C	62	3,258	17.5	B	62	4,089	22.0	C	62
Morrissey Blvd On - Soquel Dr Off	3,820	3,510	18.9	C	62	4,146	22.3	C	62	3,626	19.5	C	62	4,260	22.9	C	62
Soquel Dr Off - On	1,220	2,766	22.4	C	62	2,961	31.8	D	45	2,873	23.2	C	62	3,075	24.8	C	62
Soquel Dr On - 41st Ave Off	4,810	3,332	17.9	B	62	3,086	71.5	F	14	3,436	18.5	C	62	3,493	18.8	C	62
41st Ave Off - SB 41st Ave On	1,370	2,890	23.8	C	61	2,175	102.7	F	11	2,987	24.6	C	61	2,709	21.9	C	62
SB 41st Ave On - NB 41st Ave On	660	3,097	25.5	C	61	2,430	119.8	F	10	3,193	26.3	D	61	2,966	23.9	C	62
NB 41st Ave On - Bay Ave/Porter St Off	790	3,695	19.9	C	62	3,502	97.3	F	12	3,789	20.4	C	62	4,036	21.7	C	62
Bay Ave/Porter St Off - Bay Ave/Porter St On	1,460	3,136	26.4	D	60	2,799	104.2	F	13	3,220	27.1	D	60	3,330	27.4	D	60
Bay Ave/Porter St On - Park Ave Off (merge area)	1,400	3,519	18.9	C	62	3,460	120.2	F	9	3,604	19.4	C	62	3,990	21.5	C	62
Bay Ave/Porter St On - Park Ave Off (diverge area)	2,600	3,519	18.9	C	62	3,460	120.2	F	9	3,604	19.4	C	62	3,990	21.5	C	62
Park Ave Off - Park Ave On	2,010	2,832	22.9	C	62	3,038	84.0	F	18	2,915	23.5	C	62	3,566	31.3	D	57
Park Ave On - State Park Dr Off	6,120	3,185	17.1	B	62	3,757	114.7	F	11	3,269	17.6	B	62	4,282	23.0	C	62
State Park Dr Off - SB State Park Dr On	1,240	2,856	23.1	C	62	3,216	98.0	F	16	2,933	23.7	C	62	3,746	31.8	D	59
SB State Park Dr On - NB State Park Dr On	930	3,144	25.8	C	61	3,749	65.6	F	28	3,225	17.3	B	62	4,283	23.0	C	62
NB State Park Dr On - Rio Del Mar Blvd Off	5,330	3,317	28.0	D	59	3,950	38.3	E	52	3,400	18.3	C	62	4,406	46.7	F	31
Rio Del Mar Blvd Off-On	2,830	3,041	25.4	C	60	3,418	29.8	D	57	3,116	26.0	D	60	3,800	37.0	E	51
Rio Del Mar Blvd On - Freedom Blvd Off	1,660	3,589	31.1	D	58	3,889	35.9	E	54	3,668	20.1	C	61	4,274	23.4	C	61
Freedom Blvd Off - On	2,270	3,085	25.0	C	62	3,270	26.5	D	62	3,148	25.5	C	62	3,592	29.6	D	61
Freedom On - Larkin Valley Rd Off	3,040	3,359	28.4	D	59	3,422	28.4	D	60	3,422	29.0	D	59	3,744	32.7	D	57
Corridor Limits: Project Limits + Adj. & U/S Links	**50,160**	**3,154**	**21.9**	**C**	**60**	**3,526**	**62.4**	**F**	**22**	**3,241**	**20.8**	**C**	**61**	**3,894**	**28.0**	**D**	**53**

AM Peak Hour 7 am - 8 am
PM Peak Hour 4 pm - 5 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-11 Horizon Year (2045) FREQ Analysis Results by Peak Hour in Northbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Horizon Year (2045) No Build								Horizon Year (2045) Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
S/O Larkin Valley Rd Off	3,400	2,468	133.9	F	9	3,152	25.6	C	61	2,434	96.0	F	12	3,147	25.6	C	61
Larkin Valley Rd Off - On	1,970	2,328	123.6	F	9	3,024	24.4	C	62	2,293	95.7	F	12	3,019	24.4	C	62
Larkin Valley Rd On - Freedom Blvd Off	1,830	2,867	90.5	F	16	3,293	27.1	D	61	2,834	65.5	F	21	3,289	27.0	D	61
Freedom Blvd Off - On	2,010	2,416	120.1	F	10	3,133	25.3	C	62	2,354	94.5	F	13	3,129	25.3	C	62
Freedom Blvd On - Rio Del Mar Blvd Off	2,445	3,602	61.8	F	29	3,692	33.2	D	56	3,494	80.1	F	14	3,693	19.8	C	62
Rio Del Mar Blvd Off - On	1,890	3,246	86.2	F	19	3,167	25.6	C	62	3,111	70.4	F	22	3,163	25.6	C	62
Rio Del Mar Blvd On - State Park Dr Off	5,320	4,078	39.6	E	52	3,593	30.6	D	59	3,976	75.2	F	18	3,593	19.3	C	62
State Park Dr Off - NB State Park Dr On	880	3,521	33.2	D	53	3,041	24.6	C	62	3,344	52.7	F	31	3,037	24.5	C	62
NB State Park Dr On - SB State Park Dr On	1,125	3,721	34.1	D	55	3,194	25.8	C	62	3,541	36.5	E	48	3,189	25.8	C	62
SB State Park Dr On - Park Ave Off	6,320	3,769	26.6	D	44	3,647	19.6	C	62	3,827	35.1	E	32	3,642	19.6	C	62
Corridor Limits: Project Limits + Adj. & U/S Links	**27,190**	**3,340**	**68.6**	**F**	**23**	**3,400**	**25.8**	**C**	**60**	**3,288**	**68.5**	**F**	**20**	**3,397**	**22.4**	**C**	**62**

AM Peak Hour 7 am - 8 am
PM Peak Hour 4 pm - 5 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Table E-12 Horizon Year (2045) FREQ Analysis Results by Peak Hour in Southbound Corridor Limits – Volume, Density, LOS and Speed, No Build versus Build Conditions

	Distance (ft)	Horizon Year (2045) No Build								Horizon Year (2045) Build							
		AM				PM				AM				PM			
		Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)	Volume (vph)	Density (pc/mi/ln)	LOS	Speed (mph)
N/O Ocean St On	500	1,282	12.8	B	50	2,300	75.6	F	14	1,309	13.1	B	50	2,995	30.6	D	49
Ocean St On - SR 17 On	2,070	2,146	21.5	C	50	2,525	83.2	F	15	2,173	21.7	C	50	3,350	33.5	D	50
SR 17 On - Fairmount Ave Off	2,300	3,641	22.1	C	55	3,723	93.9	F	13	3,667	22.2	C	55	4,547	27.6	D	55
Fairmount Ave Off - On	1,020	3,375	18.2	C	62	3,183	130.3	F	8	3,400	18.3	C	62	4,005	21.5	C	62
Fairmount Ave On - Morrissey Blvd On	710	3,661	19.7	C	62	3,284	127.5	F	8	3,686	19.8	C	62	4,104	22.1	C	62
Morrissey Blvd On - Soquel Dr Off	3,820	4,074	22.0	C	62	3,484	123.2	F	9	4,073	22.0	C	62	4,285	23.1	C	62
Soquel Dr Off - On	1,220	3,261	26.8	D	61	2,310	140.4	F	8	3,253	26.7	D	61	3,112	25.8	C	60
Soquel Dr On - 41st Ave Off	4,810	3,805	20.8	C	61	2,734	142.5	F	6	3,798	20.7	C	61	3,498	84.8	F	14
41st Ave Off - SB 41st Ave On	1,370	3,358	32.2	D	53	1,880	136.6	F	7	3,344	32.1	D	53	2,642	95.6	F	14
SB 41st Ave On - NB 41st Ave On	660	3,594	35.5	E	52	2,214	142.8	F	8	3,580	35.4	E	52	2,974	102.1	F	14
NB 41st Ave On - Bay Ave/Porter St Off	790	4,208	30.6	D	47	3,354	105.9	F	11	4,195	30.6	D	47	4,109	78.9	F	17
Bay Ave/Porter St Off - Bay Ave/Porter St On	1,460	3,614	32.5	D	56	2,621	111.7	F	12	3,596	32.4	D	56	3,377	72.7	F	23
Bay Ave/Porter St On - Park Ave Off (merge area)	1,400	4,035	21.7	C	62	3,338	123.0	F	9	4,017	21.6	C	62	4,094	96.0	F	14
Bay Ave/Porter St On - Park Ave Off (diverge area)	2,600	4,035	21.7	C	62	3,338	123.0	F	9	4,017	21.6	C	62	4,094	96.0	F	14
Park Ave Off - Park Ave On	2,010	3,289	27.5	D	60	2,866	91.0	F	16	3,269	27.3	D	60	3,624	45.9	F	39
Park Ave On - State Park Dr Off	6,120	3,734	20.1	C	62	3,720	115.7	F	10	3,714	20.0	C	62	4,306	67.3	F	21
State Park Dr Off - SB State Park Dr On	1,240	3,282	29.3	D	56	3,123	101.8	F	15	3,350	27.4	D	61	3,687	76.0	F	24
SB State Park Dr On - NB State Park Dr On	930	3,578	44.0	E	41	3,725	66.6	F	28	3,651	19.6	C	62	4,290	99.7	F	14
NB State Park Dr On - Rio Del Mar Blvd Off	5,330	3,719	37.9	E	49	3,950	38.3	E	52	3,831	20.6	C	62	4,522	91.8	F	16
Rio Del Mar Blvd Off-On	2,830	3,415	48.0	F	36	3,342	28.8	D	58	3,512	31.7	D	56	3,800	37.0	E	51
Rio Del Mar Blvd On - Freedom Blvd Off	1,660	4,010	38.8	E	51	3,824	34.9	D	55	4,110	22.5	C	61	4,283	23.4	C	61
Freedom Blvd Off - On	2,270	3,459	28.4	D	61	3,208	25.9	C	62	3,597	34.8	D	52	3,623	29.9	D	60
Freedom On - Larkin Valley Rd Off	3,040	3,735	33.4	D	56	3,392	28.1	D	60	3,873	35.7	E	55	3,807	33.8	D	56
Corridor Limits: Project Limits + Adj. & U/S Links	**50,160**	**3,614**	**27.9**	**D**	**55**	**3,269**	**91.0**	**F**	**14**	**3,648**	**24.5**	**C**	**59**	**3,927**	**59.0**	**F**	**25**

AM Peak Hour 7 am - 8 am
PM Peak Hour 4 pm - 5 pm

KEY	
TEXT	Upstream Segments
TEXT	Adjacent Segments
TEXT	Project Limits

Appendix F

Caltrans TASAS Data

Volume Information

Volume information is summarized for each request under the following headings.

A

ADT MAIN X—ST. All **A**verage **D**aily **T**raffic (ADT) figures shown in this column are to the 1000/s and are weighted averages for the time period. On highway segment requests the ADT value is the average ADT along the highway segment. For ramps the value is simply the ADT on the ramp. For intersections the top figure is the entering ADT on mainline (State Highway) while the bottom figure is the entering ADT on the cross street.

B

TOTAL MV+ OR MVM. On intersections and ramps the figures represent **M**illion **V**ehicles (MV) using the facility. On highway segments the figure represents the **M**illion **V**ehicle **M**iles (MVM) of travel on the segment. Note: All MV data is indicated with a + following the value.

Rate Calculations.

For each request Table B lists the actual accident rates and the expected accident rates for the facility. Both the Actual and Average rates are listed under the following headings.

1

FAT. **Fat**al accident rate - the fatal accidents divided by the MV or MVM figures.

2

F+I. **F**atal **+ I**njury accident rate - the total of fatal and injury accidents divided by the MV or MVM figures.

3

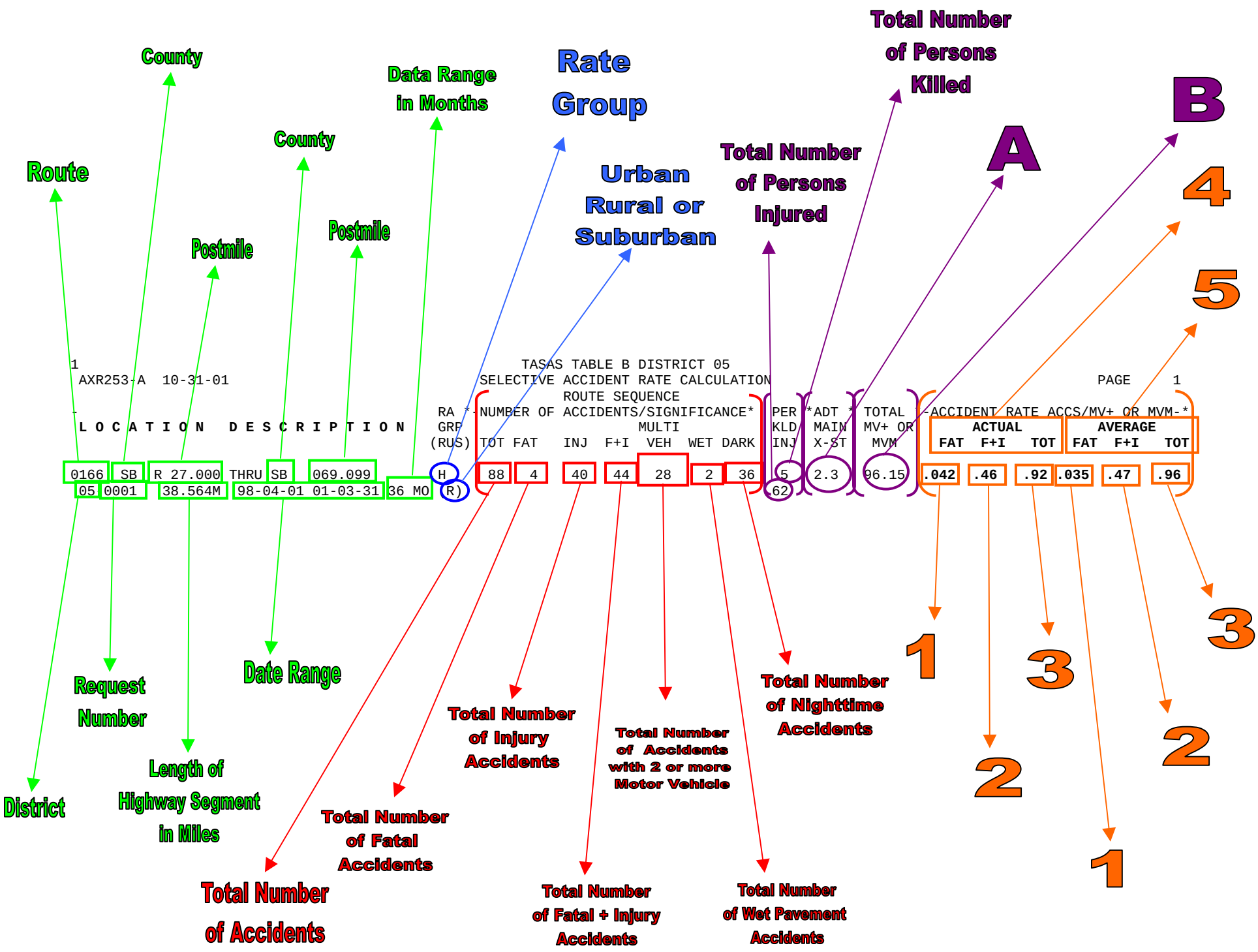
TOT. **Tot**al accident rate – the total number of accidents divided by the MV or MVM figures.

4

The **ACTUAL** accident rate is the actual accident rate for the highway segment listed on the Table B.

5

The **AVERAGE** accident rate is the rate for similar type of highway segments listed on the Table B with the same volumes.


Route
County
Postmile
County
Postmile
Data Range in Months
Rate Group
Urban Rural or Suburban
Total Number of Persons Injured
Total Number of Persons Killed
A
B
4
5
1
AXR253-A 10-31-01
TASAS TABLE B DISTRICT 05
SELECTIVE ACCIDENT RATE CALCULATION
ROUTE SEQUENCE
PAGE 1
LOCATION DESCRIPTION
RA GRP (RUS)
NUMBER OF ACCIDENTS/SIGNIFICANCE MULTI
TOT FAT INJ F+I VEH WET DARK
PER KLD/ INJ
ADT MAIN X-ST
TOTAL MV+ OR MVM
ACCIDENT RATE ACCS/MV+ OR MVM
ACTUAL FAT F+I TOT
AVERAGE FAT F+I TOT
0166 SB R 27.000 THRU SB 069.099
05 0001 38.564M 98-04-01 01-03-31 36 MO
H R
88 4 40 44 28 2 36 5 62 2.3 96.15
.042 .46 .92 .035 .47 .96
District
Request Number
Length of Highway Segment in Miles
Date Range
Total Number of Accidents
Total Number of Fatal Accidents
Total Number of Injury Accidents
Total Number of Fatal + Injury Accidents
Total Number of Accidents with 2 or more Motor Vehicle
Total Number of Wet Pavement Accidents
Total Number of Nighttime Accidents
1
2
3
1
2
3

California Department of Transportation

OTM22130

Table B - Selective Accident Rate Calculation

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

OTM22130

Table B - Selective Accident Rate Calculation

Report Parameters-

Event ID: 4225144

Request Name: R006431-051220_SCR-001-7.7

Ref Date: 05/15/2020

Request- & Line	LOC	DIR	LSC	Route/Location	Begin Date	End Date	Rate Type	Out Seq	Override Rates Rate	Override Rates Inj%	Override Rates Fat%	Override ADT Main	Override ADT Cross	Req. Type	Com- bine?	Excl Ramp?
1 1	H	N	I	05 SCR 001 R007.702 - 05 SCR 001 008.356	01-JAN-10	31-DEC-19	N	L						N	N	Y
1 2	H	N	I	05 SCR 001 008.355 - 05 SCR 001 009.154	01-JAN-10	31-DEC-19	N	L						N	N	Y
1 3	H	N	I	05 SCR 001 009.153 - 05 SCR 001 010.536	01-JAN-10	31-DEC-19	N	L						N	N	Y
1 4	H	S	I	05 SCR 001 009.153 - 05 SCR 001 010.536	01-JAN-10	31-DEC-19	N	L						N	N	Y
1 5	H	S	I	05 SCR 001 008.355 - 05 SCR 001 009.154	01-JAN-10	31-DEC-19	N	L						N	N	Y
1 6	H	S	I	05 SCR 001 R007.702 - 05 SCR 001 008.356	01-JAN-10	31-DEC-19	N	L						N	N	Y

Event Log:

Job id is : 157057 Accidents Table B Request R006431-051220_SCR-001-7.7 Submitted by T5MXIONG
05 SCR 001 R 7.702 - 05 SCR 001 8.356 01/01/2010 TO 12/31/2019
05 SCR 001 8.355 - 05 SCR 001 9.154 01/01/2010 TO 12/31/2019
05 SCR 001 9.153 - 05 SCR 001 10.536 01/01/2010 TO 12/31/2019
05 SCR 001 9.153 - 05 SCR 001 10.536 01/01/2010 TO 12/31/2019
05 SCR 001 8.355 - 05 SCR 001 9.154 01/01/2010 TO 12/31/2019
05 SCR 001 R 7.702 - 05 SCR 001 8.356 01/01/2010 TO 12/31/2019

California Department of Transportation
Table B - Selective Accident Rate Calculation

Location Description	Rate Group (RUS)	No. of Accidents / Significance Tot	Fat	Inj	F+I	Multi Veh	Wet	Dark	Pers Kld Inj	ADT Main X-St	Total MV+ or MVM	Accident Rates Actual Fat	F+I	Tot	Average Fat	F+I	Tot
05 SCR 001 R007.702 - 05 SCR 001 008.355	**.859 MI** H	174	0	65	65	137	25	28	0	34.7	108.85	0.000	.60	1.60	0.005	.20	.59
0001-0001 2010-01-01 2019-12-31 *120 mo.*	NORTH S	**H99**		**H99**	**H99**		**H99**		95								
05 SCR 001 008.355 - 05 SCR 001 009.153	**.799 MI** H 59	139	1	53	54	107	16	30	1	39.7	115.92	0.009	.47	1.20	0.009	.34	.91
0001-0002 2010-01-01 2019-12-31 *120 mo.*	NORTH S	**H99**		**H97**	**H97**				75								
05 SCR 001 009.153 - 05 SCR 001 010.535	**1.383 MI** H 59	402	0	150	150	349	41	68	0	42.0	212.03	0.000	.71	1.90	0.009	.34	.91
0001-0003 2010-01-01 2019-12-31 *120 mo.*	NORTH S	**H99**		**H99**	**H99**				224								
05 SCR 001 009.153 - 05 SCR 001 010.535	**1.383 MI** H 59	133	0	42	42	78	25	46	0	42.0	212.03	0.000	.20	.63	0.009	.34	.91
0001-0004 2010-01-01 2019-12-31 *120 mo.*	SOUTH S								56								
05 SCR 001 008.355 - 05 SCR 001 009.153	**.799 MI** H 59	52	1	13	14	29	6	17	1	39.7	115.92	0.009	.12	.45	0.009	.34	.91
0001-0005 2010-01-01 2019-12-31 *120 mo.*	SOUTH S								16								
05 SCR 001 R007.702 - 05 SCR 001 008.355	**.859 MI** H	65	0	15	15	29	15	26	0	34.7	108.85	0.000	.14	.60	0.005	.20	.59
0001-0006 2010-01-01 2019-12-31 *120 mo.*	SOUTH S								16								

Accident Rates expressed as: **# of accidents / Million vehicle miles**

+ denotes that **Million Vehicles** (MV) used in accident rates instead (for intersections and ramps).

For Ramps RUS only considers R(Rural) U(Urban)

California Department of Transportation

OTM22130

Table B - Selective Accident Rate Calculation

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

OTM22130

Table B - Selective Accident Rate Calculation

Report Parameters-

Event ID: 4256953

Request Name: R005443-020720_SCR-001-AUX

Ref Date: 09/16/2020

Request- & Line	LOC	DIR	LSC	Route/Location	Begin Date	End Date	Rate Type	Out Seq	Override Rates Rate	Override Rates Inj%	Override Rates Fat%	Override ADT Main	Override ADT Cross	Req. Type	Com- bine?	Excl Ramp?
6 1	H	S	I	05 SCR 001 010.535 - 05 SCR 001 011.952	01-JAN-10	31-DEC-19	N	L						N	N	Y
6 2	H	N	I	05 SCR 001 010.535 - 05 SCR 001 012.305	01-JAN-10	31-DEC-19	N	L						N	N	Y

Event Log:

Job id is : 177244 Accidents Table B Request R005443-020720_SCR-001-AUX Submitted by T5MXIONG
05 SCR 001 10.535 - 05 SCR 001 11.952 01/01/2010 TO 12/31/2019
05 SCR 001 10.535 - 05 SCR 001 12.305 01/01/2010 TO 12/31/2019

California Department of Transportation
Table B - Selective Accident Rate Calculation

Location Description	Rate Group (RUS)	No. of Accidents / Significance Tot	Fat	Inj	F+I	Multi Veh	Wet	Dark	Pers Kld Inj	ADT Main X-St	Total MV+ or MVM	Accident Rates Actual Fat	F+I	Tot	Average Fat	F+I	Tot
05 SCR 001 010.535 - 05 SCR 001 011.951	**1.417 MI** H	169	0	71	71	120	19	72	0	43.8	226.60	0.000	.31	.75	0.009	.33	.90
0006-0001 2010-01-01 2019-12-31 *120 mo.*	SOUTH NA								98								
05 SCR 001 010.535 - 05 SCR 001 012.304	**1.770 MI** H	269	1	92	93	216	20	45	1	44.0	284.70	0.004	.33	.95	0.008	.32	.89
0006-0002 2010-01-01 2019-12-31 *120 mo.*	NORTH NA								124								

Accident Rates expressed as: **# of accidents / Million vehicle miles**

+ denotes that **Million Vehicles** (MV) used in accident rates instead (for intersections and ramps).

For Ramps RUS only considers R(Rural) U(Urban)

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  05/15/2020
REFERENCE DATE    :  05/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' R006431-051220_SCR-001-N-7.702 to 8.355
                     '
EVENT ID          :
                     4225197
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 R007.702     TO:  05-SCR-001 008.356
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC NOT IN 1,2,3,4,6
1 2 AND 514 -  SIDE OF HIGHWAY = N
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-N-7.702 to 8.355 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
174	0	65	109	0	95

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
37	21.3	1
115	66.1	2
14	8.0	3
8	4.6	>3

<---LINES CODED---> NUMBER	PCT	CODE
29	16.7	1
122	70.1	2
15	8.6	3
6	3.4	4
2	1.1	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
3	1.7	01- 1 A.M.
1	0.6	02- 2 A.M.
4	2.3	03- 3 A.M.
2	1.1	04- 4 A.M.
5	2.9	05- 5 A.M.
9	5.2	06- 6 A.M.
33	19.0	07- 7 A.M.
36	20.7	08- 8 A.M.
13	7.5	09- 9 A.M.
11	6.3	10- 10 A.M.
10	5.7	11- 11 A.M.
11	6.3	12- 12 NOON
11	6.3	13- 1 P.M.
6	3.4	14- 2 P.M.
3	1.7	15- 3 P.M.
2	1.1	16- 4 P.M.
4	2.3	17- 5 P.M.
2	1.1	18- 6 P.M.
1	0.6	19- 7 P.M.
4	2.3	20- 8 P.M.
1	0.6	21- 9 P.M.
1	0.6	22- 10 P.M.
1	0.6	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
174	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
174	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
9	5.2	2010
13	7.5	2011
16	9.2	2012
12	6.9	2013
11	6.3	2014
22	12.6	2015
32	18.4	2016
20	11.5	2017
21	12.1	2018
18	10.3	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
10	5.7	01-JANUARY
13	7.5	02-FEBRUARY
13	7.5	03-MARCH
14	8.0	04-APRIL
13	7.5	05-MAY
14	8.0	06-JUNE
14	8.0	07-JULY
22	12.6	08-AUGUST
20	11.5	09-SEPTEMBER
22	12.6	10-OCTOBER
12	6.9	11-NOVEMBER
7	4.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
25	14.4	1-SUNDAY
18	10.3	2-MONDAY
38	21.8	3-TUESDAY
26	14.9	4-WEDNESDAY
27	15.5	5-THURSDAY
25	14.4	6-FRIDAY
15	8.6	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-N-7.702 to 8.355 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
11	6.3	1-INFLUENCE ALCOHOL
10	5.7	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
12	6.9	4-IMPROPER TURN
116	66.7	5-SPEEDING
10	5.7	6-OTHER VIOLATIONS
1	0.6	B-IMPROPER DRIVING
12	6.9	C-OTHER THAN DRIVER
2	1.1	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
13	7.5	B-SIDESWIPE
123	70.7	C-REAR END
0	0.0	D-BROADSIDE
28	16.1	E-HIT OBJECT
4	2.3	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
6	3.4	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
1	0.6	C-OBSTRUCTION ON ROAD
5	2.9	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
1	0.6	G-OTHER
167	96.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
115	66.1	A-CLEAR
51	29.3	B-CLOUDY
8	4.6	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
146	83.9	A-DAY LIGHT
3	1.7	B-DUSK/DAWN
12	6.9	C-DARK-STREET LIGHT
13	7.5	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
149	85.6	A-DRY
25	14.4	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
5	2.9	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
169	97.1	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
174	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
0	0.0	3-RAMP ENTRY
0	0.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
174	100.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-N-7.702 to 8.355 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
165	94.8	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
6	3.4	C-MOTORCYCLE
39	22.4	D-PICKUP/PANEL TRUCK
1	0.6	E-PICKUP/PANEL W/TRAILER
1	0.6	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
1	0.6	H-SCHOOL BUS
0	0.0	I-OTHER BUS
2	1.1	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
8	4.6	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
8	4.6	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
63	36.2	A-STOPPED
125	71.8	B-PROCEDED STRAIGHT
15	8.6	C-RAN OFF ROAD
1	0.6	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
59	33.9	H-SLOWING, STOPPING
3	1.7	I-PASS OTHER VEHICLE
12	6.9	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
3	1.7	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
3	1.7	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
3	1.7	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
9	5.2	0	0.0	4-IMPROPER TURN
7	4.0	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
3	1.7	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
3	1.7	1	0.6	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
18	10.3	0	0.0	F-INATTENTION - OTHER
22	12.6	3	1.7	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
1	0.6	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
1	0.6	0	0.0	K-DEFECT VEHICLE EQUIP
1	0.6	0	0.0	L-UNINVOLVED VEHICLE
3	1.7	0	0.0	M-OTHER
142	81.6	1	0.6	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
1	0.6	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
10	5.7	173	99.4	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
174	100.0	N-N, NE, NW BOUND
0	0.0	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND
8	4.6	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
5	2.9	B-CELL PHONE IN USE*
132	75.9	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
56	32.2	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
1	0.6	1	0.6	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
2	1.1	0	0.0	15-GUARDRAIL
18	10.3	3	1.7	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
2	1.1	5	2.9	18-DIKE OR CURB
0	0.0	0	2.9	19-TRAFFIC ISLAND
0	0.0	1	0.6	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
2	1.1	3	1.7	23-CUT SLOPE OR EMBANKMENT
1	0.6	3	1.7	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	2	1.1	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
1	0.6	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
3	1.7	10	5.7	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
1	0.6	0	0.0	99- NO OBJECT INVOLVED
143	82.2	23	13.2	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
27	15.5	172	98.9	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
19	10.9	3	1.7	B-BEYOND SHLDER DRIVERS LEFT
1	0.6	1	0.6	C-LEFT SHOULDER AREA
118	67.8	22	12.6	D-LEFT LANE
1	0.6	0	0.0	E-INTERIOR LANES
40	23.0	5	2.9	F-RIGHT LANE
1	0.6	3	1.7	G-RIGHT SHOULDER AREA
7	4.0	8	4.6	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
3	1.7	1	0.6	<-NOT STATED
30	17.2	172	98.9	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
163	93.7	0	0.0	A-HAD NOT BEEN DRINKING
8	4.6	0	0.0	B-HBD - UNDER INFLUENCE
2	1.1	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
1	0.6	2	1.1	E-UNDER DRUG INFLUENCE
1	0.6	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
14	8.0	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	1	0.6	I-FATIGUE
12	6.9	173	99.4	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  05/15/2020
REFERENCE DATE    :  05/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' R006431-051220_SCR-001-N-8.355 to 9.153
                     '
EVENT ID          :
                     4225199
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 008.355     TO:  05-SCR-001 009.154
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC NOT IN 1,2,3,4,6
1 2 AND 514 -  SIDE OF HIGHWAY = N
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-N-8.355 to 9.153 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
139	1	53	85	1	75

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
32	23.0	1
83	59.7	2
20	14.4	3
4	2.9	>3

<---LINES CODED---> NUMBER	PCT	CODE
25	18.0	1
88	63.3	2
22	15.8	3
3	2.2	4
1	0.7	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
1	0.7	00- 12 MID.
2	1.4	01- 1 A.M.
3	2.2	02- 2 A.M.
0	0.0	03- 3 A.M.
2	1.4	04- 4 A.M.
4	2.9	05- 5 A.M.
8	5.8	06- 6 A.M.
24	17.3	07- 7 A.M.
17	12.2	08- 8 A.M.
15	10.8	09- 9 A.M.
2	1.4	10- 10 A.M.
11	7.9	11- 11 A.M.
5	3.6	12- 12 NOON
6	4.3	13- 1 P.M.
2	1.4	14- 2 P.M.
8	5.8	15- 3 P.M.
8	5.8	16- 4 P.M.
7	5.0	17- 5 P.M.
3	2.2	18- 6 P.M.
3	2.2	19- 7 P.M.
4	2.9	20- 8 P.M.
1	0.7	21- 9 P.M.
3	2.2	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
139	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
139	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
8	5.8	2010
4	2.9	2011
15	10.8	2012
17	12.2	2013
9	6.5	2014
14	10.1	2015
25	18.0	2016
12	8.6	2017
17	12.2	2018
18	12.9	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
14	10.1	01-JANUARY
9	6.5	02-FEBRUARY
20	14.4	03-MARCH
9	6.5	04-APRIL
11	7.9	05-MAY
12	8.6	06-JUNE
10	7.2	07-JULY
11	7.9	08-AUGUST
9	6.5	09-SEPTEMBER
10	7.2	10-OCTOBER
15	10.8	11-NOVEMBER
9	6.5	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
8	5.8	1-SUNDAY
21	15.1	2-MONDAY
30	21.6	3-TUESDAY
20	14.4	4-WEDNESDAY
29	20.9	5-THURSDAY
20	14.4	6-FRIDAY
11	7.9	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-N-8.355 to 9.153 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
6	4.3	1-INFLUENCE ALCOHOL
7	5.0	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
21	15.1	4-IMPROPER TURN
81	58.3	5-SPEEDING
14	10.1	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
9	6.5	C-OTHER THAN DRIVER
1	0.7	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
18	12.9	B-SIDESWIPE
84	60.4	C-REAR END
0	0.0	D-BROADSIDE
29	20.9	E-HIT OBJECT
3	2.2	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
5	3.6	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
1	0.7	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
4	2.9	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
134	96.4	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
99	71.2	A-CLEAR
35	25.2	B-CLOUDY
5	3.6	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<---------- LIGHTING ---------->

NUMBER	PCT	CODE
109	78.4	A-DAY LIGHT
4	2.9	B-DUSK/DAWN
11	7.9	C-DARK-STREET LIGHT
15	10.8	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
123	88.5	A-DRY
16	11.5	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
4	2.9	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
135	97.1	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
139	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
0	0.0	3-RAMP ENTRY
0	0.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
139	100.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-N-8.355 to 9.153 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
125	89.9	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
9	6.5	C-MOTORCYCLE
35	25.2	D-PICKUP/PANEL TRUCK
3	2.2	E-PICKUP/PANEL W/TRAILER
2	1.4	F-TRUCK/TRUCK TRACTOR
4	2.9	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
2	1.4	I-OTHER BUS
1	0.7	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
9	6.5	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
2	1.4	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
1	0.7	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
5	3.6	X-ANIMAL - DEER
1	0.7	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
43	30.9	A-STOPPED
103	74.1	B-PROCEDED STRAIGHT
20	14.4	C-RAN OFF ROAD
1	0.7	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
38	27.3	H-SLOWING, STOPPING
2	1.4	I-PASS OTHER VEHICLE
13	9.4	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
4	2.9	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
2	1.4	O-PARKED
4	2.9	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
4	2.9	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
2	1.4	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
6	4.3	0	0.0	4-IMPROPER TURN
0	0.0	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
1	0.7	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
4	2.9	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
1	0.7	0	0.0	E-VISION OBSCUREMENT
7	5.0	0	0.0	F-INATTENTION - OTHER
23	16.5	4	2.9	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
1	0.7	0	0.0	I-PREVIOUS COLLISION
1	0.7	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
1	0.7	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
111	79.9	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
1	0.7	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
11	7.9	139	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
138	99.3	N-N, NE, NW BOUND
2	1.4	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND
9	6.5	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
2	1.4	B-CELL PHONE IN USE*
108	77.7	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
45	32.4	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	2	1.4	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
1	0.7	0	0.0	15-GUARDRAIL
16	11.5	6	4.3	16-MEDIAN BARRIER
1	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
5	3.6	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
2	1.4	5	3.6	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	1	0.7	26-DRAINAGE DITCH
0	0.0	1	0.7	27-FENCE
0	0.0	1	0.7	28-TREES
0	0.0	1	0.7	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
2	1.4	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
2	1.4	13	9.4	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	1	0.7	99- NO OBJECT INVOLVED
110	79.1	24	17.3	V1 THRU V9 VEHICLE 1 TO 9
1	0.7	0	0.0	<< NOT STATED
31	22.3	137	98.6	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
17	12.2	6	4.3	B-BEYOND SHLDER DRIVERS LEFT
1	0.7	0	0.0	C-LEFT SHOULDER AREA
78	56.1	27	19.4	D-LEFT LANE
3	2.2	0	0.0	E-INTERIOR LANES
42	30.2	4	2.9	F-RIGHT LANE
2	1.4	3	2.2	G-RIGHT SHOULDER AREA
9	6.5	9	6.5	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
1	0.7	0	0.0	<-NOT STATED
35	25.2	137	98.6	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
128	92.1	0	0.0	A-HAD NOT BEEN DRINKING
5	3.6	0	0.0	B-HBD - UNDER INFLUENCE
1	0.7	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
1	0.7	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	1	0.7	F-OTHER PHYSICAL IMPAIRMENT
13	9.4	0	0.0	G-IMPAIRMENT NOT KNOWN
3	2.2	0	0.0	H-NOT APPLICABLE
2	1.4	1	0.7	I-FATIGUE
10	7.2	139	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

REPORT DATE	:	05/15/2020
REFERENCE DATE	:	05/15/2020
SUBMITTOR	:	T5MXIONG
REPORT TITLE	:	' R006431-051220_SCR-001-N-9.153 to 10.535 '
EVENT ID	:	4225203

LOCATION CRITERIA:

FROM: 05-SCR-001 009.153 TO: 05-SCR-001 010.536

SELECTION CRITERIA:

1 1 AND 515 - INTRS/RAMP ACC LOC NOT IN 1,2,3,4,6
1 2 AND 514 - SIDE OF HIGHWAY = N

Accidents Date Range:

From -- 01/01/2010 To -- 12/31/2019

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-N-9.153 to 10.535 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
402	0	150	252	0	224

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
53	13.2	1
256	63.7	2
64	15.9	3
29	7.2	>3

<---LINES CODED---> NUMBER	PCT	CODE
47	11.7	1
260	64.7	2
66	16.4	3
26	6.5	4
2	0.5	5
1	0.2	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
3	0.7	00- 12 MID.
2	0.5	01- 1 A.M.
3	0.7	02- 2 A.M.
2	0.5	03- 3 A.M.
7	1.7	04- 4 A.M.
10	2.5	05- 5 A.M.
14	3.5	06- 6 A.M.
31	7.7	07- 7 A.M.
37	9.2	08- 8 A.M.
32	8.0	09- 9 A.M.
30	7.5	10- 10 A.M.
42	10.4	11- 11 A.M.
42	10.4	12- 12 NOON
45	11.2	13- 1 P.M.
18	4.5	14- 2 P.M.
15	3.7	15- 3 P.M.
12	3.0	16- 4 P.M.
31	7.7	17- 5 P.M.
5	1.2	18- 6 P.M.
6	1.5	19- 7 P.M.
4	1.0	20- 8 P.M.
4	1.0	21- 9 P.M.
3	0.7	22- 10 P.M.
4	1.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
402	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
402	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
24	6.0	2010
23	5.7	2011
35	8.7	2012
27	6.7	2013
37	9.2	2014
48	11.9	2015
60	14.9	2016
57	14.2	2017
42	10.4	2018
49	12.2	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
25	6.2	01-JANUARY
20	5.0	02-FEBRUARY
36	9.0	03-MARCH
40	10.0	04-APRIL
30	7.5	05-MAY
50	12.4	06-JUNE
47	11.7	07-JULY
39	9.7	08-AUGUST
42	10.4	09-SEPTEMBER
26	6.5	10-OCTOBER
29	7.2	11-NOVEMBER
18	4.5	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
74	18.4	1-SUNDAY
48	11.9	2-MONDAY
47	11.7	3-TUESDAY
69	17.2	4-WEDNESDAY
61	15.2	5-THURSDAY
60	14.9	6-FRIDAY
43	10.7	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-N-9.153 to 10.535 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
16	4.0	1-INFLUENCE ALCOHOL
33	8.2	2-FOLLOW TOO CLOSE
1	0.2	3-FAILURE TO YIELD
32	8.0	4-IMPROPER TURN
273	67.9	5-SPEEDING
33	8.2	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
12	3.0	C-OTHER THAN DRIVER
2	0.5	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
2	0.5	A-HEAD-ON
39	9.7	B-SIDESWIPE
299	74.4	C-REAR END
5	1.2	D-BROADSIDE
49	12.2	E-HIT OBJECT
1	0.2	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
7	1.7	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
3	0.7	C-OBSTRUCTION ON ROAD
21	5.2	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
1	0.2	G-OTHER
376	93.5	H-NO UNUSUAL CONDITION
1	0.2	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
318	79.1	A-CLEAR
67	16.7	B-CLOUDY
14	3.5	C-RAINING
0	0.0	D-SNOWING
1	0.2	E-FOG
1	0.2	F-OTHER
0	0.0	G-WIND
1	0.2	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
334	83.1	A-DAY LIGHT
11	2.7	B-DUSK/DAWN
17	4.2	C-DARK-STREET LIGHT
39	9.7	D-DARK-NO STREET LIGHT
1	0.2	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
361	89.8	A-DRY
41	10.2	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
18	4.5	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
1	0.2	C-CONTROLS OBSCURED
383	95.3	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
402	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
0	0.0	3-RAMP ENTRY
0	0.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
402	100.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-N-9.153 to 10.535 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
378	94.0	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
15	3.7	C-MOTORCYCLE
105	26.1	D-PICKUP/PANEL TRUCK
5	1.2	E-PICKUP/PANEL W/TRAILER
5	1.2	F-TRUCK/TRUCK TRACTOR
4	1.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
2	0.5	I-OTHER BUS
1	0.2	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
13	3.2	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
2	0.5	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
6	1.5	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
174	43.3	A-STOPPED
340	84.6	B-PROCEDED STRAIGHT
15	3.7	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
1	0.2	F-MAKING U TURN
1	0.2	G-BACKING
131	32.6	H-SLOWING, STOPPING
6	1.5	I-PASS OTHER VEHICLE
28	7.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
13	3.2	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
1	0.2	O-PARKED
5	1.2	P-MERGING
3	0.7	Q-TRAVEL WRONG WAY
4	1.0	R-OTHER
1	0.2	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
2	0.5	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
11	2.7	0	0.0	4-IMPROPER TURN
21	5.2	1	0.2	5-SPEEDING
5	1.2	0	0.0	6-OTHER VIOLATIONS
5	1.2	0	0.0	A-CELL PHONE* (INATTN)
1	0.2	0	0.0	B-ELECTRC EQUIP*(INATTN)
2	0.5	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	1	0.2	E-VISION OBSCUREMENT
21	5.2	0	0.0	F-INATTENTION - OTHER
57	14.2	8	2.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
2	0.5	1	0.2	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
6	1.5	0	0.0	K-DEFECT VEHICLE EQUIP
3	0.7	0	0.0	L-UNINVOLVED VEHICLE
3	0.7	0	0.0	M-OTHER
335	83.3	4	1.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
2	0.5	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
12	3.0	399	99.3	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
401	99.8	N-N, NE, NW BOUND
4	1.0	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
1	0.2	W-WESTBOUND
8	2.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
4	1.0	B-CELL PHONE IN USE*
318	79.1	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
109	27.1	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-N-9.153 to 10.535 '

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
1	0.2	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	1	0.2	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
13	3.2	3	0.7	15-GUARDRAIL
19	4.7	21	5.2	16-MEDIAN BARRIER
3	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
0	0.0	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
3	0.7	2	0.5	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
2	0.5	4	1.0	28-TREES
1	0.2	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
4	1.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
1	0.2	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
1	0.2	20	5.0	44-OVERTURNED
1	0.2	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
2	0.5	2	0.5	99- NO OBJECT INVOLVED
352	87.6	94	23.4	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
98	24.4	402	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
2	0.5	1	0.2	A-BEYOND MEDIAN OR STRIPE-LEFT
19	4.7	21	5.2	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
281	69.9	83	20.6	D-LEFT LANE
4	1.0	2	0.5	E-INTERIOR LANES
103	25.6	27	6.7	F-RIGHT LANE
2	0.5	0	0.0	G-RIGHT SHOULDER AREA
25	6.2	9	2.2	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
4	1.0	2	0.5	<-NOT STATED
99	24.6	402	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
388	96.5	0	0.0	A-HAD NOT BEEN DRINKING
12	3.0	0	0.0	B-HBD - UNDER INFLUENCE
2	0.5	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
3	0.7	1	0.2	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
33	8.2	0	0.0	G-IMPAIRMENT NOT KNOWN
1	0.2	0	0.0	H-NOT APPLICABLE
0	0.0	1	0.2	I-FATIGUE
13	3.2	402	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  09/16/2020
REFERENCE DATE    :  09/16/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' SCR-001-S-10.535 to 11.951 '
EVENT ID          :  4256945
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 010.535     TO:  05-SCR-001 011.951
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC NOT IN 1,2,3,4,6
1 2 AND 514 -  SIDE OF HIGHWAY = S
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-S-10.535 to 11.951 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
169	0	71	98	0	98

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
49	29.0	1
95	56.2	2
20	11.8	3
5	3.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
44	26.0	1
97	57.4	2
23	13.6	3
5	3.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
4	2.4	00- 12 MID.
4	2.4	01- 1 A.M.
9	5.3	02- 2 A.M.
1	0.6	03- 3 A.M.
2	1.2	04- 4 A.M.
3	1.8	05- 5 A.M.
5	3.0	06- 6 A.M.
6	3.6	07- 7 A.M.
2	1.2	08- 8 A.M.
7	4.1	09- 9 A.M.
3	1.8	10- 10 A.M.
0	0.0	11- 11 A.M.
4	2.4	12- 12 NOON
4	2.4	13- 1 P.M.
5	3.0	14- 2 P.M.
10	5.9	15- 3 P.M.
19	11.2	16- 4 P.M.
30	17.8	17- 5 P.M.
21	12.4	18- 6 P.M.
8	4.7	19- 7 P.M.
4	2.4	20- 8 P.M.
9	5.3	21- 9 P.M.
8	4.7	22- 10 P.M.
0	0.0	23- 11 P.M.
1	0.6	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
169	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
169	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
11	6.5	2010
12	7.1	2011
15	8.9	2012
17	10.1	2013
18	10.7	2014
19	11.2	2015
14	8.3	2016
29	17.2	2017
16	9.5	2018
18	10.7	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
17	10.1	01-JANUARY
9	5.3	02-FEBRUARY
11	6.5	03-MARCH
5	3.0	04-APRIL
13	7.7	05-MAY
20	11.8	06-JUNE
19	11.2	07-JULY
16	9.5	08-AUGUST
15	8.9	09-SEPTEMBER
16	9.5	10-OCTOBER
12	7.1	11-NOVEMBER
16	9.5	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
20	11.8	1-SUNDAY
19	11.2	2-MONDAY
30	17.8	3-TUESDAY
35	20.7	4-WEDNESDAY
16	9.5	5-THURSDAY
30	17.8	6-FRIDAY
19	11.2	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-S-10.535 to 11.951 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
14	8.3	1-INFLUENCE ALCOHOL
5	3.0	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
31	18.3	4-IMPROPER TURN
93	55.0	5-SPEEDING
16	9.5	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
8	4.7	C-OTHER THAN DRIVER
2	1.2	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
1	0.6	A-HEAD-ON
20	11.8	B-SIDESWIPE
92	54.4	C-REAR END
1	0.6	D-BROADSIDE
40	23.7	E-HIT OBJECT
11	6.5	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
4	2.4	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
10	5.9	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
159	94.1	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
141	83.4	A-CLEAR
15	8.9	B-CLOUDY
12	7.1	C-RAINING
0	0.0	D-SNOWING
1	0.6	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
97	57.4	A-DAY LIGHT
5	3.0	B-DUSK/DAWN
28	16.6	C-DARK-STREET LIGHT
39	23.1	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
150	88.8	A-DRY
19	11.2	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
10	5.9	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
159	94.1	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
169	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
0	0.0	3-RAMP ENTRY
0	0.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
169	100.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-S-10.535 to 11.951 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
154	91.1	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
8	4.7	C-MOTORCYCLE
32	18.9	D-PICKUP/PANEL TRUCK
1	0.6	E-PICKUP/PANEL W/TRAILER
1	0.6	F-TRUCK/TRUCK TRACTOR
3	1.8	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
2	1.2	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
10	5.9	M-OTHER-MOTOR VEH
1	0.6	N-OTHER-NON-MOTOR VEH
4	2.4	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
1	0.6	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
4	2.4	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
35	20.7	A-STOPPED
128	75.7	B-PROCEDED STRAIGHT
27	16.0	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
1	0.6	G-BACKING
48	28.4	H-SLOWING, STOPPING
1	0.6	I-PASS OTHER VEHICLE
11	6.5	J-CHANGING LANES
0	0.0	K-PARKING
1	0.6	L-ENTER FROM SHLDR
8	4.7	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
1	0.6	O-PARKED
3	1.8	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
8	4.7	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
16	9.5	0	0.0	4-IMPROPER TURN
1	0.6	0	0.0	5-SPEEDING
1	0.6	0	0.0	6-OTHER VIOLATIONS
3	1.8	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
1	0.6	0	0.0	E-VISION OBSCUREMENT
8	4.7	2	1.2	F-INATTENTION - OTHER
11	6.5	1	0.6	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
136	80.5	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
11	6.5	168	99.4	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
4	2.4	N-N, NE, NW BOUND
167	98.8	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND
10	5.9	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
5	3.0	B-CELL PHONE IN USE*
120	71.0	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
65	38.5	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-S-10.535 to 11.951 '

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
2	1.2	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
4	2.4	1	0.6	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
1	0.6	2	1.2	15-GUARDRAIL
16	9.5	10	5.9	16-MEDIAN BARRIER
0	0.6	1	0.6	17-WALL (EXCEPT SOUND WALL)
0	0.0	2	1.2	18-DIKE OR CURB
0	0.0	0	1.2	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
8	4.7	1	0.6	23-CUT SLOPE OR EMBANKMENT
0	0.0	2	1.2	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
1	0.6	1	0.6	26-DRAINAGE DITCH
2	1.2	5	3.0	27-FENCE
4	2.4	6	3.6	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
1	0.6	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
1	0.6	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	2	1.2	43-OTHER OBJECT OFF ROAD
6	3.6	20	11.8	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
2	1.2	2	1.2	99- NO OBJECT INVOLVED
121	71.6	24	14.2	V1 THRU V9 VEHICLE 1 TO 9
1	0.6	0	0.0	<< NOT STATED
30	17.8	168	99.4	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
15	8.9	11	6.5	B-BEYOND SHLDER DRIVERS LEFT
4	2.4	0	0.0	C-LEFT SHOULDER AREA
83	49.1	18	10.7	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
58	34.3	15	8.9	F-RIGHT LANE
0	0.0	4	2.4	G-RIGHT SHOULDER AREA
25	14.8	20	11.8	H-BEYOND SHLDER DRIVERS RIGHT
1	0.6	0	0.0	I-GORE AREA
1	0.6	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
1	0.6	1	0.6	<-NOT STATED
34	20.1	168	99.4	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
148	87.6	0	0.0	A-HAD NOT BEEN DRINKING
13	7.7	0	0.0	B-HBD - UNDER INFLUENCE
5	3.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
1	0.6	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
21	12.4	0	0.0	G-IMPAIRMENT NOT KNOWN
1	0.6	0	0.0	H-NOT APPLICABLE
0	0.0	5	3.0	I-FATIGUE
12	7.1	165	97.6	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

REPORT DATE	:	05/15/2020
REFERENCE DATE	:	05/15/2020
SUBMITTOR	:	T5MXIONG
REPORT TITLE	:	' R006431-051220_SCR-001-S-R7.702 to 8.355 '
EVENT ID	:	4225216

LOCATION CRITERIA:

FROM: 05-SCR-001 R007.702 TO: 05-SCR-001 008.356

SELECTION CRITERIA:

1 1 AND 515 - INTRS/RAMP ACC LOC NOT IN 1,2,3,4,6
1 2 AND 514 - SIDE OF HIGHWAY = S

Accidents Date Range:

From -- 01/01/2010 To -- 12/31/2019

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-S-R7.702 to 8.355 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
65	0	15	50	0	16

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
36	55.4	1
29	44.6	2
0	0.0	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
31	47.7	1
34	52.3	2
0	0.0	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
4	6.2	00- 12 MID.
2	3.1	01- 1 A.M.
2	3.1	02- 2 A.M.
1	1.5	03- 3 A.M.
2	3.1	04- 4 A.M.
1	1.5	05- 5 A.M.
5	7.7	06- 6 A.M.
5	7.7	07- 7 A.M.
4	6.2	08- 8 A.M.
2	3.1	09- 9 A.M.
2	3.1	10- 10 A.M.
3	4.6	11- 11 A.M.
1	1.5	12- 12 NOON
5	7.7	13- 1 P.M.
2	3.1	14- 2 P.M.
3	4.6	15- 3 P.M.
3	4.6	16- 4 P.M.
3	4.6	17- 5 P.M.
6	9.2	18- 6 P.M.
1	1.5	19- 7 P.M.
2	3.1	20- 8 P.M.
2	3.1	21- 9 P.M.
4	6.2	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
65	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
65	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
3	4.6	2010
3	4.6	2011
6	9.2	2012
5	7.7	2013
10	15.4	2014
6	9.2	2015
13	20.0	2016
6	9.2	2017
5	7.7	2018
8	12.3	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
9	13.8	01-JANUARY
1	1.5	02-FEBRUARY
6	9.2	03-MARCH
9	13.8	04-APRIL
2	3.1	05-MAY
3	4.6	06-JUNE
4	6.2	07-JULY
9	13.8	08-AUGUST
7	10.8	09-SEPTEMBER
6	9.2	10-OCTOBER
6	9.2	11-NOVEMBER
3	4.6	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
6	9.2	1-SUNDAY
9	13.8	2-MONDAY
6	9.2	3-TUESDAY
16	24.6	4-WEDNESDAY
6	9.2	5-THURSDAY
15	23.1	6-FRIDAY
7	10.8	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-S-R7.702 to 8.355 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
8	12.3	1-INFLUENCE ALCOHOL
2	3.1	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
17	26.2	4-IMPROPER TURN
22	33.8	5-SPEEDING
6	9.2	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
10	15.4	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
9	13.8	B-SIDESWIPE
19	29.2	C-REAR END
1	1.5	D-BROADSIDE
31	47.7	E-HIT OBJECT
2	3.1	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
2	3.1	H-OTHER
1	1.5	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
1	1.5	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
63	96.9	H-NO UNUSUAL CONDITION
1	1.5	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
39	60.0	A-CLEAR
20	30.8	B-CLOUDY
5	7.7	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
1	1.5	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
38	58.5	A-DAY LIGHT
4	6.2	B-DUSK/DAWN
6	9.2	C-DARK-STREET LIGHT
16	24.6	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
1	1.5	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
49	75.4	A-DRY
15	23.1	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
1	1.5	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
0	0.0	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
64	98.5	D-NO CONTROLS PRESENT
1	1.5	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
65	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
0	0.0	3-RAMP ENTRY
0	0.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
65	100.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-S-R7.702 to 8.355 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
60	92.3	A-PASNGR CAR/STA WAGON
1	1.5	B-PASNGR CAR W/TRAILER
1	1.5	C-MOTORCYCLE
12	18.5	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
3	4.6	F-TRUCK/TRUCK TRACTOR
1	1.5	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
2	3.1	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
5	7.7	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
2	3.1	A-STOPPED
36	55.4	B-PROCEDED STRAIGHT
19	29.2	C-RAN OFF ROAD
1	1.5	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
11	16.9	H-SLOWING, STOPPING
1	1.5	I-PASS OTHER VEHICLE
9	13.8	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
4	6.2	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
1	1.5	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
7	10.8	0	0.0	4-IMPROPER TURN
8	12.3	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
3	4.6	0	0.0	F-INATTENTION - OTHER
1	1.5	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	1	1.5	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
51	78.5	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
7	10.8	64	98.5	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
0	0.0	N-N, NE, NW BOUND
65	100.0	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND
5	7.7	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
1	1.5	B-CELL PHONE IN USE*
49	75.4	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
24	36.9	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-S-R7.702 to 8.355 '

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	1	1.5	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
1	1.5	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
4	6.2	0	0.0	15-GUARDRAIL
11	16.9	3	4.6	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
3	4.6	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
1	1.5	1	1.5	22-GUIDEPOST, CULVERT, PM
2	3.1	2	3.1	23-CUT SLOPE OR EMBANKMENT
1	1.5	2	3.1	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
3	4.6	2	3.1	27-FENCE
0	0.0	3	4.6	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
2	3.1	0	0.0	42-OTHER OBJECT ON ROAD
1	1.5	2	3.1	43-OTHER OBJECT OFF ROAD
2	3.1	3	4.6	44-OVERTURNED
1	1.5	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
1	1.5	0	0.0	99- NO OBJECT INVOLVED
33	50.8	1	1.5	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
2	3.1	65	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
13	20.0	3	4.6	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	1	1.5	C-LEFT SHOULDER AREA
30	46.2	1	1.5	D-LEFT LANE
1	1.5	0	0.0	E-INTERIOR LANES
12	18.5	0	0.0	F-RIGHT LANE
1	1.5	0	0.0	G-RIGHT SHOULDER AREA
16	24.6	12	18.5	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
1	1.5	0	0.0	<-NOT STATED
4	6.2	65	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
55	84.6	0	0.0	A-HAD NOT BEEN DRINKING
7	10.8	0	0.0	B-HBD - UNDER INFLUENCE
2	3.1	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	1	1.5	E-UNDER DRUG INFLUENCE
0	0.0	2	3.1	F-OTHER PHYSICAL IMPAIRMENT
5	7.7	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
1	1.5	1	1.5	I-FATIGUE
7	10.8	62	95.4	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  05/15/2020
REFERENCE DATE    :  05/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' R006431-051220_SCR-001-S-8.355 to 9.153
                     '
EVENT ID          :
                     4225210
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 008.355     TO:  05-SCR-001 009.154
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC NOT IN 1,2,3,4,6
1 2 AND 514 -  SIDE OF HIGHWAY = S
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-S-8.355 to 9.153 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
52	1	13	38	1	16

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
23	44.2	1
26	50.0	2
2	3.8	3
1	1.9	>3

<---LINES CODED---> NUMBER	PCT	CODE
18	34.6	1
25	48.1	2
8	15.4	3
1	1.9	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
2	3.8	01- 1 A.M.
1	1.9	02- 2 A.M.
0	0.0	03- 3 A.M.
1	1.9	04- 4 A.M.
1	1.9	05- 5 A.M.
2	3.8	06- 6 A.M.
5	9.6	07- 7 A.M.
2	3.8	08- 8 A.M.
2	3.8	09- 9 A.M.
0	0.0	10- 10 A.M.
2	3.8	11- 11 A.M.
3	5.8	12- 12 NOON
2	3.8	13- 1 P.M.
5	9.6	14- 2 P.M.
4	7.7	15- 3 P.M.
4	7.7	16- 4 P.M.
4	7.7	17- 5 P.M.
2	3.8	18- 6 P.M.
1	1.9	19- 7 P.M.
1	1.9	20- 8 P.M.
3	5.8	21- 9 P.M.
2	3.8	22- 10 P.M.
3	5.8	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
52	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
52	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
1	1.9	2010
2	3.8	2011
7	13.5	2012
7	13.5	2013
3	5.8	2014
10	19.2	2015
4	7.7	2016
5	9.6	2017
8	15.4	2018
5	9.6	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
4	7.7	01-JANUARY
2	3.8	02-FEBRUARY
3	5.8	03-MARCH
3	5.8	04-APRIL
3	5.8	05-MAY
5	9.6	06-JUNE
4	7.7	07-JULY
7	13.5	08-AUGUST
3	5.8	09-SEPTEMBER
6	11.5	10-OCTOBER
5	9.6	11-NOVEMBER
7	13.5	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
2	3.8	1-SUNDAY
12	23.1	2-MONDAY
4	7.7	3-TUESDAY
8	15.4	4-WEDNESDAY
9	17.3	5-THURSDAY
12	23.1	6-FRIDAY
5	9.6	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-S-8.355 to 9.153 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
6	11.5	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
10	19.2	4-IMPROPER TURN
18	34.6	5-SPEEDING
9	17.3	6-OTHER VIOLATIONS
1	1.9	B-IMPROPER DRIVING
8	15.4	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
7	13.5	B-SIDESWIPE
14	26.9	C-REAR END
1	1.9	D-BROADSIDE
18	34.6	E-HIT OBJECT
2	3.8	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
10	19.2	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
1	1.9	C-OBSTRUCTION ON ROAD
3	5.8	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
1	1.9	G-OTHER
47	90.4	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
42	80.8	A-CLEAR
7	13.5	B-CLOUDY
3	5.8	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
35	67.3	A-DAY LIGHT
3	5.8	B-DUSK/DAWN
2	3.8	C-DARK-STREET LIGHT
12	23.1	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
46	88.5	A-DRY
6	11.5	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
4	7.7	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
48	92.3	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
52	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
0	0.0	3-RAMP ENTRY
0	0.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
52	100.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-S-8.355 to 9.153 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
48	92.3	A-PASNGR CAR/STA WAGON
1	1.9	B-PASNGR CAR W/TRAILER
3	5.8	C-MOTORCYCLE
9	17.3	D-PICKUP/PANEL TRUCK
1	1.9	E-PICKUP/PANEL W/TRAILER
1	1.9	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
3	5.8	M-OTHER-MOTOR VEH
1	1.9	N-OTHER-NON-MOTOR VEH
3	5.8	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
7	13.5	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
4	7.7	A-STOPPED
38	73.1	B-PROCEDED STRAIGHT
8	15.4	C-RAN OFF ROAD
1	1.9	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
1	1.9	G-BACKING
7	13.5	H-SLOWING, STOPPING
1	1.9	I-PASS OTHER VEHICLE
8	15.4	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
0	0.0	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
2	3.8	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
5	9.6	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
5	9.6	0	0.0	4-IMPROPER TURN
4	7.7	0	0.0	5-SPEEDING
1	1.9	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	1	1.9	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
0	0.0	0	0.0	F-INATTENTION - OTHER
1	1.9	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
1	1.9	0	0.0	I-PREVIOUS COLLISION
1	1.9	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
44	84.6	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
12	23.1	51	98.1	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
0	0.0	N-N, NE, NW BOUND
52	100.0	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
1	1.9	W-WESTBOUND
10	19.2	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
1	1.9	B-CELL PHONE IN USE*
40	76.9	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
23	44.2	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-S-8.355 to 9.153 '

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
2	3.8	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
1	1.9	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
1	1.9	0	0.0	15-GUARDRAIL
5	9.6	1	1.9	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
0	0.0	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
1	1.9	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	1	1.9	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
1	1.9	0	0.0	26-DRAINAGE DITCH
1	1.9	2	3.8	27-FENCE
1	1.9	1	1.9	28-TREES
0	0.0	2	3.8	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
3	5.8	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
2	3.8	4	7.7	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
2	3.8	0	0.0	99- NO OBJECT INVOLVED
32	61.5	6	11.5	V1 THRU V9 VEHICLE 1 TO 9
1	1.9	0	0.0	<< NOT STATED
8	15.4	52	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
7	13.5	2	3.8	B-BEYOND SHLDER DRIVERS LEFT
1	1.9	0	0.0	C-LEFT SHOULDER AREA
19	36.5	6	11.5	D-LEFT LANE
2	3.8	0	0.0	E-INTERIOR LANES
21	40.4	2	3.8	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
7	13.5	6	11.5	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
1	1.9	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
2	3.8	0	0.0	<-NOT STATED
12	23.1	52	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
46	88.5	0	0.0	A-HAD NOT BEEN DRINKING
6	11.5	0	0.0	B-HBD - UNDER INFLUENCE
3	5.8	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	1	1.9	F-OTHER PHYSICAL IMPAIRMENT
5	9.6	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
1	1.9	0	0.0	I-FATIGUE
12	23.1	51	98.1	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

REPORT DATE	:	05/15/2020
REFERENCE DATE	:	05/15/2020
SUBMITTOR	:	T5MXIONG
REPORT TITLE	:	' R006431-051220_SCR-001-S-9.153 to 10.535 '
EVENT ID	:	4225205

LOCATION CRITERIA:

FROM: 05-SCR-001 009.153 TO: 05-SCR-001 010.536

SELECTION CRITERIA:

1 1 AND 515 - INTRS/RAMP ACC LOC NOT IN 1,2,3,4,6
1 2 AND 514 - SIDE OF HIGHWAY = S

Accidents Date Range:

From -- 01/01/2010 To -- 12/31/2019

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-S-9.153 to 10.535 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
133	0	42	91	0	56

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
55	41.4	1
64	48.1	2
14	10.5	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
50	37.6	1
69	51.9	2
14	10.5	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
3	2.3	00- 12 MID.
2	1.5	01- 1 A.M.
3	2.3	02- 2 A.M.
4	3.0	03- 3 A.M.
1	0.8	04- 4 A.M.
7	5.3	05- 5 A.M.
4	3.0	06- 6 A.M.
4	3.0	07- 7 A.M.
3	2.3	08- 8 A.M.
0	0.0	09- 9 A.M.
3	2.3	10- 10 A.M.
3	2.3	11- 11 A.M.
5	3.8	12- 12 NOON
4	3.0	13- 1 P.M.
5	3.8	14- 2 P.M.
12	9.0	15- 3 P.M.
14	10.5	16- 4 P.M.
21	15.8	17- 5 P.M.
10	7.5	18- 6 P.M.
12	9.0	19- 7 P.M.
5	3.8	20- 8 P.M.
3	2.3	21- 9 P.M.
2	1.5	22- 10 P.M.
3	2.3	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
133	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
133	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
6	4.5	2010
6	4.5	2011
9	6.8	2012
15	11.3	2013
16	12.0	2014
12	9.0	2015
14	10.5	2016
22	16.5	2017
12	9.0	2018
21	15.8	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
8	6.0	01-JANUARY
9	6.8	02-FEBRUARY
18	13.5	03-MARCH
11	8.3	04-APRIL
11	8.3	05-MAY
12	9.0	06-JUNE
13	9.8	07-JULY
8	6.0	08-AUGUST
9	6.8	09-SEPTEMBER
12	9.0	10-OCTOBER
4	3.0	11-NOVEMBER
18	13.5	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
14	10.5	1-SUNDAY
16	12.0	2-MONDAY
19	14.3	3-TUESDAY
22	16.5	4-WEDNESDAY
19	14.3	5-THURSDAY
20	15.0	6-FRIDAY
23	17.3	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-S-9.153 to 10.535 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
20	15.0	1-INFLUENCE ALCOHOL
3	2.3	2-FOLLOW TOO CLOSE
1	0.8	3-FAILURE TO YIELD
34	25.6	4-IMPROPER TURN
55	41.4	5-SPEEDING
10	7.5	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
10	7.5	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
14	10.5	B-SIDESWIPE
56	42.1	C-REAR END
1	0.8	D-BROADSIDE
53	39.8	E-HIT OBJECT
3	2.3	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
6	4.5	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
1	0.8	C-OBSTRUCTION ON ROAD
3	2.3	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
129	97.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
99	74.4	A-CLEAR
21	15.8	B-CLOUDY
13	9.8	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
87	65.4	A-DAY LIGHT
1	0.8	B-DUSK/DAWN
5	3.8	C-DARK-STREET LIGHT
40	30.1	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
107	80.5	A-DRY
25	18.8	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
1	0.8	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
4	3.0	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
129	97.0	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
133	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
0	0.0	3-RAMP ENTRY
0	0.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
133	100.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-S-9.153 to 10.535 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
124	93.2	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
35	26.3	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
1	0.8	F-TRUCK/TRUCK TRACTOR
2	1.5	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
1	0.8	L-BICYCLE
7	5.3	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
4	3.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
16	12.0	A-STOPPED
86	64.7	B-PROCEDED STRAIGHT
23	17.3	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
1	0.8	G-BACKING
35	26.3	H-SLOWING, STOPPING
1	0.8	I-PASS OTHER VEHICLE
5	3.8	J-CHANGING LANES
0	0.0	K-PARKING
2	1.5	L-ENTER FROM SHLDR
15	11.3	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
4	3.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
9	6.8	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
16	12.0	0	0.0	4-IMPROPER TURN
5	3.8	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
1	0.8	0	0.0	B-ELECTRC EQUIP*(INATTN)
2	1.5	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
1	0.8	0	0.0	E-VISION OBSCUREMENT
5	3.8	0	0.0	F-INATTENTION - OTHER
6	4.5	2	1.5	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
1	0.8	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
1	0.8	0	0.0	K-DEFECT VEHICLE EQUIP
2	1.5	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
103	77.4	1	0.8	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
7	5.3	132	99.2	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
2	1.5	N-N, NE, NW BOUND
131	98.5	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND
4	3.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
1	0.8	B-CELL PHONE IN USE*
90	67.7	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
52	39.1	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-S-9.153 to 10.535 '

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
1	0.8	0	0.0	01-SIDE OF BRIDGE RAILING
1	0.8	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
1	0.8	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
2	1.5	2	1.5	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
14	10.5	4	3.0	15-GUARDRAIL
19	14.3	10	7.5	16-MEDIAN BARRIER
1	0.8	1	0.8	17-WALL (EXCEPT SOUND WALL)
2	1.5	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
1	0.8	0	0.0	22-GUIDEPOST, CULVERT, PM
5	3.8	2	1.5	23-CUT SLOPE OR EMBANKMENT
0	0.0	4	3.0	24-OVER EMBANKMENT
0	0.0	1	0.8	25-IN WATER
1	0.8	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
1	0.8	7	5.3	28-TREES
0	0.0	1	0.8	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
4	3.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	12	9.0	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
1	0.8	0	0.0	98-UNKNOWN OBJECT STRUCK
1	0.8	0	0.0	99- NO OBJECT INVOLVED
78	58.6	18	13.5	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
21	15.8	130	97.7	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
20	15.0	11	8.3	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
59	44.4	13	9.8	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
35	26.3	8	6.0	F-RIGHT LANE
2	1.5	2	1.5	G-RIGHT SHOULDER AREA
29	21.8	16	12.0	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
2	1.5	0	0.0	<-NOT STATED
21	15.8	130	97.7	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
109	82.0	0	0.0	A-HAD NOT BEEN DRINKING
18	13.5	0	0.0	B-HBD - UNDER INFLUENCE
1	0.8	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	1	0.8	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
14	10.5	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
8	6.0	133	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  09/15/2020
REFERENCE DATE    :  09/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' SCR-001-N-10.535 to 12.304 '
EVENT ID          :  4256724
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 010.535     TO:  05-SCR-001 012.305
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC NOT IN 1,2,3,4,6
1 2 AND 514 -  SIDE OF HIGHWAY = N
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-N-10.535 to 12.304 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
269	1	92	176	1	124

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
53	19.7	1
172	63.9	2
33	12.3	3
11	4.1	>3

<---LINES CODED---> NUMBER	PCT	CODE
42	15.6	1
179	66.5	2
36	13.4	3
10	3.7	4
2	0.7	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
3	1.1	00- 12 MID.
4	1.5	01- 1 A.M.
3	1.1	02- 2 A.M.
2	0.7	03- 3 A.M.
0	0.0	04- 4 A.M.
7	2.6	05- 5 A.M.
3	1.1	06- 6 A.M.
12	4.5	07- 7 A.M.
35	13.0	08- 8 A.M.
29	10.8	09- 9 A.M.
16	5.9	10- 10 A.M.
22	8.2	11- 11 A.M.
33	12.3	12- 12 NOON
20	7.4	13- 1 P.M.
18	6.7	14- 2 P.M.
15	5.6	15- 3 P.M.
10	3.7	16- 4 P.M.
17	6.3	17- 5 P.M.
3	1.1	18- 6 P.M.
3	1.1	19- 7 P.M.
1	0.4	20- 8 P.M.
4	1.5	21- 9 P.M.
5	1.9	22- 10 P.M.
3	1.1	23- 11 P.M.
1	0.4	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
269	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
269	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
16	5.9	2010
29	10.8	2011
28	10.4	2012
19	7.1	2013
23	8.6	2014
28	10.4	2015
39	14.5	2016
25	9.3	2017
30	11.2	2018
32	11.9	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
17	6.3	01-JANUARY
17	6.3	02-FEBRUARY
20	7.4	03-MARCH
20	7.4	04-APRIL
15	5.6	05-MAY
29	10.8	06-JUNE
31	11.5	07-JULY
23	8.6	08-AUGUST
36	13.4	09-SEPTEMBER
28	10.4	10-OCTOBER
21	7.8	11-NOVEMBER
12	4.5	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
41	15.2	1-SUNDAY
27	10.0	2-MONDAY
34	12.6	3-TUESDAY
37	13.8	4-WEDNESDAY
50	18.6	5-THURSDAY
41	15.2	6-FRIDAY
39	14.5	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-N-10.535 to 12.304 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
11	4.1	1-INFLUENCE ALCOHOL
17	6.3	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
27	10.0	4-IMPROPER TURN
172	63.9	5-SPEEDING
27	10.0	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
14	5.2	C-OTHER THAN DRIVER
1	0.4	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
25	9.3	B-SIDESWIPE
178	66.2	C-REAR END
3	1.1	D-BROADSIDE
52	19.3	E-HIT OBJECT
3	1.1	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
8	3.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
2	0.7	C-OBSTRUCTION ON ROAD
3	1.1	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
1	0.4	G-OTHER
263	97.8	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
221	82.2	A-CLEAR
38	14.1	B-CLOUDY
9	3.3	C-RAINING
0	0.0	D-SNOWING
1	0.4	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
224	83.3	A-DAY LIGHT
7	2.6	B-DUSK/DAWN
10	3.7	C-DARK-STREET LIGHT
28	10.4	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
249	92.6	A-DRY
20	7.4	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
13	4.8	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
256	95.2	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
269	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
0	0.0	3-RAMP ENTRY
0	0.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
269	100.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-N-10.535 to 12.304 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
255	94.8	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
7	2.6	C-MOTORCYCLE
69	25.7	D-PICKUP/PANEL TRUCK
2	0.7	E-PICKUP/PANEL W/TRAILER
6	2.2	F-TRUCK/TRUCK TRACTOR
2	0.7	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
1	0.4	I-OTHER BUS
1	0.4	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
6	2.2	M-OTHER-MOTOR VEH
2	0.7	N-OTHER-NON-MOTOR VEH
3	1.1	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
1	0.4	V-DISMOUNT PEDESTRIAN
1	0.4	W-ANIMAL - LIVESTOCK
10	3.7	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
86	32.0	A-STOPPED
214	79.6	B-PROCEDED STRAIGHT
27	10.0	C-RAN OFF ROAD
1	0.4	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
1	0.4	G-BACKING
87	32.3	H-SLOWING, STOPPING
3	1.1	I-PASS OTHER VEHICLE
23	8.6	J-CHANGING LANES
0	0.0	K-PARKING
2	0.7	L-ENTER FROM SHLDR
9	3.3	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
4	1.5	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
8	3.0	R-OTHER
1	0.4	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
2	0.7	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
13	4.8	0	0.0	4-IMPROPER TURN
7	2.6	0	0.0	5-SPEEDING
2	0.7	0	0.0	6-OTHER VIOLATIONS
2	0.7	1	0.4	A-CELL PHONE* (INATTN)
1	0.4	0	0.0	B-ELECTRC EQUIP*(INATTN)
6	2.2	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
1	0.4	0	0.0	E-VISION OBSCUREMENT
19	7.1	1	0.4	F-INATTENTION - OTHER
27	10.0	4	1.5	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
2	0.7	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
1	0.4	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
3	1.1	1	0.4	M-OTHER
224	83.3	3	1.1	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
2	0.7	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
1	0.4	0	0.0	X-READING* (INATTN)
20	7.4	265	98.5	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
267	99.3	N-N, NE, NW BOUND
5	1.9	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND
15	5.6	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
6	2.2	B-CELL PHONE IN USE*
211	78.4	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
78	29.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-N-10.535 to 12.304 '

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
1	0.4	5	1.9	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
4	1.5	2	0.7	15-GUARDRAIL
17	6.3	19	7.1	16-MEDIAN BARRIER
2	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
0	0.0	1	0.4	18-DIKE OR CURB
0	0.0	0	0.4	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
1	0.4	0	0.0	23-CUT SLOPE OR EMBANKMENT
6	2.2	3	1.1	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	1	0.4	26-DRAINAGE DITCH
0	0.0	4	1.5	27-FENCE
3	1.1	10	3.7	28-TREES
3	1.1	1	0.4	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
1	0.4	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
1	0.4	0	0.0	42-OTHER OBJECT ON ROAD
3	1.1	1	0.4	43-OTHER OBJECT OFF ROAD
3	1.1	15	5.6	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
1	0.4	0	0.0	46-CRASH CUSHION (OTHER)
2	0.7	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
1	0.4	2	0.7	99- NO OBJECT INVOLVED
220	81.8	45	16.7	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
55	20.4	263	97.8	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	1	0.4	A-BEYOND MEDIAN OR STRIPE-LEFT
18	6.7	21	7.8	B-BEYOND SHLDER DRIVERS LEFT
2	0.7	0	0.0	C-LEFT SHOULDER AREA
158	58.7	36	13.4	D-LEFT LANE
4	1.5	2	0.7	E-INTERIOR LANES
78	29.0	15	5.6	F-RIGHT LANE
0	0.0	2	0.7	G-RIGHT SHOULDER AREA
28	10.4	19	7.1	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
2	0.7	1	0.4	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
4	1.5	1	0.4	<-NOT STATED
59	21.9	263	97.8	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
250	92.9	0	0.0	A-HAD NOT BEEN DRINKING
10	3.7	0	0.0	B-HBD - UNDER INFLUENCE
1	0.4	0	0.0	C-HBD - NOT UNDER INFLUENCE
1	0.4	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	3	1.1	E-UNDER DRUG INFLUENCE
0	0.0	1	0.4	F-OTHER PHYSICAL IMPAIRMENT
19	7.1	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
1	0.4	5	1.9	I-FATIGUE
24	8.9	261	97.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22130

Table B - Selective Accident Rate Calculation

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

OTM22130

Table B - Selective Accident Rate Calculation

Report Parameters-

Event ID: 4225145

Request Name: R006431-051220_SCR-001-7.7

Ref Date: 05/15/2020

Request-& Line	LOC	DIR	LSC	Route/Location	Begin Date	End Date	Rate Type	Out Seq	Override Rates Rate	Override Rates Inj%	Override Rates Fat%	Override ADT Main	Override ADT Cross	Req. Type	Com-bine?	Excl Ramp?
1 7	R	T	I	05 SCR 001 008.184 - 05 SCR 001 009.462	01-JAN-10	31-DEC-19	N	L						N	N	N

Event Log:

Job id is : 157058 Accidents Table B Request R006431-051220_SCR-001-7.7 Submitted by T5MXIONG
05 SCR 001 8.184 - 05 SCR 001 9.462 01/01/2010 TO 12/31/2019

Location Description	Rate Group (RUS)	No. of Accidents / Significance Tot	Fat	Inj	F+I	Multi Veh	Wet	Dark	Pers Kld Inj	ADT Main X-St	Total MV+ or MVM	Accident Rates Actual Fat	Actual F+I	Actual Tot	Average Fat	Average F+I	Average Tot
05 SCR 001 008.184 001/NB OFF TO FREEDOM BL	R 10	13	0	3	3	8	6	4	0	1.6	5.81 +	0.000	.52	2.24	0.008	.39	1.03
0001-0007 2010-01-01 2019-12-31 *120 mo.*	U	**H97**					**H99**		3	.0							
05 SCR 001 008.271 001/SB ON FR FREEDOM BL	R 12	2	0	1	1	1	0	2	0	1.6	5.77 +	0.000	.17	.35	0.002	.23	.63
0001-0007 2010-01-01 2019-12-31 *120 mo.*	U								2	.0							
05 SCR 001 008.494 001/NB ON FR FREEDOM BL	R 12	16	0	5	5	9	6	4	0	6.9	25.24 +	0.000	.20	.63	0.002	.23	.63
0001-0007 2010-01-01 2019-12-31 *120 mo.*	U								8	.0							
05 SCR 001 008.611 001/SB OFF TO FREEDOM BL	R 10	14	0	4	4	10	2	4	0	5.6	20.46 +	0.000	.20	.68	0.008	.39	1.03
0001-0007 2010-01-01 2019-12-31 *120 mo.*	U								7	.0							
05 SCR 001 009.011 001/SB ON FR RIO DEL MAR	R 12	8	0	1	1	8	1	1	0	3.9	14.21 +	0.000	.07	.56	0.002	.23	.63
0001-0007 2010-01-01 2019-12-31 *120 mo.*	U								2	.0							
05 SCR 001 009.024 001/NB OFF TO RIO DEL MAR	R 10	12	1	0	1	10	2	2	1	4.4	16.22 +	0.062	.06	.74	0.008	.39	1.03
0001-0007 2010-01-01 2019-12-31 *120 mo.*	U								0	.0							
05 SCR 001 009.264 001/NB ON FR RIO DEL MAR	R 12	18	0	5	5	16	0	6	0	5.6	20.27 +	0.000	.25	.89	0.002	.23	.63
0001-0007 2010-01-01 2019-12-31 *120 mo.*	U								8	.0							
05 SCR 001 009.461 001/SB OFF TO RIO DEL MAR	R 10	12	0	4	4	10	2	4	0	6.3	23.15 +	0.000	.17	.52	0.008	.39	1.03
0001-0007 2010-01-01 2019-12-31 *120 mo.*	U								5	.0							

Accident Rates expressed as: **# of accidents / Million vehicle miles**

+ denotes that **Million Vehicles** (MV) used in accident rates instead (for intersections and ramps).

For Ramps RUS only considers R(Rural) U(Urban)

California Department of Transportation

OTM22130

Table B - Selective Accident Rate Calculation

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

OTM22130

Table B - Selective Accident Rate Calculation

Report Parameters-

Event ID: 4243469

Request Name: R005443-020720_SCR-001-AUX

Ref Date: 07/23/2020

Request-& Line	LOC	DIR	LSC	Route/Location	Begin Date	End Date	Rate Type	Out Seq	Override Rates Rate	Override Rates Inj%	Override Rates Fat%	Override ADT Main	Override ADT Cross	Req. Type	Com-bine?	Excl Ramp?
4 3	R	T	I	05 SCR 001 010.381 - 05 SCR 001 013.284	01-JAN-10	31-DEC-19	N	L						N	N	N

Event Log:

Job id is : 168680 Accidents Table B Request R005443-020720_SCR-001-AUX Submitted by T5MXIONG
05 SCR 001 10.381 - 05 SCR 001 13.284 01/01/2010 TO 12/31/2019

Location Description	Rate Group (RUS)	No. of Accidents / Significance Tot	Fat	Inj	F+I	Multi Veh	Wet	Dark	Pers Kld Inj	ADT Main X-St	Total MV+ or MVM	Accident Rates Actual Fat	Actual F+I	Actual Tot	Average Fat	Average F+I	Average Tot
05 SCR 001 010.381 001/SB ON FR EB STATE PARK	R 20	8	1	4	5	2	2	5	1	1.7	6.35 +	0.157	.79	1.26	0.004	.24	.70
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U	**H90**		**H90**	**H97**			**H95**	4	.0							
05 SCR 001 010.394 001/NB OFF SEACLIFF BEACH	R 10	9	0	1	1	5	1	3	0	6.2	22.68 +	0.000	.04	.40	0.008	.39	1.03
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								1	.0							
05 SCR 001 010.504 001/NB ON FR EB STATE PARK	R 40	6	0	2	2	2	0	1	0	2.4	8.66 +	0.000	.23	.69	0.002	.24	.75
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								2	.0							
05 SCR 001 010.561 001/SB ON FR WB STATE PARK	R 40	7	0	1	1	4	1	2	0	4.2	15.45 +	0.000	.06	.45	0.002	.24	.75
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								2	.0							
05 SCR 001 010.684 001/NB ON FR WB STATE PARK	R 20	14	0	6	6	10	0	0	0	6.0	21.73 +	0.000	.28	.64	0.004	.24	.70
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								6	.0							
05 SCR 001 010.711 001/SB OFF TO STATE PARK DR	R 10	17	0	8	8	8	1	8	0	7.9	28.78 +	0.000	.28	.59	0.008	.39	1.03
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								11	.0							
05 SCR 001 011.951 001/SB ON FROM PARK AVE	R 12	3	0	1	1	2	0	0	0	5.1	18.63 +	0.000	.05	.16	0.002	.23	.63
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								1	.0							
05 SCR 001 011.964 001/NB OFF TO PARK AVE	R 10	12	0	2	2	9	0	2	0	4.2	15.45 +	0.000	.13	.78	0.008	.39	1.03
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								2	.0							
05 SCR 001 012.271 001/SB OFF TO PARK AVE	R 10	10	0	4	4	8	3	3	0	6.8	24.72 +	0.000	.16	.40	0.008	.39	1.03
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								4	.0							
05 SCR 001 012.304 001/NB ON FR PARK AVE	R 12	8	0	3	3	7	1	1	0	7.5	27.54 +	0.000	.11	.29	0.002	.23	.63
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								6	.0							
05 SCR 001 013.131 001/SB ON FR BAY/PORTER	R 12	2	0	0	0	2	0	1	0	5.8	21.15 +	0.000	.00	.10	0.002	.23	.63
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								0	.0							
05 SCR 001 013.154 001/NBOFF TO BAY/PORTER	R 10	7	0	2	2	5	0	1	0	5.2	19.14 +	0.000	.10	.37	0.008	.39	1.03
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								3	.0							

Accident Rates expressed as: **# of accidents / Million vehicle miles**

+ denotes that **Million Vehicles** (MV) used in accident rates instead (for intersections and ramps).

For Ramps RUS only considers R(Rural) U(Urban)

Location Description	Rate Group (RUS)	No. of Accidents / Significance Tot	Fat	Inj	F+I	Multi Veh	Wet	Dark	Pers Kld Inj	ADT Main X-St	Total MV+ or MVM	Accident Rates Actual Fat	F+I	Average Tot	Fat	F+I	Tot
05 SCR 001 013.271 001/SBOFF TO BAY/PORTER	R 10	12	0	6	6	8	2	3	0	9.4	34.29 +	0.000	.18	.35	0.008	.39	1.03
0004-0003 2010-01-01 2019-12-31 *120 mo.*	U								6	.0							

Accident Rates expressed as: **# of accidents / Million vehicle miles**

+ denotes that **Million Vehicles** (MV) used in accident rates instead (for intersections and ramps).

For Ramps RUS only considers R(Rural) U(Urban)

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

REPORT DATE	:	05/15/2020
REFERENCE DATE	:	05/15/2020
SUBMITTOR	:	T5MXIONG
REPORT TITLE	:	' R006431-051220_SCR-001-Ramp-8.184 '
EVENT ID	:	4225271

LOCATION CRITERIA:

FROM: 05-SCR-001 008.184 TO: 05-SCR-001 008.185

SELECTION CRITERIA:

1 1 AND 515 - INTRS/RAMP ACC LOC IN 1,2,3,4

Accidents Date Range:

From -- 01/01/2010 To -- 12/31/2019

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-8.184 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
13	0	3	10	0	3

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
5	38.5	1
8	61.5	2
0	0.0	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
5	38.5	1
8	61.5	2
0	0.0	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
1	7.7	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
1	7.7	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
2	15.4	07- 7 A.M.
1	7.7	08- 8 A.M.
0	0.0	09- 9 A.M.
0	0.0	10- 10 A.M.
0	0.0	11- 11 A.M.
1	7.7	12- 12 NOON
0	0.0	13- 1 P.M.
1	7.7	14- 2 P.M.
3	23.1	15- 3 P.M.
1	7.7	16- 4 P.M.
0	0.0	17- 5 P.M.
1	7.7	18- 6 P.M.
0	0.0	19- 7 P.M.
1	7.7	20- 8 P.M.
0	0.0	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
13	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
13	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
1	7.7	2010
0	0.0	2011
1	7.7	2012
2	15.4	2013
0	0.0	2014
0	0.0	2015
2	15.4	2016
1	7.7	2017
2	15.4	2018
4	30.8	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
2	15.4	01-JANUARY
2	15.4	02-FEBRUARY
0	0.0	03-MARCH
1	7.7	04-APRIL
1	7.7	05-MAY
0	0.0	06-JUNE
0	0.0	07-JULY
2	15.4	08-AUGUST
1	7.7	09-SEPTEMBER
2	15.4	10-OCTOBER
1	7.7	11-NOVEMBER
1	7.7	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
1	7.7	1-SUNDAY
0	0.0	2-MONDAY
4	30.8	3-TUESDAY
2	15.4	4-WEDNESDAY
1	7.7	5-THURSDAY
3	23.1	6-FRIDAY
2	15.4	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-8.184 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
1	7.7	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
1	7.7	3-FAILURE TO YIELD
3	23.1	4-IMPROPER TURN
6	46.2	5-SPEEDING
2	15.4	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
1	7.7	B-SIDESWIPE
6	46.2	C-REAR END
1	7.7	D-BROADSIDE
5	38.5	E-HIT OBJECT
0	0.0	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
13	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
4	30.8	A-CLEAR
4	30.8	B-CLOUDY
5	38.5	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
9	69.2	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
3	23.1	C-DARK-STREET LIGHT
1	7.7	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
7	53.8	A-DRY
6	46.2	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
3	23.1	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
10	76.9	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
13	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
3	23.1	1-RAMP INTERSECTION (EXIT)
5	38.5	2-RAMP
1	7.7	3-RAMP ENTRY
4	30.8	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-Ramp-8.184 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
12	92.3	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
1	7.7	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
1	7.7	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
0	0.0	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
5	38.5	A-STOPPED
10	76.9	B-PROCEDED STRAIGHT
3	23.1	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
1	7.7	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
1	7.7	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
2	15.4	0	0.0	4-IMPROPER TURN
0	0.0	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
0	0.0	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
1	7.7	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
10	76.9	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	13	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
9	69.2	N-N, NE, NW BOUND
0	0.0	S-S, SE, SW BOUND
4	30.8	E-EASTBOUND
1	7.7	W-WESTBOUND
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
7	53.8	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
6	46.2	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
3	23.1	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
1	7.7	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
1	7.7	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	2	15.4	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	0	0.0	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
8	61.5	0	0.0	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
0	0.0	13	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
3	23.1	0	0.0	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
4	30.8	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
6	46.2	0	0.0	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
1	7.7	2	15.4	H-BEYOND SHLDER DRIVERS RIGHT
1	7.7	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
0	0.0	13	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
11	84.6	0	0.0	A-HAD NOT BEEN DRINKING
1	7.7	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
1	7.7	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	13	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

REPORT DATE	:	05/15/2020
REFERENCE DATE	:	05/15/2020
SUBMITTOR	:	T5MXIONG
REPORT TITLE	:	' R006431-051220_SCR-001-Ramp-8.271 '
EVENT ID	:	4225273

LOCATION CRITERIA:

FROM: 05-SCR-001 008.271 TO: 05-SCR-001 008.272

SELECTION CRITERIA:

1 1 AND 515 - INTRS/RAMP ACC LOC IN 1,2,3,4

Accidents Date Range:

From -- 01/01/2010 To -- 12/31/2019

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-8.271 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
2	0	1	1	0	2

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
1	50.0	1
1	50.0	2
0	0.0	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
1	50.0	1
1	50.0	2
0	0.0	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
0	0.0	01- 1 A.M.
1	50.0	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
0	0.0	07- 7 A.M.
0	0.0	08- 8 A.M.
0	0.0	09- 9 A.M.
0	0.0	10- 10 A.M.
0	0.0	11- 11 A.M.
0	0.0	12- 12 NOON
0	0.0	13- 1 P.M.
0	0.0	14- 2 P.M.
0	0.0	15- 3 P.M.
0	0.0	16- 4 P.M.
0	0.0	17- 5 P.M.
1	50.0	18- 6 P.M.
0	0.0	19- 7 P.M.
0	0.0	20- 8 P.M.
0	0.0	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
2	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
2	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
0	0.0	2010
0	0.0	2011
1	50.0	2012
0	0.0	2013
0	0.0	2014
0	0.0	2015
1	50.0	2016
0	0.0	2017
0	0.0	2018
0	0.0	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
1	50.0	01-JANUARY
0	0.0	02-FEBRUARY
0	0.0	03-MARCH
0	0.0	04-APRIL
0	0.0	05-MAY
0	0.0	06-JUNE
1	50.0	07-JULY
0	0.0	08-AUGUST
0	0.0	09-SEPTEMBER
0	0.0	10-OCTOBER
0	0.0	11-NOVEMBER
0	0.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
1	50.0	1-SUNDAY
0	0.0	2-MONDAY
0	0.0	3-TUESDAY
0	0.0	4-WEDNESDAY
0	0.0	5-THURSDAY
1	50.0	6-FRIDAY
0	0.0	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-8.271 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
1	50.0	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
0	0.0	4-IMPROPER TURN
0	0.0	5-SPEEDING
1	50.0	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
0	0.0	B-SIDESWIPE
1	50.0	C-REAR END
0	0.0	D-BROADSIDE
1	50.0	E-HIT OBJECT
0	0.0	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
2	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
2	100.0	A-CLEAR
0	0.0	B-CLOUDY
0	0.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
0	0.0	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
2	100.0	C-DARK-STREET LIGHT
0	0.0	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
2	100.0	A-DRY
0	0.0	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
1	50.0	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
1	50.0	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
2	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
1	50.0	3-RAMP ENTRY
1	50.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-Ramp-8.271 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
2	100.0	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
0	0.0	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
0	0.0	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
1	50.0	A-STOPPED
1	50.0	B-PROCEDED STRAIGHT
0	0.0	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
0	0.0	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
1	50.0	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
1	50.0	0	0.0	4-IMPROPER TURN
0	0.0	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
1	50.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
0	0.0	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
1	50.0	1	50.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	2	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
0	0.0	N-N, NE, NW BOUND
2	100.0	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
2	100.0	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
1	50.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
0	0.0	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
0	0.0	1	50.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	1	50.0	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	0	0.0	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
1	50.0	0	0.0	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
0	0.0	2	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
0	0.0	0	0.0	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
1	50.0	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
0	0.0	0	0.0	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
1	50.0	1	50.0	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
0	0.0	2	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
1	50.0	0	0.0	A-HAD NOT BEEN DRINKING
1	50.0	0	0.0	B-HBD - UNDER INFLUENCE
1	50.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
0	0.0	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	2	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  05/15/2020
REFERENCE DATE    :  05/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' R006431-051220_SCR-001-Ramp-8.494 '
EVENT ID          :  4225275
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 008.494     TO:  05-SCR-001 008.495
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC IN 1,2,3,4
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-8.494 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
16	0	5	11	0	8

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
7	43.8	1
9	56.3	2
0	0.0	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
6	37.5	1
10	62.5	2
0	0.0	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
1	6.3	00- 12 MID.
1	6.3	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
1	6.3	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
4	25.0	07- 7 A.M.
2	12.5	08- 8 A.M.
1	6.3	09- 9 A.M.
1	6.3	10- 10 A.M.
0	0.0	11- 11 A.M.
1	6.3	12- 12 NOON
0	0.0	13- 1 P.M.
1	6.3	14- 2 P.M.
0	0.0	15- 3 P.M.
1	6.3	16- 4 P.M.
0	0.0	17- 5 P.M.
1	6.3	18- 6 P.M.
0	0.0	19- 7 P.M.
0	0.0	20- 8 P.M.
1	6.3	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
16	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
16	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
4	25.0	2010
1	6.3	2011
1	6.3	2012
1	6.3	2013
1	6.3	2014
3	18.8	2015
0	0.0	2016
2	12.5	2017
1	6.3	2018
2	12.5	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
2	12.5	01-JANUARY
0	0.0	02-FEBRUARY
1	6.3	03-MARCH
0	0.0	04-APRIL
1	6.3	05-MAY
3	18.8	06-JUNE
0	0.0	07-JULY
0	0.0	08-AUGUST
5	31.3	09-SEPTEMBER
1	6.3	10-OCTOBER
3	18.8	11-NOVEMBER
0	0.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
3	18.8	1-SUNDAY
1	6.3	2-MONDAY
2	12.5	3-TUESDAY
2	12.5	4-WEDNESDAY
3	18.8	5-THURSDAY
5	31.3	6-FRIDAY
0	0.0	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-8.494 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
1	6.3	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
5	31.3	3-FAILURE TO YIELD
3	18.8	4-IMPROPER TURN
5	31.3	5-SPEEDING
2	12.5	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
1	6.3	A-HEAD-ON
1	6.3	B-SIDESWIPE
4	25.0	C-REAR END
2	12.5	D-BROADSIDE
5	31.3	E-HIT OBJECT
2	12.5	F-OVERTURN
1	6.3	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
16	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
10	62.5	A-CLEAR
4	25.0	B-CLOUDY
2	12.5	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
12	75.0	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
3	18.8	C-DARK-STREET LIGHT
1	6.3	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
10	62.5	A-DRY
6	37.5	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
2	12.5	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
14	87.5	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
16	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
1	6.3	1-RAMP INTERSECTION (EXIT)
7	43.8	2-RAMP
3	18.8	3-RAMP ENTRY
5	31.3	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-Ramp-8.494 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
13	81.3	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
4	25.0	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
1	6.3	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
1	6.3	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
3	18.8	A-STOPPED
7	43.8	B-PROCEDED STRAIGHT
5	31.3	C-RAN OFF ROAD
1	6.3	D-MAKING RIGHT TURN
4	25.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
1	6.3	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
1	6.3	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
1	6.3	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
2	12.5	0	0.0	4-IMPROPER TURN
0	0.0	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
1	6.3	0	0.0	F-INATTENTION - OTHER
1	6.3	0	0.0	G-STOP & GO TRAFFIC
1	6.3	1	6.3	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
1	6.3	0	0.0	M-OTHER
11	68.8	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	15	93.8	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
13	81.3	N-N, NE, NW BOUND
0	0.0	S-S, SE, SW BOUND
3	18.8	E-EASTBOUND
4	25.0	W-WESTBOUND
1	6.3	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
10	62.5	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
6	37.5	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	1	6.3	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	1	6.3	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	1	6.3	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
3	18.8	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
1	6.3	3	18.8	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	1	6.3	27-FENCE
1	6.3	2	12.5	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
2	12.5	1	6.3	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
9	56.3	1	6.3	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
2	12.5	15	93.8	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
2	12.5	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
4	25.0	4	25.0	B-BEYOND SHLDER DRIVERS LEFT
1	6.3	0	0.0	C-LEFT SHOULDER AREA
1	6.3	1	6.3	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
8	50.0	0	0.0	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
2	12.5	2	12.5	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
2	12.5	15	93.8	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
14	87.5	0	0.0	A-HAD NOT BEEN DRINKING
1	6.3	0	0.0	B-HBD - UNDER INFLUENCE
1	6.3	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
1	6.3	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	1	6.3	I-FATIGUE
1	6.3	15	93.8	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  05/15/2020
REFERENCE DATE    :  05/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' R006431-051220_SCR-001-Ramp-8.611 '
EVENT ID          :  4225277
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 008.611     TO:  05-SCR-001 008.612
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC IN 1,2,3,4
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-8.611 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
14	0	4	10	0	7

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
4	28.6	1
7	50.0	2
3	21.4	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
2	14.3	1
9	64.3	2
3	21.4	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
1	7.1	01- 1 A.M.
1	7.1	02- 2 A.M.
0	0.0	03- 3 A.M.
1	7.1	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
0	0.0	07- 7 A.M.
1	7.1	08- 8 A.M.
0	0.0	09- 9 A.M.
0	0.0	10- 10 A.M.
1	7.1	11- 11 A.M.
1	7.1	12- 12 NOON
1	7.1	13- 1 P.M.
0	0.0	14- 2 P.M.
2	14.3	15- 3 P.M.
1	7.1	16- 4 P.M.
1	7.1	17- 5 P.M.
3	21.4	18- 6 P.M.
0	0.0	19- 7 P.M.
0	0.0	20- 8 P.M.
0	0.0	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
14	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
14	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
1	7.1	2010
1	7.1	2011
3	21.4	2012
3	21.4	2013
0	0.0	2014
2	14.3	2015
0	0.0	2016
3	21.4	2017
1	7.1	2018
0	0.0	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
1	7.1	01-JANUARY
0	0.0	02-FEBRUARY
1	7.1	03-MARCH
2	14.3	04-APRIL
1	7.1	05-MAY
1	7.1	06-JUNE
1	7.1	07-JULY
1	7.1	08-AUGUST
3	21.4	09-SEPTEMBER
0	0.0	10-OCTOBER
2	14.3	11-NOVEMBER
1	7.1	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
1	7.1	1-SUNDAY
1	7.1	2-MONDAY
1	7.1	3-TUESDAY
3	21.4	4-WEDNESDAY
0	0.0	5-THURSDAY
5	35.7	6-FRIDAY
3	21.4	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-8.611 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
5	35.7	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
1	7.1	3-FAILURE TO YIELD
2	14.3	4-IMPROPER TURN
4	28.6	5-SPEEDING
0	0.0	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
2	14.3	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
2	14.3	B-SIDESWIPE
7	50.0	C-REAR END
1	7.1	D-BROADSIDE
2	14.3	E-HIT OBJECT
1	7.1	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
1	7.1	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
14	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
12	85.7	A-CLEAR
2	14.3	B-CLOUDY
0	0.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
10	71.4	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
3	21.4	C-DARK-STREET LIGHT
1	7.1	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
12	85.7	A-DRY
2	14.3	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
4	28.6	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
10	71.4	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
14	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
8	57.1	1-RAMP INTERSECTION (EXIT)
4	28.6	2-RAMP
0	0.0	3-RAMP ENTRY
2	14.3	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-Ramp-8.611 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
11	78.6	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
4	28.6	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
2	14.3	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
1	7.1	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
2	14.3	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
5	35.7	A-STOPPED
10	71.4	B-PROCEDED STRAIGHT
2	14.3	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
1	7.1	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
3	21.4	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
1	7.1	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
1	7.1	0	0.0	4-IMPROPER TURN
3	21.4	0	0.0	5-SPEEDING
1	7.1	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
0	0.0	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
13	92.9	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
2	14.3	14	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
1	7.1	N-N, NE, NW BOUND
12	85.7	S-S, SE, SW BOUND
3	21.4	E-EASTBOUND
0	0.0	W-WESTBOUND
2	14.3	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
13	92.9	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
4	28.6	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
1	7.1	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
0	0.0	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
0	0.0	1	7.1	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	0	0.0	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
1	7.1	0	0.0	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
12	85.7	3	21.4	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
3	21.4	14	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
1	7.1	0	0.0	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
4	28.6	1	7.1	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
9	64.3	2	14.3	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
1	7.1	1	7.1	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
5	35.7	14	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
13	92.9	0	0.0	A-HAD NOT BEEN DRINKING
4	28.6	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	1	7.1	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
1	7.1	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	1	7.1	I-FATIGUE
3	21.4	14	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  05/15/2020
REFERENCE DATE    :  05/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' R006431-051220_SCR-001-Ramp-9.011 '
EVENT ID          :  4225281
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 009.011     TO:  05-SCR-001 009.012
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC IN 1,2,3,4
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-9.011 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
8	0	1	7	0	2

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
0	0.0	1
7	87.5	2
1	12.5	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
0	0.0	1
7	87.5	2
1	12.5	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
0	0.0	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
1	12.5	07- 7 A.M.
0	0.0	08- 8 A.M.
0	0.0	09- 9 A.M.
1	12.5	10- 10 A.M.
0	0.0	11- 11 A.M.
1	12.5	12- 12 NOON
1	12.5	13- 1 P.M.
2	25.0	14- 2 P.M.
0	0.0	15- 3 P.M.
0	0.0	16- 4 P.M.
1	12.5	17- 5 P.M.
0	0.0	18- 6 P.M.
0	0.0	19- 7 P.M.
0	0.0	20- 8 P.M.
1	12.5	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
8	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
8	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
0	0.0	2010
2	25.0	2011
0	0.0	2012
1	12.5	2013
4	50.0	2014
1	12.5	2015
0	0.0	2016
0	0.0	2017
0	0.0	2018
0	0.0	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
0	0.0	01-JANUARY
1	12.5	02-FEBRUARY
0	0.0	03-MARCH
1	12.5	04-APRIL
2	25.0	05-MAY
0	0.0	06-JUNE
0	0.0	07-JULY
1	12.5	08-AUGUST
2	25.0	09-SEPTEMBER
1	12.5	10-OCTOBER
0	0.0	11-NOVEMBER
0	0.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
1	12.5	1-SUNDAY
1	12.5	2-MONDAY
1	12.5	3-TUESDAY
2	25.0	4-WEDNESDAY
1	12.5	5-THURSDAY
2	25.0	6-FRIDAY
0	0.0	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-9.011 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
0	0.0	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
1	12.5	3-FAILURE TO YIELD
0	0.0	4-IMPROPER TURN
4	50.0	5-SPEEDING
3	37.5	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
2	25.0	A-HEAD-ON
1	12.5	B-SIDESWIPE
5	62.5	C-REAR END
0	0.0	D-BROADSIDE
0	0.0	E-HIT OBJECT
0	0.0	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
8	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
6	75.0	A-CLEAR
1	12.5	B-CLOUDY
1	12.5	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
7	87.5	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
1	12.5	C-DARK-STREET LIGHT
0	0.0	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
7	87.5	A-DRY
1	12.5	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
7	87.5	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
1	12.5	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
8	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
2	25.0	1-RAMP INTERSECTION (EXIT)
1	12.5	2-RAMP
0	0.0	3-RAMP ENTRY
5	62.5	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-Ramp-9.011 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
8	100.0	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
2	25.0	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
1	12.5	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
4	50.0	A-STOPPED
8	100.0	B-PROCEDED STRAIGHT
0	0.0	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
2	25.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
1	12.5	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
1	12.5	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
0	0.0	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
0	0.0	0	0.0	4-IMPROPER TURN
0	0.0	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
1	12.5	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
0	0.0	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
8	100.0	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	8	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
2	25.0	N-N, NE, NW BOUND
3	37.5	S-S, SE, SW BOUND
3	37.5	E-EASTBOUND
2	25.0	W-WESTBOUND
1	12.5	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
8	100.0	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
1	12.5	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
0	0.0	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	0	0.0	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	0	0.0	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
8	100.0	1	12.5	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
1	12.5	8	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
0	0.0	0	0.0	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
3	37.5	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
8	100.0	1	12.5	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
0	0.0	0	0.0	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
1	12.5	8	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
8	100.0	0	0.0	A-HAD NOT BEEN DRINKING
0	0.0	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
1	12.5	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	8	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  05/15/2020
REFERENCE DATE    :  05/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' R006431-051220_SCR-001-Ramp-9.024 '
EVENT ID          :  4225285
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 009.024     TO:  05-SCR-001 009.025
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC IN 1,2,3,4
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-9.024 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
12	1	0	11	1	0

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
2	16.7	1
10	83.3	2
0	0.0	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
2	16.7	1
10	83.3	2
0	0.0	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
1	8.3	00- 12 MID.
0	0.0	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
2	16.7	07- 7 A.M.
0	0.0	08- 8 A.M.
0	0.0	09- 9 A.M.
1	8.3	10- 10 A.M.
1	8.3	11- 11 A.M.
1	8.3	12- 12 NOON
0	0.0	13- 1 P.M.
0	0.0	14- 2 P.M.
0	0.0	15- 3 P.M.
3	25.0	16- 4 P.M.
0	0.0	17- 5 P.M.
2	16.7	18- 6 P.M.
1	8.3	19- 7 P.M.
0	0.0	20- 8 P.M.
0	0.0	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
12	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
12	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
1	8.3	2010
1	8.3	2011
1	8.3	2012
2	16.7	2013
1	8.3	2014
0	0.0	2015
2	16.7	2016
1	8.3	2017
0	0.0	2018
3	25.0	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
1	8.3	01-JANUARY
0	0.0	02-FEBRUARY
0	0.0	03-MARCH
2	16.7	04-APRIL
1	8.3	05-MAY
4	33.3	06-JUNE
3	25.0	07-JULY
0	0.0	08-AUGUST
1	8.3	09-SEPTEMBER
0	0.0	10-OCTOBER
0	0.0	11-NOVEMBER
0	0.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
2	16.7	1-SUNDAY
3	25.0	2-MONDAY
1	8.3	3-TUESDAY
0	0.0	4-WEDNESDAY
3	25.0	5-THURSDAY
1	8.3	6-FRIDAY
2	16.7	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-9.024 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
3	25.0	1-INFLUENCE ALCOHOL
1	8.3	2-FOLLOW TOO CLOSE
2	16.7	3-FAILURE TO YIELD
0	0.0	4-IMPROPER TURN
4	33.3	5-SPEEDING
2	16.7	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
1	8.3	A-HEAD-ON
2	16.7	B-SIDESWIPE
6	50.0	C-REAR END
1	8.3	D-BROADSIDE
2	16.7	E-HIT OBJECT
0	0.0	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
12	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
9	75.0	A-CLEAR
2	16.7	B-CLOUDY
1	8.3	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
10	83.3	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
2	16.7	C-DARK-STREET LIGHT
0	0.0	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
10	83.3	A-DRY
2	16.7	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
9	75.0	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
3	25.0	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
12	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
7	58.3	1-RAMP INTERSECTION (EXIT)
1	8.3	2-RAMP
0	0.0	3-RAMP ENTRY
4	33.3	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-Ramp-9.024 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
12	100.0	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
1	8.3	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
1	8.3	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
0	0.0	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
6	50.0	A-STOPPED
9	75.0	B-PROCEDED STRAIGHT
0	0.0	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
2	16.7	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
1	8.3	H-SLOWING, STOPPING
1	8.3	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
0	0.0	M-OTHER UNSAFE TURN
1	8.3	N-CROSS INTO OPP LN
0	0.0	O-PARKED
1	8.3	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
0	0.0	0	0.0	4-IMPROPER TURN
2	16.7	0	0.0	5-SPEEDING
1	8.3	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
1	8.3	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	1	8.3	M-OTHER
11	91.7	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	11	91.7	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
11	91.7	N-N, NE, NW BOUND
1	8.3	S-S, SE, SW BOUND
1	8.3	E-EASTBOUND
2	16.7	W-WESTBOUND
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
8	66.7	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
4	33.3	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	1	8.3	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	1	8.3	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
1	8.3	0	0.0	18-DIKE OR CURB
1	8.3	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	1	8.3	22-GUIDEPOST, CULVERT, PM
0	0.0	1	8.3	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	1	8.3	27-FENCE
0	0.0	0	0.0	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	1	8.3	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
10	83.3	0	0.0	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
0	0.0	10	83.3	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
1	8.3	0	0.0	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
4	33.3	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
7	58.3	0	0.0	F-RIGHT LANE
1	8.3	0	0.0	G-RIGHT SHOULDER AREA
0	0.0	0	0.0	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
3	25.0	2	16.7	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
0	0.0	10	83.3	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
10	83.3	0	0.0	A-HAD NOT BEEN DRINKING
3	25.0	0	0.0	B-HBD - UNDER INFLUENCE
1	8.3	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
1	8.3	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	12	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  05/15/2020
REFERENCE DATE    :  05/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' R006431-051220_SCR-001-Ramp-9.264 '
EVENT ID          :  4225287
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 009.264     TO:  05-SCR-001 009.265
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC IN 1,2,3,4
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-9.264 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
18	0	5	13	0	8

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
2	11.1	1
15	83.3	2
1	5.6	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
2	11.1	1
15	83.3	2
1	5.6	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
0	0.0	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
1	5.6	06- 6 A.M.
0	0.0	07- 7 A.M.
1	5.6	08- 8 A.M.
1	5.6	09- 9 A.M.
1	5.6	10- 10 A.M.
1	5.6	11- 11 A.M.
1	5.6	12- 12 NOON
3	16.7	13- 1 P.M.
1	5.6	14- 2 P.M.
1	5.6	15- 3 P.M.
1	5.6	16- 4 P.M.
0	0.0	17- 5 P.M.
1	5.6	18- 6 P.M.
0	0.0	19- 7 P.M.
2	11.1	20- 8 P.M.
1	5.6	21- 9 P.M.
1	5.6	22- 10 P.M.
1	5.6	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
18	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
17	94.4	N-NORTHBOUND
1	5.6	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
4	22.2	2010
4	22.2	2011
0	0.0	2012
0	0.0	2013
1	5.6	2014
4	22.2	2015
2	11.1	2016
2	11.1	2017
1	5.6	2018
0	0.0	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
1	5.6	01-JANUARY
0	0.0	02-FEBRUARY
2	11.1	03-MARCH
2	11.1	04-APRIL
1	5.6	05-MAY
1	5.6	06-JUNE
2	11.1	07-JULY
1	5.6	08-AUGUST
1	5.6	09-SEPTEMBER
4	22.2	10-OCTOBER
1	5.6	11-NOVEMBER
2	11.1	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
3	16.7	1-SUNDAY
2	11.1	2-MONDAY
3	16.7	3-TUESDAY
1	5.6	4-WEDNESDAY
4	22.2	5-THURSDAY
4	22.2	6-FRIDAY
1	5.6	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-9.264 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
1	5.6	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
7	38.9	3-FAILURE TO YIELD
0	0.0	4-IMPROPER TURN
5	27.8	5-SPEEDING
2	11.1	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
1	5.6	C-OTHER THAN DRIVER
2	11.1	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
5	27.8	A-HEAD-ON
1	5.6	B-SIDESWIPE
5	27.8	C-REAR END
5	27.8	D-BROADSIDE
2	11.1	E-HIT OBJECT
0	0.0	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
18	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
16	88.9	A-CLEAR
2	11.1	B-CLOUDY
0	0.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
12	66.7	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
5	27.8	C-DARK-STREET LIGHT
1	5.6	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
18	100.0	A-DRY
0	0.0	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
15	83.3	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
3	16.7	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
18	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
4	22.2	1-RAMP INTERSECTION (EXIT)
2	11.1	2-RAMP
1	5.6	3-RAMP ENTRY
11	61.1	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-Ramp-9.264 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
16	88.9	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
1	5.6	C-MOTORCYCLE
5	27.8	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
1	5.6	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
3	16.7	A-STOPPED
15	83.3	B-PROCEDED STRAIGHT
1	5.6	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
10	55.6	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
1	5.6	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
1	5.6	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
1	5.6	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
1	5.6	0	0.0	4-IMPROPER TURN
0	0.0	0	0.0	5-SPEEDING
2	11.1	0	0.0	6-OTHER VIOLATIONS
1	5.6	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
1	5.6	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
17	94.4	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	18	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
10	55.6	N-N, NE, NW BOUND
4	22.2	S-S, SE, SW BOUND
7	38.9	E-EASTBOUND
7	38.9	W-WESTBOUND
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
2	11.1	B-CELL PHONE IN USE*
16	88.9	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
3	16.7	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	1	5.6	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
2	11.1	1	5.6	18-DIKE OR CURB
0	0.0	0	5.6	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	0	0.0	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	1	5.6	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
16	88.9	1	5.6	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
1	5.6	18	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
1	5.6	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
1	5.6	1	5.6	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
8	44.4	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
15	83.3	2	11.1	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
0	0.0	0	0.0	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
1	5.6	1	5.6	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
1	5.6	18	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
17	94.4	0	0.0	A-HAD NOT BEEN DRINKING
1	5.6	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
1	5.6	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	1	5.6	F-OTHER PHYSICAL IMPAIRMENT
1	5.6	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	17	94.4	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  05/15/2020
REFERENCE DATE    :  05/15/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' R006431-051220_SCR-001-Ramp-9.461 '
EVENT ID          :  4225289
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 009.461     TO:  05-SCR-001 009.462
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC IN 1,2,3,4
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-9.461 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
12	0	4	8	0	5

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
2	16.7	1
9	75.0	2
1	8.3	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
1	8.3	1
10	83.3	2
1	8.3	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
1	8.3	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
1	8.3	06- 6 A.M.
0	0.0	07- 7 A.M.
0	0.0	08- 8 A.M.
0	0.0	09- 9 A.M.
0	0.0	10- 10 A.M.
0	0.0	11- 11 A.M.
2	16.7	12- 12 NOON
2	16.7	13- 1 P.M.
1	8.3	14- 2 P.M.
1	8.3	15- 3 P.M.
2	16.7	16- 4 P.M.
0	0.0	17- 5 P.M.
0	0.0	18- 6 P.M.
1	8.3	19- 7 P.M.
1	8.3	20- 8 P.M.
0	0.0	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
12	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
1	8.3	N-NORTHBOUND
11	91.7	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
0	0.0	2010
2	16.7	2011
2	16.7	2012
1	8.3	2013
0	0.0	2014
2	16.7	2015
3	25.0	2016
0	0.0	2017
2	16.7	2018
0	0.0	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
1	8.3	01-JANUARY
0	0.0	02-FEBRUARY
2	16.7	03-MARCH
1	8.3	04-APRIL
1	8.3	05-MAY
1	8.3	06-JUNE
0	0.0	07-JULY
2	16.7	08-AUGUST
1	8.3	09-SEPTEMBER
1	8.3	10-OCTOBER
2	16.7	11-NOVEMBER
0	0.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
0	0.0	1-SUNDAY
3	25.0	2-MONDAY
3	25.0	3-TUESDAY
2	16.7	4-WEDNESDAY
3	25.0	5-THURSDAY
1	8.3	6-FRIDAY
0	0.0	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' R006431-051220_SCR-001-Ramp-9.461 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
0	0.0	1-INFLUENCE ALCOHOL
1	8.3	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
1	8.3	4-IMPROPER TURN
5	41.7	5-SPEEDING
4	33.3	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
1	8.3	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
0	0.0	B-SIDESWIPE
7	58.3	C-REAR END
2	16.7	D-BROADSIDE
1	8.3	E-HIT OBJECT
0	0.0	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
2	16.7	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
12	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
9	75.0	A-CLEAR
3	25.0	B-CLOUDY
0	0.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
8	66.7	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
3	25.0	C-DARK-STREET LIGHT
1	8.3	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
10	83.3	A-DRY
2	16.7	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
5	41.7	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
7	58.3	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
12	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
5	41.7	1-RAMP INTERSECTION (EXIT)
1	8.3	2-RAMP
1	8.3	3-RAMP ENTRY
5	41.7	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' R006431-051220_SCR-001-Ramp-9.461 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
12	100.0	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
1	8.3	C-MOTORCYCLE
1	8.3	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
0	0.0	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
1	8.3	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
7	58.3	A-STOPPED
8	66.7	B-PROCEDED STRAIGHT
0	0.0	C-RAN OFF ROAD
2	16.7	D-MAKING RIGHT TURN
2	16.7	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
1	8.3	G-BACKING
1	8.3	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
1	8.3	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
0	0.0	0	0.0	4-IMPROPER TURN
0	0.0	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
1	8.3	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
1	8.3	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
12	100.0	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
1	8.3	12	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
2	16.7	N-N, NE, NW BOUND
8	66.7	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
4	33.3	W-WESTBOUND
1	8.3	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
12	100.0	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
3	25.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
1	8.3	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
0	0.0	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	0	0.0	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	1	8.3	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
11	91.7	1	8.3	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
1	8.3	12	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
1	8.3	0	0.0	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
2	16.7	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
10	83.3	2	16.7	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
0	0.0	0	0.0	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
1	8.3	0	0.0	<-NOT STATED
1	8.3	12	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
12	100.0	0	0.0	A-HAD NOT BEEN DRINKING
0	0.0	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
2	16.7	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
1	8.3	12	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  07/31/2020
REFERENCE DATE    :  07/31/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' SCR-001-Ramp-10.381 '
EVENT ID          :  4245711
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 010.381     TO:  05-SCR-001 010.382
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC IN 1,2,3,4
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.381 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
8	1	4	3	1	4

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
6	75.0	1
1	12.5	2
1	12.5	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
5	62.5	1
2	25.0	2
1	12.5	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
3	37.5	00- 12 MID.
0	0.0	01- 1 A.M.
1	12.5	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
1	12.5	07- 7 A.M.
0	0.0	08- 8 A.M.
1	12.5	09- 9 A.M.
0	0.0	10- 10 A.M.
0	0.0	11- 11 A.M.
1	12.5	12- 12 NOON
0	0.0	13- 1 P.M.
0	0.0	14- 2 P.M.
0	0.0	15- 3 P.M.
0	0.0	16- 4 P.M.
1	12.5	17- 5 P.M.
0	0.0	18- 6 P.M.
0	0.0	19- 7 P.M.
0	0.0	20- 8 P.M.
0	0.0	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
8	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
8	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
1	12.5	2010
0	0.0	2011
2	25.0	2012
0	0.0	2013
3	37.5	2014
1	12.5	2015
0	0.0	2016
0	0.0	2017
1	12.5	2018
0	0.0	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
0	0.0	01-JANUARY
2	25.0	02-FEBRUARY
1	12.5	03-MARCH
0	0.0	04-APRIL
1	12.5	05-MAY
0	0.0	06-JUNE
1	12.5	07-JULY
0	0.0	08-AUGUST
2	25.0	09-SEPTEMBER
1	12.5	10-OCTOBER
0	0.0	11-NOVEMBER
0	0.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
3	37.5	1-SUNDAY
2	25.0	2-MONDAY
1	12.5	3-TUESDAY
0	0.0	4-WEDNESDAY
0	0.0	5-THURSDAY
1	12.5	6-FRIDAY
1	12.5	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.381 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
4	50.0	1-INFLUENCE ALCOHOL
1	12.5	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
2	25.0	4-IMPROPER TURN
1	12.5	5-SPEEDING
0	0.0	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
0	0.0	B-SIDESWIPE
2	25.0	C-REAR END
1	12.5	D-BROADSIDE
4	50.0	E-HIT OBJECT
1	12.5	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
8	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
6	75.0	A-CLEAR
0	0.0	B-CLOUDY
2	25.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
3	37.5	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
1	12.5	C-DARK-STREET LIGHT
4	50.0	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
6	75.0	A-DRY
2	25.0	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
1	12.5	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
7	87.5	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
8	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
1	12.5	1-RAMP INTERSECTION (EXIT)
5	62.5	2-RAMP
0	0.0	3-RAMP ENTRY
2	25.0	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-Ramp-10.381 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
8	100.0	A-PASNGR CAR/STA WAGON
1	12.5	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
1	12.5	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
1	12.5	L-BICYCLE
0	0.0	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
1	12.5	A-STOPPED
3	37.5	B-PROCEDED STRAIGHT
4	50.0	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
1	12.5	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
1	12.5	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
1	12.5	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
3	37.5	0	0.0	4-IMPROPER TURN
1	12.5	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
0	0.0	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
1	12.5	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
4	50.0	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	8	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
1	12.5	N-N, NE, NW BOUND
6	75.0	S-S, SE, SW BOUND
1	12.5	E-EASTBOUND
0	0.0	W-WESTBOUND
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
6	75.0	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
2	25.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
3	37.5	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
1	12.5	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
1	12.5	1	12.5	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	1	12.5	27-FENCE
0	0.0	1	12.5	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	2	25.0	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
3	37.5	1	12.5	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
1	12.5	8	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
4	50.0	2	25.0	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
0	0.0	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
3	37.5	1	12.5	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
1	12.5	1	12.5	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
1	12.5	8	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
4	50.0	0	0.0	A-HAD NOT BEEN DRINKING
4	50.0	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	1	12.5	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
0	0.0	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	7	87.5	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

REPORT DATE	:	07/31/2020
REFERENCE DATE	:	07/31/2020
SUBMITTOR	:	T5MXIONG
REPORT TITLE	:	' SCR-001-Ramp-10.394 '
EVENT ID	:	4245709

LOCATION CRITERIA:

FROM: 05-SCR-001 010.394 TO: 05-SCR-001 010.395

SELECTION CRITERIA:

1 1 AND 515 - INTRS/RAMP ACC LOC IN 1,2,3,4

Accidents Date Range:

From -- 01/01/2010 To -- 12/31/2019

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.394 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
9	0	1	8	0	1

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
4	44.4	1
5	55.6	2
0	0.0	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
4	44.4	1
5	55.6	2
0	0.0	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
1	11.1	00- 12 MID.
1	11.1	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
0	0.0	07- 7 A.M.
1	11.1	08- 8 A.M.
0	0.0	09- 9 A.M.
0	0.0	10- 10 A.M.
0	0.0	11- 11 A.M.
1	11.1	12- 12 NOON
1	11.1	13- 1 P.M.
1	11.1	14- 2 P.M.
0	0.0	15- 3 P.M.
2	22.2	16- 4 P.M.
0	0.0	17- 5 P.M.
0	0.0	18- 6 P.M.
0	0.0	19- 7 P.M.
0	0.0	20- 8 P.M.
0	0.0	21- 9 P.M.
1	11.1	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
9	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
9	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
0	0.0	2010
2	22.2	2011
1	11.1	2012
0	0.0	2013
2	22.2	2014
1	11.1	2015
1	11.1	2016
0	0.0	2017
1	11.1	2018
1	11.1	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
1	11.1	01-JANUARY
0	0.0	02-FEBRUARY
1	11.1	03-MARCH
0	0.0	04-APRIL
3	33.3	05-MAY
0	0.0	06-JUNE
0	0.0	07-JULY
1	11.1	08-AUGUST
2	22.2	09-SEPTEMBER
1	11.1	10-OCTOBER
0	0.0	11-NOVEMBER
0	0.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
3	33.3	1-SUNDAY
1	11.1	2-MONDAY
3	33.3	3-TUESDAY
0	0.0	4-WEDNESDAY
0	0.0	5-THURSDAY
2	22.2	6-FRIDAY
0	0.0	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.394 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
3	33.3	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
2	22.2	4-IMPROPER TURN
3	33.3	5-SPEEDING
1	11.1	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
1	11.1	B-SIDESWIPE
3	33.3	C-REAR END
0	0.0	D-BROADSIDE
3	33.3	E-HIT OBJECT
1	11.1	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
1	11.1	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
9	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
7	77.8	A-CLEAR
2	22.2	B-CLOUDY
0	0.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
6	66.7	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
1	11.1	C-DARK-STREET LIGHT
2	22.2	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
8	88.9	A-DRY
1	11.1	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
2	22.2	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
7	77.8	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
9	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
2	22.2	1-RAMP INTERSECTION (EXIT)
5	55.6	2-RAMP
1	11.1	3-RAMP ENTRY
1	11.1	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-Ramp-10.394 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
7	77.8	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
1	11.1	C-MOTORCYCLE
4	44.4	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
0	0.0	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
3	33.3	A-STOPPED
5	55.6	B-PROCEDED STRAIGHT
3	33.3	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
1	11.1	G-BACKING
0	0.0	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
1	11.1	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
0	0.0	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
1	11.1	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
1	11.1	0	0.0	4-IMPROPER TURN
2	22.2	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
0	0.0	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
7	77.8	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	9	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
9	100.0	N-N, NE, NW BOUND
1	11.1	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
5	55.6	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
4	44.4	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-Ramp-10.394 '

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
4	44.4	1	11.1	18-DIKE OR CURB
0	0.0	0	11.1	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	1	11.1	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	1	11.1	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	2	22.2	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
5	55.6	0	0.0	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
0	0.0	8	88.9	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
4	44.4	2	22.2	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
1	11.1	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
3	33.3	0	0.0	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
0	0.0	1	11.1	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
1	11.1	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
0	0.0	8	88.9	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
5	55.6	0	0.0	A-HAD NOT BEEN DRINKING
2	22.2	0	0.0	B-HBD - UNDER INFLUENCE
1	11.1	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
1	11.1	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
1	11.1	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	9	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

REPORT DATE	:	07/31/2020
REFERENCE DATE	:	07/31/2020
SUBMITTOR	:	T5MXIONG
REPORT TITLE	:	' SCR-001-Ramp-10.504 '
EVENT ID	:	4245713

LOCATION CRITERIA:

FROM: 05-SCR-001 010.504 TO: 05-SCR-001 010.505

SELECTION CRITERIA:

1 1 AND 515 - INTRS/RAMP ACC LOC IN 1,2,3,4

Accidents Date Range:

From -- 01/01/2010 To -- 12/31/2019

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.504 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
6	0	2	4	0	2

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
4	66.7	1
1	16.7	2
1	16.7	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
3	50.0	1
2	33.3	2
1	16.7	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
1	16.7	00- 12 MID.
0	0.0	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
0	0.0	07- 7 A.M.
1	16.7	08- 8 A.M.
0	0.0	09- 9 A.M.
0	0.0	10- 10 A.M.
0	0.0	11- 11 A.M.
1	16.7	12- 12 NOON
2	33.3	13- 1 P.M.
1	16.7	14- 2 P.M.
0	0.0	15- 3 P.M.
0	0.0	16- 4 P.M.
0	0.0	17- 5 P.M.
0	0.0	18- 6 P.M.
0	0.0	19- 7 P.M.
0	0.0	20- 8 P.M.
0	0.0	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
6	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
6	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
1	16.7	2010
0	0.0	2011
0	0.0	2012
0	0.0	2013
0	0.0	2014
1	16.7	2015
1	16.7	2016
0	0.0	2017
1	16.7	2018
2	33.3	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
0	0.0	01-JANUARY
0	0.0	02-FEBRUARY
1	16.7	03-MARCH
0	0.0	04-APRIL
2	33.3	05-MAY
0	0.0	06-JUNE
0	0.0	07-JULY
2	33.3	08-AUGUST
0	0.0	09-SEPTEMBER
1	16.7	10-OCTOBER
0	0.0	11-NOVEMBER
0	0.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
0	0.0	1-SUNDAY
1	16.7	2-MONDAY
0	0.0	3-TUESDAY
0	0.0	4-WEDNESDAY
3	50.0	5-THURSDAY
0	0.0	6-FRIDAY
2	33.3	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.504 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
2	33.3	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
1	16.7	4-IMPROPER TURN
2	33.3	5-SPEEDING
1	16.7	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
1	16.7	B-SIDESWIPE
2	33.3	C-REAR END
0	0.0	D-BROADSIDE
3	50.0	E-HIT OBJECT
0	0.0	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
6	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
6	100.0	A-CLEAR
0	0.0	B-CLOUDY
0	0.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
5	83.3	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
1	16.7	C-DARK-STREET LIGHT
0	0.0	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
6	100.0	A-DRY
0	0.0	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
1	16.7	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
5	83.3	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
6	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
2	33.3	2-RAMP
0	0.0	3-RAMP ENTRY
4	66.7	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-Ramp-10.504 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
5	83.3	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
1	16.7	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
1	16.7	L-BICYCLE
0	0.0	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
2	33.3	A-STOPPED
4	66.7	B-PROCEDED STRAIGHT
1	16.7	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
0	0.0	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
2	33.3	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
2	33.3	0	0.0	4-IMPROPER TURN
0	0.0	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
1	16.7	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
5	83.3	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	6	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
4	66.7	N-N, NE, NW BOUND
0	0.0	S-S, SE, SW BOUND
2	33.3	E-EASTBOUND
0	0.0	W-WESTBOUND
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
4	66.7	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
2	33.3	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-Ramp-10.504 '

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
1	16.7	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
1	16.7	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
1	16.7	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	1	16.7	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	0	0.0	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
3	50.0	1	16.7	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
1	16.7	6	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
1	16.7	0	0.0	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
0	0.0	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
3	50.0	1	16.7	F-RIGHT LANE
1	16.7	0	0.0	G-RIGHT SHOULDER AREA
2	33.3	1	16.7	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
1	16.7	6	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
5	83.3	0	0.0	A-HAD NOT BEEN DRINKING
1	16.7	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
1	16.7	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
0	0.0	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	6	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

```
REPORT DATE       :  07/31/2020
REFERENCE DATE    :  07/31/2020
SUBMITTOR         :  T5MXIONG
REPORT TITLE      :  ' SCR-001-Ramp-10.561 '
EVENT ID          :  4245719
```

LOCATION CRITERIA:

```
FROM:  05-SCR-001 010.561     TO:  05-SCR-001 010.562
```

SELECTION CRITERIA:

```
1 1 AND 515 -  INTRS/RAMP ACC LOC IN 1,2,3,4
```

Accidents Date Range:

```
From -- 01/01/2010  To -- 12/31/2019
```

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.561 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
7	0	1	6	0	2

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
3	42.9	1
4	57.1	2
0	0.0	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
3	42.9	1
4	57.1	2
0	0.0	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
0	0.0	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
0	0.0	07- 7 A.M.
0	0.0	08- 8 A.M.
0	0.0	09- 9 A.M.
0	0.0	10- 10 A.M.
0	0.0	11- 11 A.M.
1	14.3	12- 12 NOON
0	0.0	13- 1 P.M.
0	0.0	14- 2 P.M.
1	14.3	15- 3 P.M.
2	28.6	16- 4 P.M.
1	14.3	17- 5 P.M.
0	0.0	18- 6 P.M.
1	14.3	19- 7 P.M.
0	0.0	20- 8 P.M.
0	0.0	21- 9 P.M.
1	14.3	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
7	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
7	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
2	28.6	2010
0	0.0	2011
1	14.3	2012
0	0.0	2013
1	14.3	2014
1	14.3	2015
0	0.0	2016
1	14.3	2017
0	0.0	2018
1	14.3	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
1	14.3	01-JANUARY
1	14.3	02-FEBRUARY
1	14.3	03-MARCH
1	14.3	04-APRIL
0	0.0	05-MAY
0	0.0	06-JUNE
1	14.3	07-JULY
0	0.0	08-AUGUST
1	14.3	09-SEPTEMBER
0	0.0	10-OCTOBER
0	0.0	11-NOVEMBER
1	14.3	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
0	0.0	1-SUNDAY
2	28.6	2-MONDAY
0	0.0	3-TUESDAY
1	14.3	4-WEDNESDAY
2	28.6	5-THURSDAY
1	14.3	6-FRIDAY
1	14.3	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.561 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
0	0.0	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
1	14.3	3-FAILURE TO YIELD
2	28.6	4-IMPROPER TURN
4	57.1	5-SPEEDING
0	0.0	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
0	0.0	B-SIDESWIPE
3	42.9	C-REAR END
1	14.3	D-BROADSIDE
2	28.6	E-HIT OBJECT
1	14.3	F-OVERTURN
0	0.0	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
7	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
4	57.1	A-CLEAR
3	42.9	B-CLOUDY
0	0.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
5	71.4	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
2	28.6	C-DARK-STREET LIGHT
0	0.0	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
6	85.7	A-DRY
1	14.3	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
2	28.6	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
5	71.4	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
7	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
2	28.6	1-RAMP INTERSECTION (EXIT)
0	0.0	2-RAMP
0	0.0	3-RAMP ENTRY
5	71.4	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-Ramp-10.561 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
6	85.7	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
3	42.9	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
0	0.0	L-BICYCLE
0	0.0	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
0	0.0	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
1	14.3	A-STOPPED
4	57.1	B-PROCEDED STRAIGHT
0	0.0	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
1	14.3	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
0	0.0	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
3	42.9	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
1	14.3	0	0.0	4-IMPROPER TURN
0	0.0	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
1	14.3	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
1	14.3	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
5	71.4	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	7	100.0	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
2	28.6	N-N, NE, NW BOUND
2	28.6	S-S, SE, SW BOUND
1	14.3	E-EASTBOUND
3	42.9	W-WESTBOUND
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
6	85.7	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
2	28.6	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-Ramp-10.561 '

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
1	14.3	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
1	14.3	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
0	0.0	0	0.0	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
1	14.3	0	0.0	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
4	57.1	0	0.0	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
0	0.0	7	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
0	0.0	0	0.0	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
1	14.3	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
5	71.4	0	0.0	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
2	28.6	0	0.0	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
0	0.0	7	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
6	85.7	0	0.0	A-HAD NOT BEEN DRINKING
0	0.0	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
2	28.6	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	7	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

REPORT DATE	:	07/31/2020
REFERENCE DATE	:	07/31/2020
SUBMITTOR	:	T5MXIONG
REPORT TITLE	:	' SCR-001-Ramp-10.684 '
EVENT ID	:	4245715

LOCATION CRITERIA:

FROM: 05-SCR-001 010.684 TO: 05-SCR-001 010.685

SELECTION CRITERIA:

1 1 AND 515 - INTRS/RAMP ACC LOC IN 1,2,3,4

Accidents Date Range:

From -- 01/01/2010 To -- 12/31/2019

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.684 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
14	0	6	8	0	6

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
4	28.6	1
6	42.9	2
4	28.6	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
2	14.3	1
8	57.1	2
4	28.6	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
0	0.0	01- 1 A.M.
0	0.0	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
0	0.0	07- 7 A.M.
2	14.3	08- 8 A.M.
1	7.1	09- 9 A.M.
1	7.1	10- 10 A.M.
1	7.1	11- 11 A.M.
2	14.3	12- 12 NOON
1	7.1	13- 1 P.M.
0	0.0	14- 2 P.M.
0	0.0	15- 3 P.M.
1	7.1	16- 4 P.M.
1	7.1	17- 5 P.M.
3	21.4	18- 6 P.M.
1	7.1	19- 7 P.M.
0	0.0	20- 8 P.M.
0	0.0	21- 9 P.M.
0	0.0	22- 10 P.M.
0	0.0	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
14	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
14	100.0	N-NORTHBOUND
0	0.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
3	21.4	2010
2	14.3	2011
3	21.4	2012
3	21.4	2013
0	0.0	2014
2	14.3	2015
0	0.0	2016
0	0.0	2017
1	7.1	2018
0	0.0	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
0	0.0	01-JANUARY
1	7.1	02-FEBRUARY
1	7.1	03-MARCH
0	0.0	04-APRIL
0	0.0	05-MAY
2	14.3	06-JUNE
4	28.6	07-JULY
2	14.3	08-AUGUST
1	7.1	09-SEPTEMBER
2	14.3	10-OCTOBER
1	7.1	11-NOVEMBER
0	0.0	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
1	7.1	1-SUNDAY
0	0.0	2-MONDAY
2	14.3	3-TUESDAY
6	42.9	4-WEDNESDAY
2	14.3	5-THURSDAY
1	7.1	6-FRIDAY
2	14.3	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.684 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
0	0.0	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
1	7.1	3-FAILURE TO YIELD
2	14.3	4-IMPROPER TURN
10	71.4	5-SPEEDING
1	7.1	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
1	7.1	B-SIDESWIPE
10	71.4	C-REAR END
0	0.0	D-BROADSIDE
2	14.3	E-HIT OBJECT
0	0.0	F-OVERTURN
1	7.1	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
14	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
11	78.6	A-CLEAR
2	14.3	B-CLOUDY
0	0.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
1	7.1	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
14	100.0	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
0	0.0	C-DARK-STREET LIGHT
0	0.0	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
14	100.0	A-DRY
0	0.0	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
7	50.0	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
7	50.0	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
14	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
0	0.0	1-RAMP INTERSECTION (EXIT)
1	7.1	2-RAMP
1	7.1	3-RAMP ENTRY
12	85.7	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-Ramp-10.684 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
14	100.0	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
1	7.1	C-MOTORCYCLE
1	7.1	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
1	7.1	L-BICYCLE
1	7.1	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
1	7.1	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
9	64.3	A-STOPPED
11	78.6	B-PROCEDED STRAIGHT
1	7.1	C-RAN OFF ROAD
0	0.0	D-MAKING RIGHT TURN
0	0.0	E-MAKING LEFT TURN
1	7.1	F-MAKING U TURN
0	0.0	G-BACKING
2	14.3	H-SLOWING, STOPPING
0	0.0	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
0	0.0	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
1	7.1	P-MERGING
0	0.0	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
0	0.0	2- XING XWALK - INTRST
1	7.1	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
0	0.0	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
0	0.0	0	0.0	4-IMPROPER TURN
1	7.1	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	0	0.0	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
0	0.0	0	0.0	E-VISION OBSCUREMENT
3	21.4	0	0.0	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
1	7.1	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
12	85.7	1	7.1	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	13	92.9	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
3	21.4	N-N, NE, NW BOUND
2	14.3	S-S, SE, SW BOUND
2	14.3	E-EASTBOUND
7	50.0	W-WESTBOUND
1	7.1	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
0	0.0	B-CELL PHONE IN USE*
11	78.6	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
4	28.6	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	1	7.1	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
0	0.0	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
1	7.1	0	0.0	18-DIKE OR CURB
0	0.0	0	0.0	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	0	0.0	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
1	7.1	0	0.0	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	1	7.1	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	0	0.0	99- NO OBJECT INVOLVED
12	85.7	4	28.6	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
5	35.7	14	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
2	14.3	1	7.1	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
0	0.0	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
12	85.7	5	35.7	F-RIGHT LANE
1	7.1	0	0.0	G-RIGHT SHOULDER AREA
0	0.0	0	0.0	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	0	0.0	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
5	35.7	14	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
13	92.9	0	0.0	A-HAD NOT BEEN DRINKING
0	0.0	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
0	0.0	0	0.0	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
3	21.4	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
0	0.0	14	100.0	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

Policy controlling the use of Traffic Accident Surveillance and Analysis System (TASAS) - Transportation Systems Network (TSN) Reports

1. TASAS - TSN has officially replaced the TASAS - "Legacy" database.

2. Reports from TSN are to be used and interpreted by the California Department of Transportation (Caltrans) officials or authorized representative.

3. Electronic versions of these reports may be emailed between Caltrans' employees only using the State computer system.

4. The contents of these reports shall be considered confidential and may be privileged pursuant to 23 U.S.C. Section 409, and are for the sole use of the intended recipient(s). Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. Do not print, copy or forward.

California Department of Transportation

OTM22215

TSAR - ACCIDENT SUMMARY

REPORT PARAMETERS:

REPORT DATE	:	07/31/2020
REFERENCE DATE	:	07/31/2020
SUBMITTOR	:	T5MXIONG
REPORT TITLE	:	' SCR-001-Ramp-10.711 '
EVENT ID	:	4245717

LOCATION CRITERIA:

FROM: 05-SCR-001 010.711 TO: 05-SCR-001 010.712

SELECTION CRITERIA:

1 1 AND 515 - INTRS/RAMP ACC LOC IN 1,2,3,4

Accidents Date Range:

From -- 01/01/2010 To -- 12/31/2019

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.711 '

TOTAL ACCIDENTS	FATAL	INJURY	PDO	PERSONS KILLED	PERSONS INJURED
17	0	8	9	0	11

MOTOR VEHICLES INVOLVED NUMBER	PCT	CODE
9	52.9	1
7	41.2	2
1	5.9	3
0	0.0	>3

<---LINES CODED---> NUMBER	PCT	CODE
8	47.1	1
7	41.2	2
2	11.8	3
0	0.0	4
0	0.0	5
0	0.0	6
0	0.0	7
0	0.0	8
0	0.0	9

<---- HOUR OF DAY ----> NUMBER	PCT	CODE
0	0.0	00- 12 MID.
1	5.9	01- 1 A.M.
1	5.9	02- 2 A.M.
0	0.0	03- 3 A.M.
0	0.0	04- 4 A.M.
0	0.0	05- 5 A.M.
0	0.0	06- 6 A.M.
0	0.0	07- 7 A.M.
1	5.9	08- 8 A.M.
0	0.0	09- 9 A.M.
1	5.9	10- 10 A.M.
0	0.0	11- 11 A.M.
0	0.0	12- 12 NOON
2	11.8	13- 1 P.M.
1	5.9	14- 2 P.M.
3	17.6	15- 3 P.M.
1	5.9	16- 4 P.M.
1	5.9	17- 5 P.M.
0	0.0	18- 6 P.M.
0	0.0	19- 7 P.M.
2	11.8	20- 8 P.M.
1	5.9	21- 9 P.M.
0	0.0	22- 10 P.M.
2	11.8	23- 11 P.M.
0	0.0	25- UNKNOWN

<--- ACCESS CONTROL ---> NUMBER	PCT	CODE
0	0.0	C-CONVENTIONAL
0	0.0	E-EXPRESSWAY
17	100.0	F-FREEWAY
0	0.0	S-1-WAY CITY ST
0	0.0	--INVALID DATA
0	0.0	+-NO DATA

<--- SIDE OF HIGHWAY ---> NUMBER	PCT	CODE
0	0.0	N-NORTHBOUND
17	100.0	S-SOUTHBOUND
0	0.0	E-EASTBOUND
0	0.0	W-WESTBOUND

<----- YEAR -----> NUMBER	PCT	CODE
1	5.9	2010
3	17.6	2011
2	11.8	2012
1	5.9	2013
2	11.8	2014
3	17.6	2015
4	23.5	2016
0	0.0	2017
1	5.9	2018
0	0.0	2019
0	0.0	2020

<----- MONTH -----> NUMBER	PCT	CODE
2	11.8	01-JANUARY
1	5.9	02-FEBRUARY
2	11.8	03-MARCH
0	0.0	04-APRIL
1	5.9	05-MAY
0	0.0	06-JUNE
1	5.9	07-JULY
1	5.9	08-AUGUST
2	11.8	09-SEPTEMBER
1	5.9	10-OCTOBER
4	23.5	11-NOVEMBER
2	11.8	12-DECEMBER

<---- DAY OF WEEK ----> NUMBER	PCT	CODE
2	11.8	1-SUNDAY
2	11.8	2-MONDAY
2	11.8	3-TUESDAY
3	17.6	4-WEDNESDAY
2	11.8	5-THURSDAY
0	0.0	6-FRIDAY
6	35.3	7-SATURDAY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - ACCIDENT SUMMARY
' SCR-001-Ramp-10.711 '

<-- PRIMARY COLLISION FACTOR -->

NUMBER	PCT	CODE
8	47.1	1-INFLUENCE ALCOHOL
0	0.0	2-FOLLOW TOO CLOSE
0	0.0	3-FAILURE TO YIELD
1	5.9	4-IMPROPER TURN
3	17.6	5-SPEEDING
5	29.4	6-OTHER VIOLATIONS
0	0.0	B-IMPROPER DRIVING
0	0.0	C-OTHER THAN DRIVER
0	0.0	D-UNKNOWN
0	0.0	E-FELL SLEEP
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- TYPE OF COLLISION --->

NUMBER	PCT	CODE
0	0.0	A-HEAD-ON
1	5.9	B-SIDESWIPE
6	35.3	C-REAR END
2	11.8	D-BROADSIDE
7	41.2	E-HIT OBJECT
0	0.0	F-OVERTURN
1	5.9	G-AUTO-PEDESTRIAN
0	0.0	H-OTHER
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--- ROADWAY CONDITION --->

NUMBER	PCT	CODE
0	0.0	A-HOLES, RUTS
0	0.0	B-LOOSE MATERIAL
0	0.0	C-OBSTRUCTION ON ROAD
0	0.0	D-CONSTRUCT-REPAIR-ZONE
0	0.0	E-REDUCED ROAD WIDTH
0	0.0	F-FLOODED
0	0.0	G-OTHER
17	100.0	H-NO UNUSUAL CONDITION
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<--------- WEATHER --------->

NUMBER	PCT	CODE
14	82.4	A-CLEAR
3	17.6	B-CLOUDY
0	0.0	C-RAINING
0	0.0	D-SNOWING
0	0.0	E-FOG
0	0.0	F-OTHER
0	0.0	G-WIND
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------------ LIGHTING ------------>

NUMBER	PCT	CODE
9	52.9	A-DAY LIGHT
0	0.0	B-DUSK/DAWN
2	11.8	C-DARK-STREET LIGHT
6	35.3	D-DARK-NO STREET LIGHT
0	0.0	E-DARK-INOPR STREET LIGHT
0	0.0	F-DARK-NOT STATED
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<----- ROAD SURFACE ----->

NUMBER	PCT	CODE
16	94.1	A-DRY
1	5.9	B-WET
0	0.0	C-SNOWY, ICY
0	0.0	D-SLIPPERY
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<------ RIGHT OF WAY CONTROL ------>

NUMBER	PCT	CODE
10	58.8	A-CONTROL FUNCTIONING
0	0.0	B-CONTROL NOT FUNCTIONING
0	0.0	C-CONTROLS OBSCURED
7	41.2	D-NO CONTROLS PRESENT
0	0.0	<-NOT STATED
0	0.0	-INVALID CODES

<-------- HIGHWAY GROUP -------->

NUMBER	PCT	CODE
0	0.0	R-IND. ALIGN RIGHT
0	0.0	L-IND. ALIGN LEFT
17	100.0	D-DIVIDED
0	0.0	U-UNDIVIDED

<- INTERSECTION/RAMP ACCIDENT LOCATION ->

NUMBER	PCT	CODE
5	29.4	1-RAMP INTERSECTION (EXIT)
8	47.1	2-RAMP
0	0.0	3-RAMP ENTRY
4	23.5	4-RAMP AREA, INTERSECTION STREET
0	0.0	5-IN INTERSECTION
0	0.0	6-OUTSIDE INTRSCT-NONSTATE RTE
0	0.0	--DOES NOT APPLY

TASAS SELECTIVE RECORD RETRIEVAL
TSAR - PARTY SUMMARY
' SCR-001-Ramp-10.711 '

<---------- PARTY TYPE ---------->

NUMBER	PCT	CODE
14	82.4	A-PASNGR CAR/STA WAGON
0	0.0	B-PASNGR CAR W/TRAILER
0	0.0	C-MOTORCYCLE
3	17.6	D-PICKUP/PANEL TRUCK
0	0.0	E-PICKUP/PANEL W/TRAILER
0	0.0	F-TRUCK/TRUCK TRACTOR
0	0.0	G-TRUCK/TRACTOR & 1 TRAILER
0	0.0	2-TRUCK/TRACTOR & 2 TRAILER
0	0.0	3-TRUCK/TRACTOR & 3 TRAILER
0	0.0	4-SINGLE UNIT TANKER
0	0.0	5-TRUCK/TRA & 1 TANK TRALR
0	0.0	6-TRUCK/TRA & 2 TANK TRALR
0	0.0	H-SCHOOL BUS
0	0.0	I-OTHER BUS
0	0.0	J-EMERGENCY VEHICLE
0	0.0	K-HIGHWAY CONST EQUP.**
1	5.9	L-BICYCLE
1	5.9	M-OTHER-MOTOR VEH
0	0.0	N-OTHER-NON-MOTOR VEH
0	0.0	O-SPILLED LOADS
0	0.0	P-DISENGAGED TOW
0	0.0	Q-UNINVOLVED VEHICLE
0	0.0	R-MOPED
0	0.0	T-TRAIN
1	5.9	U-PEDESTRIAN
0	0.0	V-DISMOUNT PEDESTRIAN
0	0.0	W-ANIMAL - LIVESTOCK
0	0.0	X-ANIMAL - DEER
0	0.0	Z-ANIMAL - OTHER

<- MOVEMENT PRECEDING COLLISION ->

NUMBER	PCT	CODE
4	23.5	A-STOPPED
7	41.2	B-PROCEDED STRAIGHT
7	41.2	C-RAN OFF ROAD
1	5.9	D-MAKING RIGHT TURN
2	11.8	E-MAKING LEFT TURN
0	0.0	F-MAKING U TURN
0	0.0	G-BACKING
3	17.6	H-SLOWING, STOPPING
1	5.9	I-PASS OTHER VEHICLE
0	0.0	J-CHANGING LANES
0	0.0	K-PARKING
0	0.0	L-ENTER FROM SHLDR
0	0.0	M-OTHER UNSAFE TURN
0	0.0	N-CROSS INTO OPP LN
0	0.0	O-PARKED
0	0.0	P-MERGING
1	5.9	Q-TRAVEL WRONG WAY
0	0.0	R-OTHER
0	0.0	<-NOT STATED

PEDESTRIAN

NUMBER	PCT	CODE
1	5.9	2- XING XWALK - INTRST
0	0.0	3- XING XWALK - NOT INTR
0	0.0	4- XING NOT XWALK
0	0.0	5- ROADWAY - INCL SHLDR
0	0.0	6- NOT IN ROADWAY
0	0.0	7- APRH-LEAVE SCHL BUS
0	0.0	- INVALID CODES

<---- OTHER ASSOCIATED FACTORS ---->

#1 NUMBER	#1 PCT	#2 NUMBER	#2 PCT	CODE
0	0.0	0	0.0	1-INFLUENCE ALCOHOL
1	5.9	0	0.0	2-FOLLOW TOO CLOSE
0	0.0	0	0.0	3-FAILURE TO YIELD
5	29.4	0	0.0	4-IMPROPER TURN
3	17.6	0	0.0	5-SPEEDING
0	0.0	0	0.0	6-OTHER VIOLATIONS
0	0.0	1	5.9	A-CELL PHONE* (INATTN)
0	0.0	0	0.0	B-ELECTRC EQUIP*(INATTN)
0	0.0	0	0.0	C-RADIO/CD/HDPHN*(INATTN)
0	0.0	0	0.0	D-SMOKING* (INATTN)
1	5.9	0	0.0	E-VISION OBSCUREMENT
0	0.0	1	5.9	F-INATTENTION - OTHER
0	0.0	0	0.0	G-STOP & GO TRAFFIC
0	0.0	0	0.0	H-ENTER/LEAVE RAMP
0	0.0	0	0.0	I-PREVIOUS COLLISION
0	0.0	0	0.0	J-UNFAMILIAR WITH ROAD
0	0.0	0	0.0	K-DEFECT VEHICLE EQUIP
0	0.0	0	0.0	L-UNINVOLVED VEHICLE
0	0.0	0	0.0	M-OTHER
11	64.7	0	0.0	N-NONE APPARENT
0	0.0	0	0.0	P-WIND
0	0.0	0	0.0	R-RAMP ACCIDENT
0	0.0	0	0.0	S-RUNAWAY VEHICLE
0	0.0	0	0.0	T-EATING* (INATTN)
0	0.0	0	0.0	U-CHILDREN* (INATTN)
0	0.0	0	0.0	V-ANIMALS* (INATTN)
0	0.0	0	0.0	W-PERSNL HYGIENE*(INATTN)
0	0.0	0	0.0	X-READING* (INATTN)
0	0.0	15	88.2	<-NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY

* INATTENTION CODES EFF. 01-01-01

<---- DIRECTION OF TRAVEL ---->

NUMBER	PCT	CODE
1	5.9	N-N, NE, NW BOUND
17	100.0	S-S, SE, SW BOUND
0	0.0	E-EASTBOUND
3	17.6	W-WESTBOUND
0	0.0	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

** INCLUDES EQUIPMENT ENGAGED IN CONST/MAINT ACTIVITIES AS OF 00-02-22

<---- SPECIAL INFORMATION ---->

NUMBER	PCT	CODE
0	0.0	A-HAZARDOUS MATERIALS
2	11.8	B-CELL PHONE IN USE*
12	70.6	C-CELL PHONE NOT IN USE*
0	0.0	D-CELL PHONE NONE/UNKNOWN*
3	17.6	<-NOT STATED
0	0.0	--DOES NOT APPLY
0	0.0	-INVALID CODES

* SPECIAL INFORMATION CODES EFF. 04-01-01

<------------------- OBJECT STRUCK ------------------->

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	01-SIDE OF BRIDGE RAILING
0	0.0	0	0.0	02-END OF BRIDGE RAILING
0	0.0	0	0.0	03-PIER, COLUMN, ABUTMENT
0	0.0	0	0.0	04-BOTTOM OF STRUCTURE
0	0.0	0	0.0	05-BRIDGE END POST IN GORE
0	0.0	0	0.0	06-END OF GUARD RAIL
0	0.0	0	0.0	07-BRIDGE APPROACH GUARD RAIL
0	0.0	0	0.0	10-LIGHT OR SIGNAL POLE
0	0.0	0	0.0	11-UTILITY POLE
0	0.0	0	0.0	12-POLE (TYPE NOT STATED)
1	5.9	0	0.0	13-TRAFFIC SIGN/SIGN POST
0	0.0	0	0.0	14-OTHER SIGNS NOT TRAFFIC
0	0.0	0	0.0	15-GUARDRAIL
0	0.0	0	0.0	16-MEDIAN BARRIER
0	0.0	0	0.0	17-WALL (EXCEPT SOUND WALL)
3	17.6	1	5.9	18-DIKE OR CURB
0	0.0	0	5.9	19-TRAFFIC ISLAND
0	0.0	0	0.0	20-RAISED BARS
0	0.0	0	0.0	21-CONCRETE OBJ (HDWL, D.I.)
0	0.0	0	0.0	22-GUIDEPOST, CULVERT, PM
0	0.0	1	5.9	23-CUT SLOPE OR EMBANKMENT
0	0.0	0	0.0	24-OVER EMBANKMENT
0	0.0	0	0.0	25-IN WATER
0	0.0	0	0.0	26-DRAINAGE DITCH
0	0.0	0	0.0	27-FENCE
4	23.5	4	23.5	28-TREES
0	0.0	0	0.0	29-PLANTS
0	0.0	0	0.0	30-SOUND WALL
0	0.0	0	0.0	40-NATURAL MATRL ON ROAD
0	0.0	0	0.0	41-TEMP BARRICADES, CONES
0	0.0	0	0.0	42-OTHER OBJECT ON ROAD
0	0.0	0	0.0	43-OTHER OBJECT OFF ROAD
0	0.0	2	11.8	44-OVERTURNED
0	0.0	0	0.0	45-CRASH CUSHION (SAND)
0	0.0	0	0.0	46-CRASH CUSHION (OTHER)
0	0.0	0	0.0	51-CALL BOX
0	0.0	0	0.0	98-UNKNOWN OBJECT STRUCK
0	0.0	1	5.9	99- NO OBJECT INVOLVED
9	52.9	1	5.9	V1 THRU V9 VEHICLE 1 TO 9
0	0.0	0	0.0	<< NOT STATED
2	11.8	17	100.0	-- DOES NOT APPLY
0	0.0	0	0.0	- INVALID CODES

<------ LOCATION OF COLLISION ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
0	0.0	0	0.0	A-BEYOND MEDIAN OR STRIPE-LEFT
7	41.2	6	35.3	B-BEYOND SHLDER DRIVERS LEFT
0	0.0	0	0.0	C-LEFT SHOULDER AREA
3	17.6	0	0.0	D-LEFT LANE
0	0.0	0	0.0	E-INTERIOR LANES
8	47.1	1	5.9	F-RIGHT LANE
0	0.0	0	0.0	G-RIGHT SHOULDER AREA
1	5.9	0	0.0	H-BEYOND SHLDER DRIVERS RIGHT
0	0.0	0	0.0	I-GORE AREA
0	0.0	1	5.9	J-OTHER
0	0.0	0	0.0	V-HOV LANE(S)
0	0.0	0	0.0	W-HOV LANE BUFFER AREA
0	0.0	0	0.0	<-NOT STATED
3	17.6	17	100.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

<------ DRUG/PHYSICAL ------>

PRIMARY NUMBER	PRIMARY PCT	OTHERS NUMBER	OTHERS PCT	CODE
9	52.9	0	0.0	A-HAD NOT BEEN DRINKING
6	35.3	0	0.0	B-HBD - UNDER INFLUENCE
0	0.0	0	0.0	C-HBD - NOT UNDER INFLUENCE
0	0.0	0	0.0	D-HBD - IMPAIRMENT UNKNOWN
1	5.9	1	5.9	E-UNDER DRUG INFLUENCE
0	0.0	0	0.0	F-OTHER PHYSICAL IMPAIRMENT
3	17.6	0	0.0	G-IMPAIRMENT NOT KNOWN
0	0.0	0	0.0	H-NOT APPLICABLE
0	0.0	0	0.0	I-FATIGUE
1	5.9	16	94.1	< NOT STATED
0	0.0	0	0.0	--DOES NOT APPLY
0	0.0	0	0.0	-INVALID CODES

Appendix G

Freeway Safety Analysis – Detailed Results

Table G-1 SR 1 Northbound Mainline and Ramp Annual Number of Collisions Estimates

Location	Type	Existing (2019) – Annual Number of Collisions Estimate				Existing (2019) plus Build – Annual Number of Collisions Estimate				Opening Year (2025) No Build – Annual Number of Collisions Estimate				Opening Year (2025) Build – Annual Number of Collisions Estimate				Horizon Year (2045) No Build – Annual Number of Collisions Estimate				Horizon Year (2045) Build – Annual Number of Collisions Estimate			
		Total	Fatal	Injury	PDO	Total	Fatal	Injury	PDO	Total	Fatal	Injury	PDO	Total	Fatal	Injury	PDO	Total	Fatal	Injury	PDO	Total	Fatal	Injury	PDO
Larkin Valley Road to Freedom Boulevard	**Mainline**	**17.4**	0.0	6.5	10.9	**15.7**	0.0	5.9	9.9	**18.2**	0.0	6.8	11.4	**16.4**	0.0	6.1	10.3	**20.8**	0.0	7.8	13.0	**18.7**	0.0	7.0	11.7
Freedom Boulevard	Off-Ramp	**1.3**	0.0	0.3	1.0	**1.2**	0.0	0.3	0.9	**1.4**	0.0	0.3	1.0	**1.2**	0.0	0.3	0.9	**1.7**	0.0	0.4	1.3	**1.5**	0.0	0.3	1.1
Freedom	On-Ramp	**1.6**	0.0	0.5	1.1	**1.5**	0.0	0.5	1.0	**1.6**	0.0	0.5	1.1	**1.5**	0.0	0.5	1.0	**1.6**	0.0	0.5	1.1	**1.5**	0.0	0.5	1.0
Freedom Boulevard to Rio Del Mar Boulevard	**Mainline**	**13.9**	0.1	5.3	8.5	**9.7**	0.1	3.7	5.9	**14.4**	0.1	5.5	8.8	**10.0**	0.1	3.8	6.1	**16.1**	0.1	6.1	9.8	**11.1**	0.1	4.2	6.8
Rio Del Mar Boulevard	Off-Ramp	**1.2**	0.1	0.0	1.1	**1.1**	0.1	0.0	1.0	**1.3**	0.1	0.0	1.2	**1.1**	0.1	0.0	1.0	**1.4**	0.1	0.0	1.3	**1.3**	0.1	0.0	1.2
Rio Del Mar Boulevard	On-Ramp	**1.8**	0.0	0.5	1.3	**1.7**	0.0	0.5	1.2	**1.9**	0.0	0.5	1.4	**1.8**	0.0	0.5	1.3	**2.3**	0.0	0.6	1.7	**2.1**	0.0	0.6	1.5
Rio Del Mar Boulevard to State Park Drive	**Mainline**	**40.2**	0.0	15.0	25.2	**28.0**	0.0	10.4	17.6	**41.9**	0.0	15.6	26.2	**29.1**	0.0	10.9	18.2	**47.2**	0.0	17.6	29.6	**32.7**	0.0	12.2	20.5
Seacliff Drive	Off-Ramp	**0.9**	0.0	0.1	0.8	**0.8**	0.0	0.1	0.7	**0.9**	0.0	0.1	0.8	**0.8**	0.0	0.1	0.7	**1.0**	0.0	0.1	0.9	**0.9**	0.0	0.1	0.8
State Park Drive northbound	On-Ramp	**0.6**	0.0	0.2	0.4	**0.5**	0.0	0.2	0.4	**0.6**	0.0	0.2	0.4	**0.6**	0.0	0.2	0.4	**0.6**	0.0	0.2	0.4	**0.6**	0.0	0.2	0.4
State Park Drive southbound	On-Ramp	**1.4**	0.0	0.6	0.8	**1.3**	0.0	0.5	0.7	**1.4**	0.0	0.6	0.8	**1.3**	0.0	0.6	0.7	**1.5**	0.0	0.6	0.8	**1.3**	0.0	0.6	0.8
State Park Drive to Park Avenue	**Mainline**	**26.9**	0.1	9.2	17.6	**24.4**	0.1	8.3	16.0	**28.0**	0.1	9.6	18.3	**25.3**	0.1	8.7	16.6	**31.2**	0.1	10.7	20.4	**28.1**	0.1	9.6	18.4
	Total	**107.2**	0.3	38.2	68.7	**85.8**	0.3	30.4	55.2	**111.6**	0.3	39.8	71.5	**89.2**	0.3	31.5	57.4	**125.4**	0.3	44.7	80.4	**99.8**	0.3	35.3	64.2

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions) and TSAR Summary for SR 1 Ramps (with non-state route area 4), Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CMF Clearinghouse, SCCRTC and CDM Smith's Traffic Analysis.

Table G-2 SR 1 Southbound Mainline and Ramp Annual Number of Collisions Estimates

Location	Type	Existing (2019) – Annual Number of Collisions Estimate				Existing (2019) plus Build – Annual Number of Collisions Estimate				Opening Year (2025) No Build – Annual Number of Collisions Estimate				Opening Year (2025) Build – Annual Number of Collisions Estimate				Horizon Year (2045) No Build – Annual Number of Collisions Estimate				Horizon Year (2045) Build – Annual Number of Collisions Estimate			
		Total	Fatal	Injury	PDO	Total	Fatal	Total	PDO	Total	Fatal	Injury	PDO	Total	Fatal	Injury	PDO	Total	Fatal	Injury	Fatal	Total	Fatal	Injury	Fatal
Park Avenue to State Park Drive	**Mainline**	**16.9**	0.0	7.1	9.8	**15.3**	0.0	6.4	8.9	**17.8**	0.0	7.5	10.3	**16.1**	0.0	6.8	9.3	**20.3**	0.0	8.5	11.8	**18.3**	0.0	7.7	10.6
State Park Drive	Off-Ramp	**1.7**	0.0	0.8	0.9	**1.5**	0.0	0.7	0.8	**1.8**	0.0	0.8	0.9	**1.6**	0.0	0.7	0.8	**1.9**	0.0	0.9	1.0	**1.7**	0.0	0.8	0.9
State Park Drive southbound	On-Ramp	**0.7**	0.0	0.1	0.6	**0.6**	0.0	0.1	0.5	**0.7**	0.0	0.1	0.6	**0.7**	0.0	0.1	0.6	**0.8**	0.0	0.1	0.7	**0.7**	0.0	0.1	0.6
State Park Drive northbound	On-Ramp	**0.8**	0.1	0.4	0.3	**0.7**	0.1	0.4	0.3	**0.8**	0.1	0.4	0.3	**0.8**	0.1	0.4	0.3	**0.9**	0.1	0.5	0.3	**0.8**	0.1	0.4	0.3
State Park Drive to Rio Del Mar Boulevard	**Mainline**	**13.3**	0.0	4.2	9.1	**9.2**	0.0	2.9	6.3	**14.0**	0.0	4.4	9.6	**9.7**	0.0	3.1	6.6	**16.0**	0.0	5.0	10.9	**11.0**	0.0	3.5	7.5
Rio Del Mar Boulevard	Off-Ramp	**1.2**	0.0	0.4	0.8	**1.1**	0.0	0.4	0.7	**1.2**	0.0	0.4	0.8	**1.1**	0.0	0.4	0.8	**1.4**	0.0	0.5	0.9	**1.3**	0.0	0.4	0.8
Rio Del Mar Boulevard	On-Ramp	**0.8**	0.0	0.1	0.7	**0.7**	0.0	0.1	0.6	**0.8**	0.0	0.1	0.7	**0.7**	0.0	0.1	0.7	**0.9**	0.0	0.1	0.8	**0.8**	0.0	0.1	0.7
Rio Del Mar Boulevard to Freedom Boulevard	**Mainline**	**5.2**	0.1	1.3	3.8	**3.6**	0.1	0.9	2.6	**5.5**	0.1	1.4	4.0	**3.8**	0.1	0.9	2.8	**6.2**	0.1	1.6	4.5	**4.3**	0.1	1.1	3.1
Freedom Boulevard	Off-Ramp	**1.4**	0.0	0.4	1.0	**1.3**	0.0	0.4	0.9	**1.4**	0.0	0.4	1.0	**1.3**	0.0	0.4	0.9	**1.5**	0.0	0.4	1.1	**1.4**	0.0	0.4	1.0
Freedom Boulevard	On-Ramp	**0.2**	0.0	0.1	0.1	**0.2**	0.0	0.1	0.1	**0.2**	0.0	0.1	0.1	**0.2**	0.0	0.1	0.1	**0.2**	0.0	0.1	0.1	**0.2**	0.0	0.1	0.1
Freedom Boulevard to Larkin Valley Road	**Mainline**	**6.5**	0.0	1.5	5.0	**5.9**	0.0	1.4	4.5	**6.9**	0.0	1.6	5.3	**6.2**	0.0	1.4	4.8	**7.9**	0.0	1.8	6.1	**7.1**	0.0	1.6	5.5
	Total	**48.7**	0.2	16.4	32.1	**40.2**	0.2	13.7	26.3	**51.2**	0.2	17.2	33.8	**42.1**	0.2	14.4	27.6	**57.9**	0.2	19.5	38.2	**47.6**	0.2	16.2	31.2

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions) and TSAR Summary for SR 1 Ramps (with non-state route area 4), Caltrans' Mainline and Ramp Traffic Counts, AMBAG Travel Demand Model, CMF Clearinghouse, SCCRTC and CDM Smith's Traffic Analysis.

Table G-3a Actual Collision Rates on SR 1 Mainline Only versus Statewide Average Collision Rates over 10-Year Period, 2010-2019

Location	From PM	From Interchange	To PM	To Interchange	Actual Collision Rates			Statewide Average Collision Rates			Is Actual Collision Rate > Statewide Average Collision Rate?		
					Fatal	Fatal + Injury	Total	Fatal	Fatal + Injury	Total	Fatal	Fatal + Injury	Total
SR 1 northbound													
1	R 7.702	San Andreas Boulevard / Larkin Valley Road	8.355	Freedom Boulevard	0.000	0.60	1.60	0.005	0.20	0.59	NO	YES	YES
2	8.355	Freedom Boulevard	9.153	Rio Del Mar Boulevard	0.009	0.47	1.20	0.009	0.34	0.91	NO	YES	YES
3	9.153	Rio Del Mar Boulevard	10.535	State Park Drive	0.000	0.71	1.90	0.009	0.34	0.91	NO	YES	YES
4	10.535	State Park Drive	12.304	northbound on-ramp from Park Avenue	0.004	0.33	0.95	0.008	0.32	0.89	NO	YES	YES
SR 1 southbound													
5	11.951	southbound on-ramp from Park Avenue	10.535	State Park Drive	0.000	0.31	0.75	0.009	0.33	0.90	NO	NO	NO
6	10.535	State Park Drive	9.153	Rio Del Mar Boulevard	0.000	0.20	0.63	0.009	0.34	0.91	NO	NO	NO
7	9.153	Rio Del Mar Boulevard	8.355	Freedom Boulevard	0.009	0.12	0.45	0.009	0.34	0.91	NO	NO	NO
8	8.355	Freedom Boulevard	R 7.702	San Andreas Boulevard / Larkin Valley Road	0.000	0.14	0.60	0.005	0.20	0.59	NO	NO	YES

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – Table B Rates for SR 1 Mainline.

Table G-3b Actual Collision Rates on SR 1 Ramps Only versus Statewide Average Collisions Rates over 10-Year Period, 2010-2019

ID	Postmile	Interchange	Ramp Description	Actual Collision Rates			Statewide Average Collision Rates			Is Actual Collision Rate > Statewide Average Collision Rate?		
				Fatal	Fatal + Injury	Total	Fatal	Fatal + Injury	Total	Fatal	Fatal + Injury	Total
9	8.184	Hwy 1 @ Freedom Boulevard	northbound off-ramp to Freedom Boulevard	0.000	0.52	2.24	0.008	0.39	1.03	NO	YES	YES
10	8.271		southbound on-ramp from Freedom Boulevard	0.000	0.17	0.35	0.002	0.23	0.63	NO	NO	NO
11	8.494		northbound on-ramp from Freedom Boulevard	0.000	0.20	0.63	0.002	0.23	0.63	NO	NO	YES
12	8.611		southbound off-ramp to Freedom Boulevard	0.000	0.20	0.68	0.008	0.39	1.03	NO	NO	NO
13	9.011		southbound on-ramp from Rio Del Mar Boulevard	0.000	0.07	0.56	0.002	0.23	0.63	NO	NO	NO
14	9.024		northbound off-ramp to Rio Del Mar Boulevard	0.062	0.06	0.74	0.008	0.39	1.03	YES	NO	NO
15	9.264	Hwy 1 @ Rio Del Mar Boulevard	northbound on-ramp from Rio Del Mar Boulevard	0.000	0.25	0.89	0.002	0.23	0.63	NO	YES	YES
16	9.461		southbound off-ramp to Rio Del Mar Boulevard	0.000	0.17	0.52	0.008	0.39	1.03	NO	NO	NO
17	10.381		southbound on-ramp from Eastbound State Park Drive	0.157	0.79	1.26	0.004	0.24	0.70	YES	YES	YES
18	10.394		northbound off-ramp to State Park Drive	0.000	0.04	0.40	0.008	0.39	1.03	NO	NO	NO
19	10.504	Hwy 1 @ State Park Drive	northbound on-ramp from Eastbound State Park Drive	0.000	0.23	0.69	0.002	0.24	0.75	NO	NO	NO
20	10.561		southbound on-ramp from Westbound State Park Drive	0.000	0.06	0.45	0.002	0.24	0.75	NO	NO	NO
21	10.684		northbound on-ramp from Westbound State Park Drive	0.000	0.28	0.64	0.004	0.24	0.70	NO	YES	NO
22	10.711		southbound off-ramp to State Park Drive	0.000	0.28	0.59	0.008	0.39	1.03	NO	NO	NO

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – Table B Rates for SR 1 Ramps.

Table G-4a Number of Collisions by Severity on SR 1 Mainline over 10-Year Period, 2010-2019

Location	From PM	From Interchange	To PM	To Interchange	Number of Collisions by Severity			
					Fatal	Injury	PDO	Total
SR 1 northbound								
1	R 7.702	San Andreas Boulevard / Larkin Valley Road	8.355	Freedom Boulevard	0	65	109	**174**
2	8.355	Freedom Boulevard	9.153	Rio Del Mar Boulevard	1	53	85	**139**
3	9.153	Rio Del Mar Boulevard	10.535	State Park Drive	0	150	252	**402**
4	10.535	State Park Drive	12.304	northbound on-ramp from Park Avenue	1	92	176	**269**
Corridor wide					**2**	**360**	**622**	**984**
SR 1 southbound								
5	11.951	southbound on-ramp from Park Avenue	10.535	State Park Drive	0	71	98	**169**
6	10.535	State Park Drive	9.153	Rio Del Mar Boulevard	0	42	91	**133**
7	9.153	Rio Del Mar Boulevard	8.355	Freedom Boulevard	1	13	38	**52**
8	8.355	Freedom Boulevard	R 7.702	San Andreas Boulevard / Larkin Valley Road	0	15	50	**65**
Corridor wide					**1**	**141**	**277**	**419**

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions)

Table G-4b Number of Collisions by Severity on SR 1 Ramps over 10-Year Period, 2010-2019

ID	Postmile	Interchange	Ramp Description	Number of Collisions by Severity			
				Fatal	Injury	PDO	Total
9	8.184	Hwy 1 @ Freedom Boulevard	northbound off-ramp to Freedom Boulevard	0	3	10	**13**
10	8.271		southbound on-ramp from Freedom Boulevard	0	1	1	**2**
11	8.494		northbound on-ramp from Freedom Boulevard	0	5	11	**16**
12	8.611		southbound off-ramp to Freedom Boulevard	0	4	10	**14**
13	9.011		southbound on-ramp from Rio Del Mar Boulevard	0	1	7	**8**
14	9.024		northbound off-ramp to Rio Del Mar Boulevard	1	0	11	**12**
15	9.264	Hwy 1 @ Rio Del Mar Boulevard	northbound on-ramp from Rio Del Mar Boulevard	0	5	13	**18**
16	9.461		southbound off-ramp to Rio Del Mar Boulevard	0	4	8	**12**
17	10.381		southbound on-ramp from Eastbound State Park Drive	1	4	3	**8**
18	10.394		northbound off-ramp to State Park Drive	0	1	8	**9**
19	10.504	Hwy 1 @ State Park Drive	northbound on-ramp from Eastbound State Park Drive	0	2	4	**6**
20	10.561		southbound on-ramp from Westbound State Park Drive	0	1	6	**7**
21	10.684		northbound on-ramp from Westbound State Park Drive	0	6	8	**14**
22	10.711		southbound off-ramp to State Park Drive	0	8	9	**17**

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Ramps

Table G-5a Number of Collisions by Number of Vehicles Involved on SR 1 Mainline over 10-Year Period, 2010-2019

Location	From PM	From Interchange	To PM	To Interchange	Number of Collisions by Number of Vehicles Involved				
					1	2	3	> 3	Total
SR 1 northbound									
1	R 7.702	San Andreas Boulevard / Larkin Valley Road	8.355	Freedom Boulevard	37	115	14	8	**174**
2	8.355	Freedom Boulevard	9.153	Rio Del Mar Boulevard	32	83	20	4	**139**
3	9.153	Rio Del Mar Boulevard	10.535	State Park Drive	53	256	64	29	**402**
4	10.535	State Park Drive	12.304	northbound on-ramp from Park Avenue	53	172	33	11	**269**
Corridor wide					**175**	**626**	**131**	**52**	**984**
SR 1 southbound									
5	11.951	southbound on-ramp from Park Avenue	10.535	State Park Drive	49	95	20	5	**169**
6	10.535	State Park Drive	9.153	Rio Del Mar Boulevard	55	64	14	0	**133**
7	9.153	Rio Del Mar Boulevard	8.355	Freedom Boulevard	23	26	2	1	**52**
8	8.355	Freedom Boulevard	R 7.702	San Andreas Boulevard / Larkin Valley Road	36	29	0	0	**65**
Corridor wide					**163**	**214**	**36**	**6**	**419**

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions)

Table G-5b Number of Collisions by Number of Vehicles Involved on SR 1 Ramps over 10-Year Period, 2010-2019

ID	Postmile	Interchange	Ramp Description	Number of Collisions by Number of Vehicles Involved				
				1	2	3	> 3	Total
9	8.184	Hwy 1 @ Freedom Boulevard	northbound off-ramp to Freedom Boulevard	5	8	0	0	**13**
10	8.271		southbound on-ramp from Freedom Boulevard	1	1	0	0	**2**
11	8.494		northbound on-ramp from Freedom Boulevard	7	9	0	0	**16**
12	8.611		southbound off-ramp to Freedom Boulevard	4	7	3	0	**14**
13	9.011		southbound on-ramp from Rio Del Mar Boulevard	0	7	1	0	**8**
14	9.024		northbound off-ramp to Rio Del Mar Boulevard	2	10	0	0	**12**
15	9.264	Hwy 1 @ Rio Del Mar Boulevard	northbound on-ramp from Rio Del Mar Boulevard	2	15	1	0	**18**
16	9.461		southbound off-ramp to Rio Del Mar Boulevard	2	9	1	0	**12**
17	10.381		southbound on-ramp from Eastbound State Park Drive	6	1	1	0	**8**
18	10.394		northbound off-ramp to State Park Drive	4	5	0	0	**9**
19	10.504	Hwy 1 @ State Park Drive	northbound on-ramp from Eastbound State Park Drive	4	1	1	0	**6**
20	10.561		southbound on-ramp from Westbound State Park Drive	3	4	0	0	**7**
21	10.684		northbound on-ramp from Westbound State Park Drive	4	6	4	0	**14**
22	10.711		southbound off-ramp to State Park Drive	9	7	1	0	**17**

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Ramps

Table G-6a Number of Collisions by Primary Collision Factor on SR 1 Mainline over 10-Year Period, 2010-2019

Location	From PM	From Interchange	To PM	To Interchange	Number of Collisions by Primary Collision Factor*												
					1	2	3	4	5	6	B	C	D	E	<	Blank	Total
SR 1 northbound																	
1	R 7.702	San Andreas Boulevard / Larkin Valley Road	8.355	Freedom Boulevard	11	10	0	12	116	10	1	12	2	0	0	0	**174**
2	8.355	Freedom Boulevard	9.153	Rio Del Mar Boulevard	6	7	0	21	81	14	0	9	1	0	0	0	**139**
3	9.153	Rio Del Mar Boulevard	10.535	State Park Drive	16	33	1	32	273	33	0	12	2	0	0	0	**402**
4	10.535	State Park Drive	12.304	northbound on-ramp from Park Avenue	11	17	0	27	172	27	0	14	1	0	0	0	**269**
Corridor wide					**44**	**67**	**1**	**92**	**642**	**84**	**1**	**47**	**6**	**0**	**0**	**0**	**984**
SR 1 southbound																	
5	11.951	southbound on-ramp from Park Avenue	10.535	State Park Drive	14	5	0	31	93	16	0	8	2	0	0	0	**169**
6	10.535	State Park Drive	9.153	Rio Del Mar Boulevard	20	3	1	34	55	10	0	10	0	0	0	0	**133**
7	9.153	Rio Del Mar Boulevard	8.355	Freedom Boulevard	6	0	0	10	18	9	1	8	0	0	0	0	**52**
8	8.355	Freedom Boulevard	R 7.702	San Andreas Boulevard / Larkin Valley Road	8	2	0	17	22	6	0	10	0	0	0	0	**65**
Corridor wide					**48**	**10**	**1**	**92**	**188**	**41**	**1**	**36**	**2**	**0**	**0**	**0**	**419**

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions)

Primary Collision Factor*

1	Influence Alcohol
2	Follow too Close
3	Failure to Yield
4	Improper Turn
5	Speeding
6	Other Violations
B	Improper Driving
C	Other than Driver
D	Unknown
E	Fell Sleep
<	Not Stated
Blank	Invalid Codes

Table G-6b Number of Collisions by Primary Collision Factor on SR 1 Ramps over 10-Year Period, 2010-2019

ID	Postmile	Interchange	Ramp Description	Number of Collisions by Primary Collision Factor*												
				1	2	3	4	5	6	B	C	D	E	<	Blank	Total
9	8.184	Hwy 1 @ Freedom Boulevard	northbound off-ramp to Freedom Boulevard	1	0	1	3	6	2	0	0	0	0	0	0	**13**
10	8.271		southbound on-ramp from Freedom Boulevard	1	0	0	0	0	1	0	0	0	0	0	0	**2**
11	8.494		northbound on-ramp from Freedom Boulevard	1	0	5	3	5	2	0	0	0	0	0	0	**16**
12	8.611		southbound off-ramp to Freedom Boulevard	5	0	1	2	4	0	0	2	0	0	0	0	**14**
13	9.011		southbound on-ramp from Rio Del Mar Boulevard	0	0	1	0	4	3	0	0	0	0	0	0	**8**
14	9.024		northbound off-ramp to Rio Del Mar Boulevard	3	1	2	0	4	2	0	0	0	0	0	0	**12**
15	9.264	Hwy 1 @ Rio Del Mar Boulevard	northbound on-ramp from Rio Del Mar Boulevard	1	0	7	0	5	2	0	1	2	0	0	0	**18**
16	9.461		southbound off-ramp to Rio Del Mar Boulevard	0	1	0	1	5	4	0	1	0	0	0	0	**12**
17	10.381		southbound on-ramp from Eastbound State Park Drive	4	1	0	2	1	0	0	0	0	0	0	0	**8**
18	10.394		northbound off-ramp to State Park Drive	3	0	0	2	3	1	0	0	0	0	0	0	**9**
19	10.504	Hwy 1 @ State Park Drive	northbound on-ramp from Eastbound State Park Drive	2	0	0	1	2	1	0	0	0	0	0	0	**6**
20	10.561		southbound on-ramp from Westbound State Park Drive	0	0	1	2	4	0	0	0	0	0	0	0	**7**
21	10.684		northbound on-ramp from Westbound State Park Drive	0	0	1	2	10	1	0	0	0	0	0	0	**14**
22	10.711		southbound off-ramp to State Park Drive	8	0	0	1	3	5	0	0	0	0	0	0	**17**

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Ramps

Primary Collision Factor*

1	Influence Alcohol
2	Follow too Close
3	Failure to Yield
4	Improper Turn
5	Speeding
6	Other Violations
B	Improper Driving
C	Other than Driver
D	Unknown
E	Fell Sleep
<	Not Stated
Blank	Invalid Codes

Table G-7a Number of Collisions by Type of Collision on SR 1 Mainline over 10-Year Period, 2010-2019

Location	From PM	FROM Interchange	To PM	TO Interchange	Number of Collisions by Type of Collision**										
					A	B	C	D	E	F	G	H	<	Blank	Total
SR 1 northbound															
1	R 7.702	San Andreas Boulevard / Larkin Valley Road	8.355	Freedom Boulevard	0	13	123	0	28	4	0	6	0	0	**174**
2	8.355	Freedom Boulevard	9.153	Rio Del Mar Boulevard	0	18	84	0	29	3	0	5	0	0	**139**
3	9.153	Rio Del Mar Boulevard	10.535	State Park Drive	2	39	299	5	49	1	0	7	0	0	**402**
4	10.535	State Park Drive	12.304	northbound on-ramp from Park Avenue	0	25	178	3	52	3	0	8	0	0	**269**
Corridor wide					**2**	**95**	**684**	**8**	**158**	**11**	**0**	**26**	**0**	**0**	**984**
SR 1 southbound															
5	11.951	southbound on-ramp from Park Avenue	10.535	State Park Drive	1	20	92	1	40	11	0	4	0	0	**169**
6	10.535	State Park Drive	9.153	Rio Del Mar Boulevard	0	14	56	1	53	3	0	6	0	0	**133**
7	9.153	Rio Del Mar Boulevard	8.355	Freedom Boulevard	0	7	14	1	18	2	0	10	0	0	**52**
8	8.355	Freedom Boulevard	R 7.702	San Andreas Boulevard / Larkin Valley Road	0	9	19	1	31	2	0	2	1	0	**65**
Corridor wide					**1**	**50**	**181**	**4**	**142**	**18**	**0**	**22**	**1**	**0**	**419**

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Mainline (without Ramp related Collisions)

Type of Collision**

A	Head-On
B	Sideswipe
C	Rear-end
D	Broadside
E	Hit Object
F	Overturn
G	Auto-Pedestrian
H	Other
<	Not Stated
Blank	Invalid Codes

Table G-7b Number of Collisions by Type of Collision on SR 1 Ramps over 10-Year Period, 2010-2019

ID	Postmile	Interchange	Ramp Description	Number of Collisions by Type of Collision**										
				A	B	C	D	E	F	G	H	<	Blank	Total
9	8.184	Hwy 1 @ Freedom Boulevard	northbound off-ramp to Freedom Boulevard	0	1	6	1	5	0	0	0	0	0	**13**
10	8.271		southbound on-ramp from Freedom Boulevard	0	0	1	0	1	0	0	0	0	0	**2**
11	8.494		northbound on-ramp from Freedom Boulevard	1	1	4	2	5	2	1	0	0	0	**16**
12	8.611		southbound off-ramp to Freedom Boulevard	0	2	7	1	2	1	0	1	0	0	**14**
13	9.011		southbound on-ramp from Rio Del Mar Boulevard	2	1	5	0	0	0	0	0	0	0	**8**
14	9.024		northbound off-ramp to Rio Del Mar Boulevard	1	2	6	1	2	0	0	0	0	0	**12**
15	9.264	Hwy 1 @ Rio Del Mar Boulevard	northbound on-ramp from Rio Del Mar Boulevard	5	1	5	5	2	0	0	0	0	0	**18**
16	9.461		southbound off-ramp to Rio Del Mar Boulevard	0	0	7	2	1	0	0	2	0	0	**12**
17	10.381		southbound on-ramp from Eastbound State Park Drive	0	0	2	1	4	1	0	0	0	0	**8**
18	10.394		northbound off-ramp to State Park Drive	0	1	3	0	3	1	0	1	0	0	**9**
19	10.504	Hwy 1 @ State Park Drive	northbound on-ramp from Eastbound State Park Drive	0	1	2	0	3	0	0	0	0	0	**6**
20	10.561		southbound on-ramp from Westbound State Park Drive	0	0	3	1	2	1	0	0	0	0	**7**
21	10.684		northbound on-ramp from Westbound State Park Drive	0	1	10	0	2	0	1	0	0	0	**14**
22	10.711		southbound off-ramp to State Park Drive	0	1	6	2	7	0	1	0	0	0	**17**

Source: Caltrans' Jan 2010 to Dec 2019 TASAS Data – TSAR Summary for SR 1 Ramps

Type of Collision**

A	Head-On
B	Sideswipe
C	Rear-end
D	Broadside
E	Hit Object
F	Overturn
G	Auto-Pedestrian
H	Other
<	Not Stated
Blank	Invalid Codes