

*2021 Santa Cruz County
Regional Transportation Grants Program*

PROJECT APPLICATION PACKAGE FOR

SAN ANDREAS ROAD

365' S/O MANRESA STATE BEACH TO SUNSET BEACH RD

ROAD RESURFACING PROJECT



COUNTY OF SANTA CRUZ
DEPARTMENT OF



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**Project Study Report (Local Rehabilitation)
(For STIP Projects off the State Highway System)
San Andreas Road Resurfacing Project**

**PROJECT STUDY REPORT
(LOCAL REHABILITATION)
(For STIP Projects off the State Highway System)**

Responsible Agency: County of Santa Cruz

Project Name: San Andreas Road Resurfacing Project

APPROVED



Casey Carlson
Project Manager

1. Transportation Problem

The section of roadway proposed for work is significantly deteriorated and in need of immediate pavement rehabilitation, this project will extend the life of this road so that it may continue to benefit the community.

2. Route – Location – (Post Mile):

San Andreas Road

3. Description of Project Limits

San Andreas Road from 365' S/O Manresa State Beach to Sunset Beach Rd
Net Length: 3.01 Miles

4. Description of Project Scope

This project involves pavement rehabilitation of approximately 3.01 miles of San Andreas Rd, from 365' S/O Manresa State Beach to Sunset Beach Rd. The construction method used shall be isolated sections of digout and asphalt replacement where rutting has occurred, followed by resurfacing of the entire roadway surface, then restriping of the work area. Work shall extend from existing roadway edge to existing roadway edge.

5. Functional Classification/Federal-aid System

Federal-aid Highways

Urban Collector

Federal-aid System

On the National Highway System? Yes ___ No X

6. Environmental Status

Environmental Document Type (CEQA) CAT-EX (NEPA) N/A

Anticipated Completion Date 12/12/22

Environmental Issues:

None (System Maintenance)

7. Traffic Data (Estimated)

Current ADT 2667

% Trucks 4% (Assumed – no data available)

Current Design Hourly Volume Unknown

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8. Roadway Geometric Information

Will this project change existing geometrics? Yes _____ No X

If no, skip this section.

Facility	Minimum Curve Radius	Through Traffic Lanes		Paved Shoulder Width		Median Width
		No. of Lanes	Lane Width	Left	Right	
*Existing						
**Proposed						
Min. 3R or Local Stds.***						

* Enter EXISTING information (Expand as needed, for varied geometrics.)

** Enter PROPOSED information (Expand as needed, for varied geometrics.)

*** Refer to Chapter 11, "Design Standards," of the *Local Assistance Procedures Manual*.

If 3R or local Standards are not being met, briefly explain why:

N/A – No change to existing geometrics

9. Structure Information

Is bridge rehabilitation work included in this project? Yes _____ No X

If no, skip this section.

If 3R Standards for bridge width are not being met, briefly explain why:

N/A – No bridge rehabilitation work included

Funding source of bridge rehabilitation (if not STIP) N/A

10. Condition of Existing Facility (Repeat information for each homogeneous segment):

Project is pavement rehabilitation of existing roadway, average existing roadway PCI = 38 from most recent survey data.

11. Pavement Rehabilitation

Is any work on existing pavement included in this project? Yes X No _____

If no, skip this section.

Will the work extend the service life for at least 10 years? Yes X No _____

If work will not extend the service life for a least 10 years, briefly explain why:

NA

Structural Section Design method (i.e. *Caltrans Design Manual, Flexible Pavement Structural Section Design Guide for California Cities and Counties*, PMS strategy, other, i.e. local procedures.)

PMS Strategy/ Local Design Procedures

What are the consequences of not doing this project?

Roadway will continue to deteriorate until more expensive rehabilitation measures are required.

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12. Cost Estimate Breakdown

Cost

ENVIRONMENTAL STUDIES AND PERMITS

N/A – Project Exempt, Pavement Rehab Only – will obtain CEQA CAT-Ex

PLANS, SPECIFICATIONS, AND ESTIMATE

Not Estimated

RIGHT OF WAY

N/A – Project Exempt, all work within existing ROW

CONSTRUCTION (Engineer’s Estimate shown below)

COUNTY OF SANTA CRUZ						Sheet 1 of 1
DEPARTMENT OF PUBLIC WORKS						
ENGINEER’S ESTIMATE						
PROJECT: 2021 Consolidated Regional Transportation Grants Program					Made by	CRC
LOCATION: San Andreas Rd (365' S/O Manresa State Beach To Sunset Beach Rd)					Checked by	
DESCRIPTION: Road Resurfacing					Job Number	
					Bid Opening	
Item No.	Item Description	Unit	Quantity	Unit Price	Amount	
1	TRAFFIC CONTROL SYSTEM	LS	1	\$100,000.00	\$100,000.00	
2	4" DIGOUT	SF	52,247	\$7.60	\$397,073.51	
3	ASPHALT CONCRETE (TYPE A - 1/2" MAXIMUM, MEDIUM)	TON	3,802	\$185.00	\$703,367.02	
4	ASPHALT RUBBER CAPE SEAL	SY	54,793	\$7.50	\$410,945.83	
5	(S) THERMOPLASTIC STRIPING 12 IN WHITE	LF	30	\$5.50	\$165.00	
6	(S) THERMOPLASTIC STRIPING 12 IN YELLOW	LF	80	\$5.50	\$440.00	
7	(S) THERMOPLASTIC STRIPING-DETAIL 6 (DASHED CL)	LF	5,350	\$0.50	\$2,675.00	
8	(S) THERMOPLASTIC STRIPING-DETAIL 19 (ONE LANE PASSING CL)	LF	2,150	\$1.20	\$2,580.00	
9	(S) THERMOPLASTIC STRIPING-DETAIL 22 (DBL YELLOW)	LF	8,100	\$2.50	\$20,250.00	
10	(S) THERMOPLASTIC STRIPING-DETAIL 39 (BIKE LN)	LF	3,100	\$2.50	\$7,750.00	
11	(S) THERMOPLASTIC STRIPING-DETAIL 39A (BIKE LN DASH)	LF	700	\$2.00	\$1,400.00	
12	(S) THERMOPLASTIC STRIPING-PAVEMENT MARKINGS-WHITE	SF	130	\$6.00	\$780.00	
13	(S) THERMOPLASTIC STRIPING-PAVEMENT MARKINGS-YELLOW	SF	160	\$6.00	\$960.00	
14	(S) RETROREFLECTIVE PAVEMENT MARKER - BLUE TYPE BB	EA	5	\$100.00	\$500.00	
Funding Information			Contract Total	=	\$1,648,886	
Job Number	Source	Appropriation	Contingency	10%	\$164,889	
			Sub-Total	=	\$1,813,775	
			Inspection	10%	\$50,000	
			Sub-Total	=	\$1,863,775	

13. Scheduling

<u>Project Component</u>	<u>Start Date</u>	<u>Estimated Completion</u>
Environmental Studies and Permits	11/14/22	12/12/22
Plans, Specifications, and Estimate	1/16/23	4/10/23
Right of Way Acquisition	3/13/23	4/10/23
Construction	7/10/23	10/23/23

14. Other Agencies Involved: (Permits/Approvals from Fish & Game, Corps of Engineers, Coastal Commission, etc.) Pavement Rehab - CEQA Cat-Ex only

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15. Other Considerations

Utility and/or Railroad Involvement: N/A

Consistency with other planning: PMS, RTP, MTP/SCS

16. Proposed Funding

	Local Commitment	RSTPX	STIP Request	Total
Environmental Studies and Permits	N/A		N/A	N/A
Plans, Specifications and Estimate	N/A		N/A	N/A
Right of Way Acquisition (including support)	N/A		N/A	N/A
Construction (including support)	\$213,775	\$5,000	\$1,645,000	\$1,863,775
Total	\$213,775	\$5,000	\$1,645,000	\$1,863,775

Source(s) of Local Commitment: (Indicate Local Assistance Project Number if appropriate.)

County Road Fund

17. List of Attachments

A. Vicinity Map - Attached

B. PMS Inventory Data – See Below

For most recent PMS inventory data, see “2019 Pavement Management Report” at website shown below
<https://dpw.co.santa-cruz.ca.us/Home/TransportationRoads/MeasureDandSB1.aspx>

18. Report Preparation

Prepared by: Casey Carlson

Date: 12/10/21

This Project Study Report (Local Rehabilitation) has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.



[Handwritten Signature]

12/15/21

REGISTERED CIVIL ENGINEER

DATE



County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

701 OCEAN STREET, ROOM 410, SANTA CRUZ, CA 95060-4070
(831) 454-2160 FAX (831) 454-2385 TDD (831) 454-2123

MATT MACHADO
DEPUTY CAO
DIRECTOR OF PUBLIC WORKS

EXHIBIT 23-K LOCAL ROAD REHABILITATION PROJECT CERTIFICATION

To: Santa Cruz County Regional Transportation Commission
1523 Pacific Ave
Santa Cruz, CA 95060
Attn: Rachel Moriconi

Date : 9/21/21

The County of Santa Cruz submits the following local road rehabilitation project for certification that the project is in compliance with California Transportation Commission guidelines.

Project Description: San Andreas Road Resurfacing Project
Project will consist of Asphalt Digouts, Rubberized Cape Seal, and restriping of project roadways on the following road segments:

- San Andreas Rd (365' S/O Manresa State Beach To Sunset Beach Rd)

Street/Road (Noted Above)	From: (Noted Above) To: (Noted Above)	Local Road Facility	PPNO	Rehabilitation Strategy	Service Life (Years)
		Pavement Preservation	TBD	Rubberized Cape Seal	10

The project listed above meets the following standards:

- The type of work is eligible for local road rehabilitation, and excludes routine maintenance work, as described in Section 23.2.4 "Eligibility of Local Road Rehabilitation Projects", Chapter 23 of the Local Assistance Program Guidelines.
- For pavement rehabilitation, the estimated number of years the work will extend the service life of the facility is documented in a PSR or equivalent signed by a registered civil engineer.
- Pavement rehabilitation strategies with less than 10 years service life have been determined by a Pavement Management System (PMS) to be cost-effective and have a service life of 5 years or more.
- The work does not degrade any existing safety or geometric aspect of the facility.

City/County Signature:  Title: Senior Civil Engineer

Regional Transportation Planning Agency/County Transportation Commission Certification:

The SCCRTC (Regional Transportation Planning Agency/County Transportation Commission) certifies the projects listed above meet California Transportation Commission guidelines.

Signature:  Sr. Transportation Planner Date: 12/2/21



County of Santa Cruz

DEPARTMENT OF PUBLIC WORKS

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MATT MACHADO
DEPUTY CAO
DIRECTOR OF PUBLIC WORKS

EXHIBIT 23-L PAVEMENT MANAGEMENT SYSTEM (PMS) CERTIFICATION

STATE TRANSPORTATION IMPROVEMENT PROJECTS

To: Santa Cruz County Regional Transportation Commission
1523 Pacific Ave
Santa Cruz, CA 95060
Attn: Rachel Moriconi

Date: 9/21/21
PPNO: TBD

Project Description: San Andreas Road Resurfacing Project

Project will consist of Asphalt Digouts, Rubberized Cape Seal, and restriping of project roadways on the following road segments:

- San Andreas Rd (365' S/O Manresa State Beach To Sunset Beach Rd)

The County of Santa Cruz certifies that it has a Pavement Management System (PMS) and the project meets the criteria described in Section 23.2 of this chapter. A system must be in place to meet standards for pavement rehabilitation projects programmed in the STIP or RSTP/STBG.

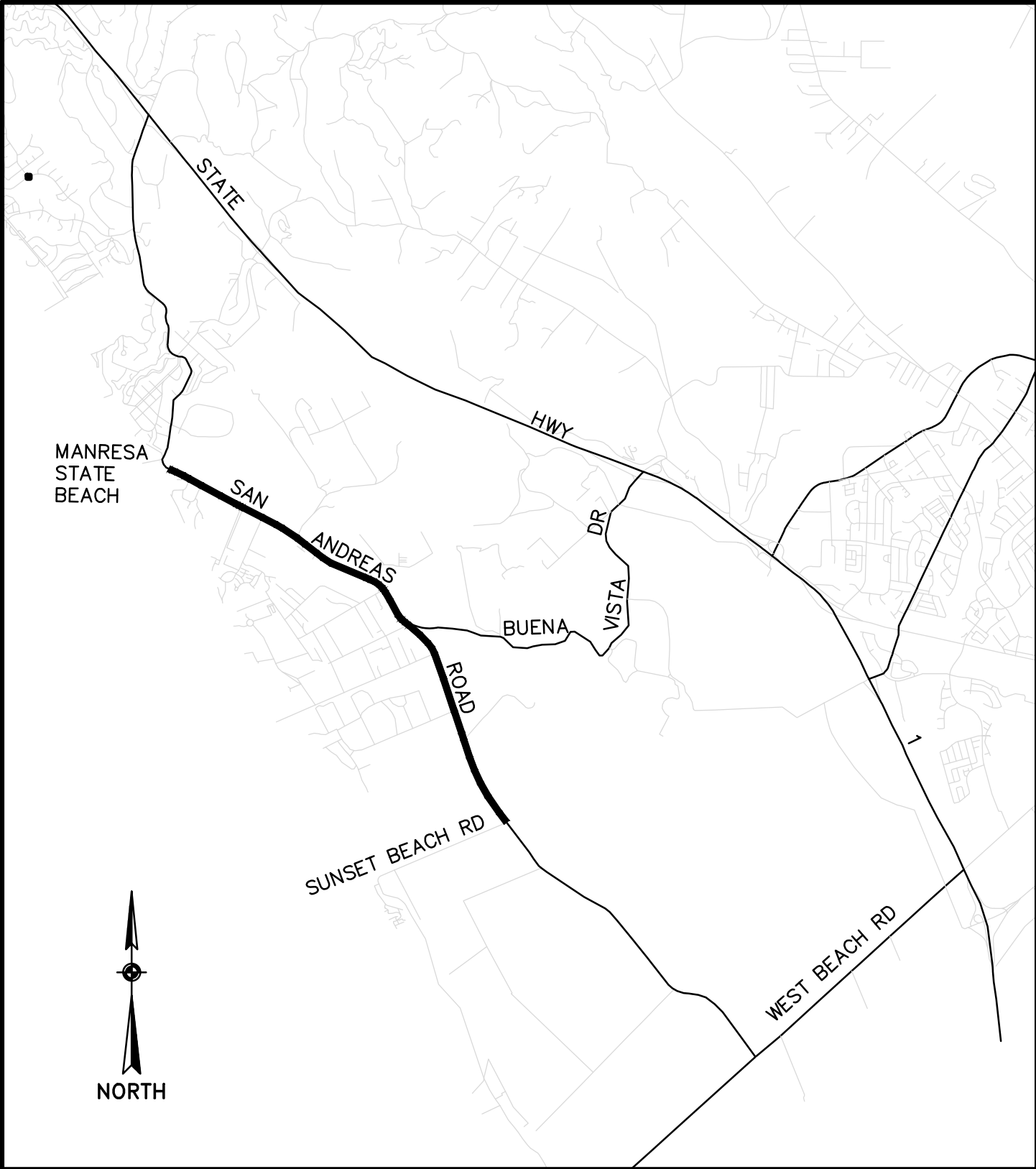
The system was developed by StreetSaver, MTC and contains, at a minimum, the following elements:

- Inventory of all existing pavements under the County jurisdiction.
Centerline miles 586
Total lane miles (or equivalent units) 1189
The last update of the inventory was completed May 2018
- Identification of sections of pavement needing rehabilitation
Total lane miles (or equivalent units) 925
- Estimate of the cost to rehabilitate deficient sections \$ 490,000,000
- A procedure to identify rehabilitation strategies that are cost effective

The County uses the StreetSaver pavement management system to catalog County maintained road sections and maintain pavement condition assessments of those sections using the Pavement Condition Index (PCI) ranking system. This program has a built in decision tree which specifies appropriate and cost effective resurfacing treatments for different PCI ranges. Based on the current PCI of the road section in question, the program can identify appropriate resurfacing techniques for that section.

You may direct any questions regarding the system to Casey Carlson at (831) 454-2160.
(Name) (Phone No.)

Signature  Title: Senior Civil Engineer



SAN ANDREAS ROAD

365' S/O MANRESA STATE BEACH TO SUNSET BEACH RD

2021 CONSOLIDATED REGIONAL TRANSPORTATION GRANT VICINITY MAP	DESIGN: CRC	DATE: 9/1/21	SHEET D1
	DRAFTING: CRC	SCALE: 1"=4000'	
	CHECKED:	JOB NO: -	

Part D – Site Photos (San Andreas Road)



Part D – Site Photos (San Andreas Road)



Part D – Site Photos (San Andreas Road)

