

Table 1: Results of Noise Modeling for the Tier I Corridor HOV Lane Alternative

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Predicted Noise Level with Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
					8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R1 – Vista Grande Drive, Aptos	57	58	59	No	N/A	N/A	N/A	N/A	N/A	N/A
R2 – Vista Grande Drive, Aptos	57	58	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R3 – Vista Grande Drive, Aptos	61	62	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R4 – Bonita Drive, Aptos	61	62	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R5 – Bonita Drive, Aptos	58	59	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R6 – Sonata Lane, Aptos	60	61	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R7 – Bonita Drive, Aptos	63	64	67	Yes	63	62	61	60	59	Feasible
R8 – Bonita Drive, Aptos	61	62	63	No	61	60	59	58	58	N/A
R9 – Bonita Drive, Aptos	64	65	68	Yes	64	63	62	61	60	Feasible
R10 – Encino Drive, Aptos	65	66	67	Yes	62	62	61	60	60	Feasible
R10A** – Encino Drive, Aptos	71	72	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R11 – Loma Prieta Drive, Aptos	73	73	75	Yes	74	74	74	73	73	Not Feasible
R12 – Encino Drive, Aptos	67	67	70	Yes	63	62	62	61	61	Feasible

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					8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R13 – Encino Drive, Aptos	66	66	69	Yes	69	69	69	68	68	Not Feasible
R14 – Soquel Drive, Aptos	60	62	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R15 – Bonita Drive, Aptos	61	60	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R16 – Bonita Drive, Aptos	67	66	67	Yes	64	63	62	61	60	Feasible
R17 – Bonita Drive, Aptos	71	70	70	Yes	67	66	65	63	63	Feasible
R18 – Bonita Drive, Aptos	69	68	71	Yes	68	67	66	65	63	Feasible
R18A – Bonita Drive, Aptos	64	64	66	Yes	65	64	64	62	59	Feasible
R19 – Bonita Drive, Aptos	63	63	65	No	63	62	61	58	57	Feasible
R20 – Bonita Drive, Aptos	70	70	72	Yes	69	67	66	64	63	Feasible
R21 – Loma Prieta Drive, Aptos	73	73	74	Yes	74	74	74	74	74	Not Feasible
R22 – Loma Prieta Drive, Aptos	70	70	71	Yes	71	71	71	71	71	Not Feasible
R24 – Soquel Drive, Aptos	57	58	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R25 – Soquel Drive, Aptos	63	64	65	No	62	61	60	59	58	Feasible
R26 – Soquel Drive, Aptos	69	70	71	Yes	64	62	61	60	59	Feasible

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R27 – Monroe Avenue, Aptos	68	69	71	Yes	71	70	69	68	67	Not Feasible
R28 – Monroe Avenue, Aptos	62	63	67	Yes	64	64	63	62	60	Feasible
R29 – Soquel Drive, Aptos	67	68	71	Yes	65	63	62	61	60	Feasible
R30 – Soquel Drive, Aptos	69	70	72	Yes	66	64	63	62	61	Feasible
R31 – Soquel Drive, Aptos	70	71	73	Yes	66	64	63	62	61	Feasible
R32 – Soquel Drive, Aptos	63	64	69	Yes	64	62	60	60	59	Feasible
R33 – Monroe Avenue, Aptos	66	67	69	Yes	68	67	67	66	64	Feasible
R34 – Monroe Avenue, Aptos	59	59	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R35 – Monroe Avenue, Aptos	72	72	75	Yes	74	74	74	74	74	Not Feasible
R35A – Monroe Avenue, Aptos	71	71	73	Yes	73	73	72	72	71	Not Feasible
R36 – Monroe Avenue, Aptos	72	72	73	Yes	72	71	70	68	66	Feasible
R37 – Robin Drive, Aptos	58	60	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R38 – Sandal Wood Drive, Aptos	61	63	68	Yes	64	62	62	61	60	Feasible
R39 – Coronado Drive, Aptos	55	56	58	No	N/A	N/A	N/A	N/A	N/A	N/A

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R39A – Palo Verde Court, Aptos	55	56	59	No	N/A	N/A	N/A	N/A	N/A	N/A
R40 – Soquel Drive, Aptos	67	70	73	Yes	73	73	73	73	73	Not Feasible
R40A – Soquel Drive, Aptos	70	73	77	Yes	66	63	62	62	61	Feasible
R41 – Soquel Drive, Aptos	70	73	77	Yes	66	64	63	63	62	Feasible
R42 – Carrera Circle, Aptos	74	76	79	Yes	69	68	66	65	64	Feasible
R43 – Carrera Circle, Aptos	61	63	63	No	58	57	57	56	55	Feasible
R44 – Carrera Circle, Aptos	65	67	70	Yes	64	62	60	59	58	Feasible
R45 – Moosehead Drive, Aptos	67	69	72	Yes	70	70	70	69	69	Not Feasible
R45A** – Moosehead Drive, Aptos	68	70	73	N/A	69	68	67	67	66	N/A
R46 – Moosehead Drive, Aptos	69	71	75	Yes	74	74	73	73	72	Not Feasible
R47 – Moosehead Drive/Route 1	72	74	77	No	N/A	N/A	N/A	N/A	N/A	N/A
R48 – Moosehead Drive/Route 1	72	74	76	No	68	68	64	63	62	N/A
R49 – Moosehead Drive, Aptos	67	69	73	Yes	66	66	64	64	63	Feasible
R50 – Moosehead Drive, Aptos	62	64	65	No	61	60	60	59	59	Feasible

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R51 – Seacliff Drive, Aptos	58	61	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R52 – Seacliff Drive, Aptos	71	74	77	Yes	68	68	68	67	67	Feasible
R53 – Seacliff Drive, Aptos	60	63	66	Yes	63	62	61	61	61	Feasible
R53A – Seacliff Drive, Aptos	61	64	68	Yes	62	61	60	60	59	Feasible
R54 – Seacliff Drive, Aptos	58	61	65	No	62	62	62	61	61	N/A
R55 – North Avenue, Aptos	57	60	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R56 – North Avenue, Aptos	53	56	59	No	N/A	N/A	N/A	N/A	N/A	N/A
R57 – North Avenue, Aptos	50	53	56	No	N/A	N/A	N/A	N/A	N/A	N/A
R58 – North Avenue, Aptos	49	52	55	No	N/A	N/A	N/A	N/A	N/A	N/A
R59 – Skate Park Drive, Aptos	53	56	59	No	N/A	N/A	N/A	N/A	N/A	N/A
R62 – Soquel Drive, Aptos	65	64	68	Yes	67	66	65	68	64	Not Feasible
R63 – Spreckels Drive, Aptos	72	71	72	Yes	66	65	67	63	62	Feasible
R64 – Spreckels Drive, Aptos	73	72	76	Yes	70	69	70	66	64	Feasible
R65 – Spreckels Drive, Aptos	77	76	80	Yes	72	71	69	67	66	Feasible

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R66 – Sailfish Drive, Aptos	63	66	67	Yes	64	63	62	61	60	Feasible
R66A – Sailfish Drive, Aptos	68	71	72	Yes	66	64	63	62	61	Feasible
R67 – Marlin Court, Aptos	65	68	68	Yes	64	62	61	60	60	Feasible
R67A – Sailfish Drive, Aptos	69	72	74	Yes	71	69	67	65	63	Feasible
R68 – Bonefish Court, Aptos	70	73	75	Yes	70	68	66	64	63	Feasible
R68A – Perch Way, Aptos	67	70	72	Yes	67	66	64	63	61	Feasible
R69 – Silverfish Court, Aptos	68	71	73	Yes	67	65	63	62	61	Feasible
R69A – Barkentine Court, Aptos	66	69	71	Yes	67	65	63	62	61	Feasible
R70 – Barkentine Court, Aptos	66	69	71	Yes	67	66	63	62	61	Feasible
R71 – Margaret Avenue, Aptos	66	70	73	Yes	68	66	64	63	62	Feasible
R72 – Margaret Avenue, Aptos	69	73	75	Yes	71	69	67	66	65	Feasible
R73 – Margaret Avenue, Aptos	59	63	67	Yes	63	62	62	61	61	Feasible
R74 – Mar Vista, Aptos	53	57	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R75 – Estates Drive, Aptos	63	63	66	Yes	65	64	63	63	63	Not Feasible

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R76 – Route 1, Aptos	65	67	70	Yes	66	65	65	64	64	Feasible
R77 – Route 1, Aptos	69	71	73	Yes	70	68	67	65	64	Feasible
R78 – Route 1, Aptos	67	69	72	Yes	68	66	65	64	63	Feasible
R78A – Route 1, Aptos	72	74	75	Yes	70	69	67	67	66	Feasible
R79 – Pinetree Lane, Aptos	57	59	62	No	60	59	58	58	57	N/A
R80 – Pinetree Lane, Aptos	59	61	64	No	63	62	61	61	60	N/A
R81 – Old Dominion Court, Aptos	65	68	70	Yes	67	66	64	64	63	Feasible
R82 – Old Dominion Court, Aptos	56	56	58	No	58	58	57	57	56	N/A
R83 – Soquel Drive, Aptos	60	60	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R84 – Primrose Street, Aptos	53	57	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R84A – Primrose Street, Aptos	53	57	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R85 – Primrose Street, Aptos	55	59	62	No	60	60	59	58	57	Feasible
R86 – Primrose Street, Aptos	57	61	64	No	63	62	60	60	59	Feasible

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R87 – Mar Vista, Aptos	62	66	68	Yes	68	67	65	64	63	Feasible
R88 – Millie Court, Aptos	65	69	71	Yes	66	65	63	62	62	Feasible
R89 – Mar Vista, Aptos	70	74	76	Yes	68	66	64	63	61	Feasible
R89A** – Mar Vista, Aptos	65	69	71	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R90 – Mar Vista, Aptos	69	73	74	Yes	67	65	64	62	61	Feasible
R91** – Mar Vista, Aptos	61	65	67	Yes	66	66	66	66	66	N/A
R92 – Borregas Drive, Aptos	62	66	68	Yes	67	66	64	64	63	Feasible
R93 – Borregas Drive, Aptos	71	75	76	Yes	67	65	64	63	61	Feasible
R94 – Estates Drive, Aptos	63	67	69	Yes	66	64	63	63	62	Feasible
R95 – Soquel Drive, Aptos	66	67	69	Yes	65	64	63	62	61	Feasible
R96 – Soquel Drive, Aptos	69	70	72	Yes	67	65	65	64	62	Feasible
R97 – Soquel Drive, Aptos	70	71	73	Yes	69	67	66	64	63	Feasible
R98 – Cabrillo College Drive, Aptos	71	72	75	Yes	73	72	71	70	68	Feasible
R99 – Cabrillo College Drive, Aptos	66	67	71	Yes	67	65	64	63	62	Feasible

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R100 – Willowbrook Lane, Aptos	73	73	74	Yes	69	67	66	65	64	Feasible
R101 – Willowbrook Lane, Aptos	74	74	76	Yes	71	69	68	66	66	Feasible
R102 – Willowbrook Lane, Aptos	73	73	75	Yes	71	70	69	69	68	Feasible
R103 – Sillis Court, Capitola	72	72	72	Yes	67	65	64	63	62	Feasible
R104 – Sutherland Lane, Capitola	72	72	73	Yes	64	63	62	62	61	Feasible
R105 – Callas Lane, Capitola	71	71	72	Yes	64	62	61	60	60	Feasible
R106 – Callas Lane, Capitola	73	73	74	Yes	67	65	64	63	62	Feasible
R107 – Callas Lane, Capitola	72	72	74	Yes	66	65	64	63	63	Feasible
R108 – Ponselle Lane, Capitola	74	74	76	Yes	72	71	71	71	71	Feasible
R109 – Plum Street, Capitola	61	61	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R110 – Chittenden Lane, Capitola	69	70	72	Yes	69	68	67	67	66	Feasible
R111 – Rosedale Avenue, Capitola	62	63	66	Yes	64	64	64	63	63	Not Feasible
R112 – Capitola Avenue, Capitola	62	63	66	Yes	N/A	N/A	N/A	63	62	Not Feasible
R113 – Capitola Avenue, Capitola	63	64	67	Yes	N/A	N/A	N/A	64	63	Not Feasible

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R114 – Capitola Avenue, Capitola	66	67	71	Yes	N/A	N/A	N/A	70	70	Not Feasible
R115 – Balboa Avenue, Capitola	61	62	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R116 – Balboa Avenue, Capitola	66	67	70	Yes	N/A	N/A	69	69	68	Not Feasible
R117 – Bay Avenue, Capitola	65	65	67	Yes	N/A	N/A	67	67	67	Not Feasible
R118 – Bay Avenue, Capitola	67	67	70	Yes	N/A	N/A	69	69	69	Not Feasible
R119 – Soquel Drive, Aptos	66	69	69	Yes	61	61	58	56	55	Feasible
R120 – Cabrillo College Drive, Soquel	61	64	66	Yes	62	61	60	59	58	Feasible
R121 – Alturas Way, Soquel	58	61	62	No	59	58	57	56	55	N/A
R122 – Monterey Avenue, Soquel	62	65	67	Yes	62	61	59	58	58	Feasible
R123 – Monterey Avenue, Soquel	63	66	68	Yes	63	61	60	59	58	Feasible
R124 – Monterey Avenue, Soquel	64	67	69	Yes	67	67	66	64	62	Feasible
R125 – Orchard Street, Soquel	65	68	71	Yes	64	63	62	61	61	Feasible
R126 – Orchard Street, Soquel	70	73	74	Yes	70	68	66	64	62	Feasible
R127 – Orchard Street, Soquel	69	72	75	Yes	66	64	63	61	60	Feasible

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R128 – Orchard Street, Soquel	67	68	69	Yes	66	64	63	61	60	Feasible
R129 – Orchard Street, Soquel	67	68	71	Yes	67	64	63	62	62	Feasible
R130 – Gary Drive, Soquel	65	70	73	Yes	64	63	62	62	61	Feasible
R131 – Gary Drive, Soquel	67	72	75	Yes	66	64	62	61	60	Feasible
R131A – Gary Drive, Soquel	67	72	74	Yes	65	63	62	61	59	Feasible
R132 – Gary Drive, Soquel	64	69	73	Yes	64	63	61	60	59	Feasible
R133 – Wilder Drive, Soquel	58	61	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R134 – Wilder Drive, Soquel	58	61	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R135 – Wilder Drive, Soquel	62	65	68	Yes	N/A	N/A	68	68	67	Not Feasible
R136 – Wilder Drive, Soquel	59	62	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R137 – Wharf Road, Soquel	67	69	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R138 – Wharf Road, Soquel	60	61	62	No	N/A	N/A	N/A	N/A	N/A	N/A
R139 – Wharf Road, Soquel	61	62	62	No	N/A	N/A	N/A	N/A	N/A	N/A
R140 – Wharf Road, Soquel	60	61	56	No	N/A	N/A	N/A	N/A	N/A	N/A

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R141 – Suncatcher Court, Soquel	60	63	68	Yes	65	64	64	64	63	Feasible
R142 – Suncatcher Court, Soquel	58	60	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R143 – Topsail Court, Soquel	69	69	72	Yes	64	62	61	60	59	Feasible
R144 – Rodeo Gulch Road, Santa Cruz	59	64	67	Yes	65	65	64	64	64	Not Feasible
R145 – Femm Way, Santa Cruz	56	61	64	No	62	62	62	62	62	N/A
R146A – Cory Street, Santa Cruz	57	58	66	Yes	63	62	61	61	61	Feasible
R146 – Mattison Lane, Santa Cruz	68	69	71	Yes	66	66	65	64	63	Feasible
R147 – Mattison Lane, Santa Cruz	76	77	80	Yes	70	68	66	65	64	Feasible
R148 – Mattison Lane, Santa Cruz	64	65	69	Yes	65	65	64	63	62	Feasible
R149 – Soquel Avenue, Santa Cruz	71	72	75	Yes	68	67	66	66	65	Feasible
R150 – Paul Minnie Avenue, Santa Cruz	68	69	72	Yes	67	66	65	64	64	Feasible
R151 – Soquel Avenue, Santa Cruz	56	57	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R153 – Soquel Avenue, Santa Cruz	62	63	66	Yes	62	61	61	60	59	Feasible
R154 – La Fonda, Santa Cruz	63	64	66	Yes	61	61	60	59	59	Feasible

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R155 – La Fonda, Santa Cruz	66	67	69	Yes	66	65	64	64	62	Feasible
R156 – La Fonda, Santa Cruz	59	60	63	No	61	61	61	60	59	N/A
R157 ¹ – La Fonda, Santa Cruz	76	77	78	Yes	N/A	N/A	N/A	N/A	N/A	N/A
R158A-1** – La Fonda, Santa Cruz	53	54	55	Yes	52	50	49	47	46	Feasible
R158A-2** – La Fonda, Santa Cruz	44	45	46	No	41	40	39	37	36	N/A
R158B – La Fonda, Santa Cruz	70	71	72	Yes	68	67	66	64	63	Feasible
R158 – Park Way, Santa Cruz	71	72	73	Yes	67	67	65	64	64	Feasible
R159 – Park Way, Santa Cruz	63	67	69	Yes	N/A	N/A	N/A	65	65	Not Feasible
R160 – Roxas Street, Santa Cruz	62	66	68	Yes	N/A	N/A	N/A	65	65	Not Feasible
R161 – Marnell Avenue, Santa Cruz	58	62	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R162 – San Juan Avenue, Santa Cruz	58	62	62	No	N/A	N/A	N/A	N/A	N/A	N/A
R163 – San Juan Avenue, Santa Cruz	56	60	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R164 – Pacheco Avenue, Santa Cruz	54	58	56	No	N/A	N/A	N/A	N/A	N/A	N/A
R165A – Salisbury Drive, Santa Cruz	59	62	66	Yes	61	60	60	59	58	Feasible

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R165 – Salisbury Drive, Santa Cruz	62	65	65	No	63	62	61	60	60	N/A
R166 – Oak Way, Santa Cruz	71	68	69	Yes	N/A	69	69	69	69	Not Feasible
R167 – Oak Way, Santa Cruz	66	63	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R167A – Oak Way, Santa Cruz	63	60	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R168 – Oak Way, Santa Cruz	62	59	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R169 – La Fonda Avenue, Santa Cruz	67	60	62	No	N/A	N/A	N/A	N/A	N/A	N/A
R170 – Holway Drive, Santa Cruz	64	57	59	No	N/A	N/A	N/A	N/A	N/A	N/A
R171 – Morrissey Boulevard, Santa Cruz	66	67	68	Yes	N/A	N/A	66	65	64	N/A
R172 – Morrissey Boulevard, Santa Cruz	66	67	68	Yes	N/A	N/A	N/A	68	68	N/A
R173 – Morrissey Boulevard, Santa Cruz	62	63	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R174 – Trevehan Avenue, Santa Cruz	63	64	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R175 – Morrissey Boulevard, Santa Cruz	62	63	64	No	N/A	N/A	N/A	N/A	N/A	N/A

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Predicted Noise Level with Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
					8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R176 – San Juan Avenue, Santa Cruz	62	63	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R176A – Pacheco Avenue, Santa Cruz	64	65	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R178 – Fairmount Avenue, Santa Cruz	54	58	57	No	N/A	N/A	N/A	N/A	N/A	N/A
R179 – Fairmount Avenue, Santa Cruz	55	59	59	No	N/A	N/A	N/A	N/A	N/A	N/A
R180 – Fairmount Avenue, Santa Cruz	58	62	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R181 – Fairmount Avenue, Santa Cruz	54	58	59	No	N/A	N/A	N/A	N/A	N/A	N/A
R182 – Dellview Avenue, Santa Cruz	55	59	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R183 – Elk Street, Santa Cruz	61	65	66	Yes	N/A	N/A	N/A	65	64	Not Feasible
R184 – Elk Street, Santa Cruz	64	68	68	Yes	N/A	N/A	N/A	65	64	Not Feasible
R185 – Rooney Street, Santa Cruz	62	66	68	Yes	N/A	N/A	N/A	66	65	Not Feasible
R186 – Rooney Street, Santa Cruz	60	64	66	Yes	N/A	N/A	N/A	N/A	65	Not Feasible
R187 – Rooney Street, Santa Cruz	60	64	66	Yes	N/A	N/A	N/A	N/A	65	Not Feasible

* Reasonableness and feasibility of soundwalls would be identified in each future Tier II environmental document prepared for future phases of the HOV Lane Alternative.

** Measurement or modeling purposes only; no outdoor use area.

¹This receiver was identified as “severely impacted” receiver as part of Highway 1 Soquel to Morrissey Auxiliary Lane Project, and noise mitigation were provided. No further action is required.

Table 2: Results of Noise Modeling for the Tier I Corridor TSM Alternative

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R1 – Vista Grande Drive, Aptos	54								
R2 – Vista Grande Drive, Aptos	55								
R3 – Vista Grande Drive, Aptos	58								
R4 – Bonita Drive, Aptos	59								
R5 – Bonita Drive, Aptos	56								
R6 – Sonata Lane, Aptos	59								
R7 – Bonita Drive, Aptos	63								
R8 – Bonita Drive, Aptos	60								
R9 – Bonita Drive, Aptos	64								
R10 – Encino Drive, Aptos	64								
R10A** – Encino Drive, Aptos	71								
R11 – Loma Prieta Drive, Aptos	74								
R12 – Encino Drive, Aptos	68								
R13 – Encino Drive, Aptos	68								
R14 – Soquel Drive, Aptos	60								

No Changes in Roadway or Ramp Alignments

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R15 – Bonita Drive, Aptos	61	62	No	N/A	N/A	N/A	N/A	N/A	N/A
R16 – Bonita Drive, Aptos	65	65	No	64	62	61	60	59	N/A
R17 – Bonita Drive, Aptos	68	70	Yes	66	65	63	62	61	Feasible
R18 – Bonita Drive, Aptos	69	70	Yes	68	67	65	63	61	Feasible
R18A – Bonita Drive, Aptos	64	65	No	64	63	63	61	58	N/A
R19 – Bonita Drive, Aptos	63	64	No	62	61	60	57	55	N/A
R20 – Bonita Drive, Aptos	70	72	Yes	69	67	65	63	62	Feasible
R21 – Loma Prieta Drive, Aptos	72	73	Yes	73	73	73	72	72	Not Feasible
R22 – Loma Prieta Drive, Aptos	69	70	Yes	70	69	68	67	66	Not Feasible
R23 – Loma Prieta Drive, Aptos	66	66	Yes	65	65	65	65	64	Not Feasible
R24 – Soquel Drive, Aptos	58	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R25 – Soquel Drive, Aptos	63	66	Yes	63	62	61	59	58	Not Feasible
R26 – Soquel Drive, Aptos	68	72	Yes	65	63	62	61	60	Not Feasible
R27 – Monroe Avenue, Aptos	68	71	Yes	71	70	69	68	67	Not Feasible
R28 – Monroe Avenue, Aptos	64	64	No	64	63	62	60	59	N/A
R29 – Soquel Drive, Aptos	68	72	Yes	65	63	62	61	60	Not Feasible
R30 – Soquel Drive, Aptos	69	72	Yes	66	64	63	62	61	Not Feasible

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R31 – Soquel Drive, Aptos	71	74	Yes	66	64	63	62	61	Not Feasible
R32 – Soquel Drive, Aptos	66	67	Yes	61	59	59	58	57	Not Feasible
R33 – Monroe Avenue, Aptos	67	69	Yes	67	67	65	65	63	Not Feasible
R34 – Monroe Avenue, Aptos	59	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R35 – Monroe Avenue, Aptos	71	71	Yes	71	71	71	70	70	Not Feasible
R36 – Monroe Avenue, Aptos	67	70	Yes	69	68	66	64	62	Not Feasible
R37 – Robin Drive, Aptos	58	59	No	N/A	N/A	N/A	N/A	N/A	N/A
R38 – Sandal Wood Drive, Aptos	63	69	Yes	63	61	60	60	59	Not Feasible
R39 – Coronado Drive, Aptos	55	59	No	N/A	N/A	N/A	N/A	N/A	N/A
R39A – Palo Verde Court, Aptos	55	57	No	N/A	N/A	N/A	N/A	N/A	N/A
R40 - Soquel Drive, Aptos	68	71	Yes	68	68	67	67	66	Feasible
R40A – Soquel Drive, Aptos	71	75	Yes	66	64	62	61	60	Feasible
R41 – Soquel Drive, Aptos	70	74	Yes	63	62	61	60	59	Feasible
R42 – Carrera Circle, Aptos	74	77	Yes	67	66	64	63	62	Feasible
R43 – Carrera Circle, Aptos	58	61	No	57	56	56	55	55	N/A
R44 – Carrera Circle, Aptos	65	68	Yes	62	60	59	58	57	Feasible
R45 – Moosehead Drive, Aptos	68	72	Yes	69	68	68	68	67	Feasible

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R45A**– Moosehead Drive, Aptos	68	73	Yes	67	66	66	65	64	Not Feasible
R46 – Moosehead Drive, Aptos	70	73	Yes	72	71	71	71	70	Not Feasible
R47 – Moosehead Drive/Route 1	72	76	No	N/A	N/A	N/A	N/A	N/A	N/A
R48 – Moosehead Drive/Route 1	74	78	No	N/A	N/A	N/A	N/A	N/A	N/A
R49 – Moosehead Drive, Aptos	66	70	Yes	65	64	63	62	62	Feasible
R50 – Moosehead Drive, Aptos	59	63	No	67	59	58	58	57	N/A
R51 – Seacliff Drive, Aptos	58	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R52 – Seacliff Drive, Aptos	73	76	Yes	67	67	66	66	66	Feasible
R53 – Seacliff Drive, Aptos	63	64	No	61	61	60	60	59	N/A
R54 – Seacliff Drive, Aptos	64	66	Yes	64	63	63	63	63	Not Feasible
R55 – North Avenue, Aptos	61	64	No	62	61	61	61	60	N/A
R56 – North Avenue, Aptos	57	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R57 – North Avenue, Aptos	54	57	No	N/A	N/A	N/A	N/A	N/A	N/A
R58 – North Avenue, Aptos	53	56	No	N/A	N/A	N/A	N/A	N/A	N/A
R59 – Skate Park Drive, Aptos	62	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R62 – Soquel Drive, Aptos	63	66	Yes	64	62	62	60	59	Feasible
R63 – Spreckels Drive, Aptos	72	74	Yes	66	64	63	62	61	Feasible

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R64 – Spreckels Drive, Aptos	75	76	Yes	70	69	68	67	67	Feasible
R65 – Spreckels Drive, Aptos	80	78	Yes	69	67	66	65	64	Feasible
R66 – Sailfish Drive, Aptos	65	67	Yes	63	61	59	58	57	Feasible
R67 – Marlin Court, Aptos	69	71	Yes	69	66	64	62	60	Feasible
R68 – Bonefish Court, Aptos	70	72	Yes	67	65	63	61	60	Feasible
R69 – Silverfish Court, Aptos	69	71	Yes	64	62	60	59	58	Feasible
R70 – Barkentine Court, Aptos	68	70	Yes	64	62	60	59	58	Feasible
R71 – Margaret Avenue, Aptos	70	72	Yes	65	63	61	60	59	Feasible
R72 – Margaret Avenue, Aptos	69	74	Yes	70	68	65	63	62	Feasible
R73 – Margaret Avenue, Aptos	61	66	Yes	61	60	59	58	57	Feasible
R74 – Mar Vista, Aptos	55	61	No	56	55	55	54	54	N/A
R75 – Estates Drive, Aptos	63	64	No	60	59	57	56	55	N/A
R76 – Route 1, Aptos	65	67	Yes	62	61	60	59	58	Feasible
R77 – Route 1, Aptos	68	71	Yes	67	65	63	62	61	Feasible
R78 – Route 1, Aptos	67	69	Yes	64	63	62	60	59	Feasible
R78A – Route 1, Aptos	70	71	Yes	67	65	64	63	62	Feasible
R79 – Pinetree Lane, Aptos	60	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R80 – Pinetree Lane, Aptos	59	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R81 – Old Dominion Court, Aptos	65	66	Yes	64	62	61	59	59	Feasible

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R82 – Old Dominion Court, Aptos	56	55	No	53	53	52	51	50	N/A
R83 – Soquel Drive, Aptos	60	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R84 – Primrose Street, Aptos	62	62	No	N/A	N/A	N/A	N/A	N/A	N/A
R84A – Primrose Street, Aptos	63	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R85 – Primrose Street, Aptos	64	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R86 – Primrose Street, Aptos	65	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R87 – Mar Vista, Aptos	65	65	No	63	63	62	60	59	N/A
R88 – Millie Court, Aptos	69	70	Yes	67	65	64	62	60	Feasible
R89 – Mar Vista, Aptos	71	74	Yes	64	62	61	60	59	Feasible
R90 – Mar Vista, Aptos	70	74	Yes	67	65	63	61	60	Feasible
R91 – Mar Vista, Aptos	65	69	Yes	69	66	62	59	57	Feasible
R92 – Borregas Drive, Aptos	63	66	Yes	60	59	58	57	56	Feasible
R93 – Borregas Drive, Aptos	71	75	Yes	65	63	62	60	59	Feasible
R94 – Estates Drive, Aptos	64	68	Yes	62	60	59	58	58	Feasible
R95 – Soquel Drive, Aptos	64	67	Yes	63	62	61	59	58	Feasible
R96 – Soquel Drive, Aptos	66	69	Yes	65	63	62	61	60	Feasible
R97 – Soquel Drive, Aptos	68	72	Yes	67	65	64	62	61	Feasible

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R98 – Cabrillo College Drive, Aptos	71	72	Yes	70	69	67	66	64	Feasible
R99 – Cabrillo College Drive, Aptos	67	68	Yes	63	62	61	60	59	Feasible
R100 – Willowbrook Lane, Aptos	73	72	Yes	65	64	63	61	60	Feasible
R101 – Willowbrook Lane, Aptos	74	72	Yes	67	66	65	63	62	Feasible
R102 – Willowbrook Lane, Aptos	74	73	Yes	68	67	66	65	65	Feasible
R103 – Sillis Court, Capitola	70	72	Yes	66	65	64	62	61	Feasible
R104 – Sutherland Lane, Capitola	71	72	Yes	63	62	61	60	59	Feasible
R105 – Callas Lane, Capitola	70	71	Yes	63	61	60	59	58	Feasible
R106 – Callas Lane, Capitola	71	71	Yes	66	64	63	62	61	Feasible
R107 – Callas Lane, Capitola	72	73	Yes	65	64	63	62	61	Feasible
R108 – Ponselle Lane, Capitola	74	75	Yes	71	70	69	67	66	Not Feasible
R109 – Plum Street, Capitola	61	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R110 – Chittenden Lane, Capitola	68	72	Yes	69	68	67	67	66	Feasible
R111 – Rosedale Avenue, Capitola	62	65	No	63	62	60	60	59	N/A
R112 – Capitola Avenue, Capitola	62	65	No	64	64	63	62	61	N/A
R113 – Capitola Avenue, Capitola	63	66	Yes	N/A	N/A	64	63	62	Not Feasible
R114 – Capitola Avenue, Capitola	67	69	Yes	N/A	N/A	68	68	68	Not Feasible

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R115 – Balboa Avenue, Capitola	61	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R116 – Balboa Avenue, Capitola	66	68	Yes	N/A	N/A	68	67	67	Not Feasible
R117 – Bay Avenue, Capitola	65	66	Yes	N/A	N/A	65	65	65	Not Feasible
R118 – Bay Avenue, Capitola	68	69	Yes	N/A	N/A	67	67	67	Not Feasible
R119 – Soquel Drive, Aptos	62	68	Yes	62	60	59	58	58	Feasible
R120 – Cabrillo College Drive, Soquel	59	65	No	61	60	59	59	58	N/A
R121 – Alturas Way, Soquel	55	62	No	60	59	59	59	58	N/A
R122 – Monterey Avenue, Soquel	61	65	No	63	61	60	59	58	N/A
R123 – Monterey Avenue, Soquel	63	66	Yes	64	61	60	59	59	Feasible **
R124 – Monterey Avenue, Soquel	64	70	Yes	68	67	66	64	63	Feasible **
R125 – Orchard Street, Soquel	66	69	Yes	64	63	62	61	61	Feasible
R126 – Orchard Street, Soquel	69	75	Yes	68	66	65	63	62	Feasible
R127 – Orchard Street, Soquel	69	75	Yes	67	65	64	63	61	Feasible
R128 – Orchard Street, Soquel	63	70	Yes	67	65	63	62	61	Feasible
R129 – Orchard Street, Soquel	65	71	Yes	68	65	64	63	62	Feasible **
R130 – Gary Drive, Soquel	61	67	Yes	N/A	N/A	64	64	63	Not Feasible
R131 – Gary Drive, Soquel	67	67	Yes	N/A	N/A	65	64	63	Not Feasible

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R132 – Gary Drive, Soquel	66	66	Yes	N/A	N/A	65	63	63	Not Feasible
R133 – Wilder Drive, Soquel	58	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R134 – Wilder Drive, Soquel	58	62	No	N/A	N/A	N/A	N/A	N/A	N/A
R135 – Wilder Drive, Soquel	63	66	Yes	N/A	N/A	66	66	66	Not Feasible
R136 – Wilder Drive, Soquel	58	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R137 – Wharf Road, Soquel	64	68	Yes	63	62	62	62	61	Feasible **
R138 – Wharf Road, Soquel	56	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R139 – Wharf Road, Soquel	57	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R140 – Wharf Road, Soquel	55	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R141 – Suncatcher Court, Soquel	58	66	Yes	62	62	61	59	59	Feasible
R142 – Suncatcher Court, Soquel	58	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R143 – Topsail Court, Soquel	70	72	Yes	64	62	61	60	59	Feasible
R144 – Rodeo Gulch Road, Santa Cruz	59	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R145 – Femm Way, Santa Cruz	58	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R146A – Cory Street, Santa Cruz	57	60	No	N/A	N/A	N/A	N/A	N/A	N/A
R146 – Mattison Lane, Santa Cruz	66	69	Yes	65	64	63	61	61	Feasible
R147 – Mattison Lane, Santa Cruz	74	78	Yes	66	64	63	62	61	Feasible

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R148 – Mattison Lane, Santa Cruz	64	67	Yes	64	63	62	61	61	Feasible
R149 – Soquel Avenue, Santa Cruz	73	75	Yes	68	66	66	65	64	Feasible
R150 – Paul Minnie Avenue, Santa Cruz	70	71	Yes	67	65	64	63	63	Feasible **
R151 – Soquel Avenue, Santa Cruz	57	58	No	N/A	N/A	N/A	N/A	N/A	N/A
R153 – Soquel Avenue, Santa Cruz	61	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R154 – La Fonda, Santa Cruz	63	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R155 – La Fonda, Santa Cruz	67	69	Yes	65	65	64	64	63	Feasible
R156 – La Fonda, Santa Cruz	59	61	No	61	61	61	60	60	N/A
R157 ¹ – La Fonda, Santa Cruz	75	77	Yes	N/A	N/A	N/A	N/A	N/A	N/A
R158 – Park Way, Santa Cruz	69	73	Yes	68	67	66	66	65	Feasible
R159 – Park Way, Santa Cruz	74	70	Yes	N/A	N/A	N/A	66	66	Not Feasible
R160 – Roxas Street, Santa Cruz	73	69	Yes	N/A	N/A	N/A	66	65	Not Feasible
R161 – Marnell Avenue, Santa Cruz	70	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R162 – San Juan Avenue, Santa Cruz	68	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R163 – San Juan Avenue, Santa Cruz	67	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R164A – Pacheco Avenue, Santa Cruz	64	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R164 – Pacheco Avenue, Santa Cruz	64	61	No	N/A	N/A	N/A	N/A	N/A	N/A

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R165A – Salisbury Drive, Santa Cruz	58	67	Yes	64	64	63	62	62	Feasible
R165 – Salisbury Drive, Santa Cruz	59	69	Yes	64	64	63	63	63	Feasible
R166 – Oak Way, Santa Cruz	63	73	Yes	N/A	N/A	N/A	N/A	N/A	Not Feasible
R167 – Oak Way, Santa Cruz	65	76	Yes	67	66	64	64	63	N/A
R168 – Oak Way, Santa Cruz	69	78	Yes	71	71	69	68	66	N/A
R169 – La Fonda Avenue, Santa Cruz	67	76	Yes	69	69	69	68	67	N/A
R170 – Holway Drive, Santa Cruz	65	71	Yes	68	67	64	63	62	N/A
R171 – Morrissey Boulevard, Santa Cruz	75	68	Yes	N/A	N/A	65	64	63	N/A
R172 – Morrissey Boulevard, Santa Cruz	76	69	Yes	N/A	N/A	68	67	66	Not Feasible
R173 – Morrissey Boulevard, Santa Cruz	70	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R174 – Trevehan Avenue, Santa Cruz	72	66	Yes	N/A	N/A	N/A	N/A	65	Not Feasible
R175 – Morrissey Boulevard, Santa Cruz	69	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R176 – San Juan Avenue, Santa Cruz	69	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R176A – Pacheco Avenue, Santa Cruz	71	65	No	N/A	N/A	N/A	N/A	N/A	N/A
R178 – Fairmount Avenue, Santa Cruz	73	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R179 – Fairmount Avenue, Santa Cruz	71	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R180 – Fairmount Avenue, Santa Cruz	71	65	No	N/A	N/A	N/A	N/A	N/A	N/A

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Feasibility*
				8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R181 – Fairmount Avenue, Santa Cruz	72	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R182 – Dellview Avenue, Santa Cruz	73	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R183 – Elk Street, Santa Cruz	73	63	No	N/A	N/A	N/A	N/A	N/A	N/A
R184 – Elk Street, Santa Cruz	75	67	Yes	N/A	N/A	N/A	67	67	Not Feasible
R185 – Rooney Street, Santa Cruz	72	64	No	N/A	N/A	N/A	N/A	N/A	N/A
R186 – Rooney Street, Santa Cruz	69	61	No	N/A	N/A	N/A	N/A	N/A	N/A
R187 – Rooney Street, Santa Cruz	70	62	No	N/A	N/A	N/A	N/A	N/A	N/A

* Reasonableness and feasibility of soundwalls would be identified in each future Tier II environmental document that is prepared for future phases of the TSM Alternative.

** Measurement or modeling purposes only; no outdoor use area.

¹This receiver was identified as “severely impacted” receiver as part of Highway 1 Soquel to Morrissey Auxiliary Lane Project, and noise mitigation were provided. No further action is required.

Table 3: Results of Noise Modeling for the Tier II Auxiliary Lane Alternative

Receptor # and Location	Existing Noise Level (dBA)	Predicted Noise Level without Project (dBA)	Predicted Noise Level with Project (dBA)	Noise Impact Requiring Abatement Consideration	Predicted Noise Level with Abatement (dBA)					Reasonable and Feasible
					8-foot Wall	10-foot Wall	12-foot Wall	14-foot Wall	16-foot Wall	
R144 – Rodeo Gulch Road, Santa Cruz	61	61	61	No	60	60	60	60	60	N/A
R145 – Femm Way, Santa Cruz	60	60	61	No	61	61	61	61	61	N/A
R146A – Cory Street, Santa Cruz	59	60	60	No	60	60	60	60	60	N/A
R146 – Mattison Lane, Santa Cruz	63	67	67	Yes	63	63	62	61	60	Feasible, Not Reasonable
R147A – Mattison Lane, Santa Cruz	62	66	66	Yes	63	62	62	61	60	Feasible, Not Reasonable
R147B – Mattison Lane, Santa Cruz	69	72	73	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R147 – Mattison Lane, Santa Cruz	67	75	75	Yes	66	65	63	62	61	Feasible, Not Reasonable
R148 – Mattison Lane, Santa Cruz	64	65	65	No	62	62	61	60	60	N/A
R149 – Soquel Avenue, Santa Cruz	70	70	71	Yes	67	66	66	65	65	Feasible, Not Reasonable
R150 – Paul Minnie Avenue, Santa Cruz	70	70	70	Yes	65	65	64	64	64	Feasible, Not Reasonable
R150A – Paul Minnie Avenue, Santa Cruz	71	71	71	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R151 – Soquel Avenue, Santa Cruz	57	57	57	No	55	55	55	54	54	N/A