

<b>RTIP ID# (required):</b> RIV041052				
<b>TCWG Consideration Date:</b> June 25, 2019				
<b>Project Description (clearly describe project)</b> The Moreno Project Phase 2 (EA 32303) is proposing to provide a westbound (WB) off-ramp to Moreno Beach Drive, north of State Route (SR) 60. Also at Moreno Beach Drive, a loop on-ramp with auxiliary lane for northbound (NB) traffic and a direct on-ramp for southbound (SB) traffic are proposed for vehicles to complete the SB Moreno Beach Drive to WB SR-60 movement. A traffic signal would be provided at the intersection of these ramps with Moreno Beach Drive. Ramp meters would be provided for the WB on-ramps. The existing two-lane bridge would be replaced with a new overcrossing that would provide six through lanes plus a dedicated left-turn lane with standard lane widths, and sidewalks as well as minimum 8-foot-wide shoulders that would accommodate bicycles in each direction. A minimum standard vertical clearance to SR-60 would be provided for the proposed bridge structure. In addition, SR-60 would be widened at this overcrossing location to provide standard 10-foot-wide shoulders.  IN MORENO VALLEY AT SR-60/MORENO BEACH DR IC: MODIFY MORENO BEACH DR IC - WIDEN OC FROM 2 TO 6 THROUGH LANES, REALIGN/WIDEN RAMPS (WB EXIT 1 TO 2 LANES), ADD NEW WB ENTRY RAMP (2 LANES), ADD WB AUX LANE, AND INSTALL RELATED DRAINAGE AND ASSOCIATED WORK (from 2013 FTIP #13-13, Riverside County)				
<b>Type of Project (use Table 1 on instruction sheet)</b> Reconfigure existing interchange				
<b>County</b> Riverside	<b>Narrative Location/Route &amp; Postmiles</b> City of Moreno Valley/State Route 60 (SR-60) from PM 18.8/19.6 <b>Caltrans Projects – EA# 32303</b>			
<b>Lead Agency:</b>				
<b>Contact Person</b> Marge Lazarus	<b>Phone#</b> 951-413-3133	<b>Fax#</b> 951-413-3170	<b>Email</b> margeryl@moval.org	
<b>Hot Spot Pollutant of Concern (check one or both)</b> <b>PM<sub>2.5</sub></b> <input checked="" type="checkbox"/> <b>PM<sub>10</sub></b> <input checked="" type="checkbox"/>				
<b>Federal Action for which Project-Level PM Conformity is Needed (check appropriate box)</b>				
<input checked="" type="checkbox"/> <b>Categorical Exclusion (NEPA)</b>	<input type="checkbox"/> <b>EA or Draft EIS</b>	<input type="checkbox"/> <b>FONSI or Final EIS</b>	<input type="checkbox"/> <b>PS&amp;E or Construction</b>	<input type="checkbox"/> <b>Other</b>
<b>Scheduled Date of Federal Action:</b> Not Applicable (NEPA Document is a Categorical Exclusion)				
<b>NEPA Assignment – Project Type (check appropriate box)</b>				
<input type="checkbox"/> <b>Exempt</b>	<input type="checkbox"/> <b>Section 326 –Categorical Exemption</b>	<input checked="" type="checkbox"/> <b>Section 327 – Non-Categorical Exemption</b>		
<b>Current Programming Dates (as appropriate)</b>				
	<b>PE/Environmental</b>	<b>ENG</b>	<b>ROW</b>	<b>CON</b>
<b>Start</b>	2004	2008	2009	2020
<b>End</b>	2007	2020	2019	2022

<p><b>Project Purpose and Need (Summary):</b> <i>(attach additional sheets as necessary)</i>                  The purpose of the project is to provide operational improvements to facilitate traffic movement at and near the SR-60/Moreno Beach Drive interchange, alleviate existing traffic congestion, increase storage capacity at the SR-60/Moreno Beach Drive intersection, and address existing roadway and bridge deficiencies. The project is needed to improve safety, to bring the roadway and bridge features up to current standards, provide acceptable levels of service, and accommodate projected future traffic volumes.</p>
<p><b>Surrounding Land Use/Traffic Generators</b> <i>(especially effect on diesel traffic)</i>                  Northwest and northeast quadrants– Open space/single-family residential                  Southwest and southeast quadrants – Commercial (including Walmart Super Center and Super Target)</p>
<p><b>Opening Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility</b>                  See Table 1 for Freeway Opening Year (2022) Build and No Build Total AADT, Truck AADT and Truck Percentage.                  See Tables 5 through 9 for Intersection and Freeway Opening Year (2022) LOS.</p>
<p><b>RTP Horizon Year/Design Year: Build and No Build LOS, AADT, % and # trucks, truck AADT of proposed facility</b>                  See Table 2 for Horizon Year (2045) Build and No Build Total AADT, Truck AADT and Truck Percentage.                  See Tables 5 through 9 for Intersection and Freeway Horizon Year (2045) LOS.</p>
<p><b>Opening Year: If facility is an interchange(s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT</b>                  See Table 3 for Intersection Opening Year (2022) Build and No Build Total AADT, Truck AADT and Truck Percentage.  <b>RTP Horizon Year/Design Year: If facility is an interchange (s) or intersection(s), Build and No Build cross-street AADT, % and # trucks, truck AADT</b>                  See Table 4 for Intersection Horizon Year (2045) Build and No Build Total AADT, Truck AADT and Truck Percentage.</p>
<p><b>Describe potential traffic redistribution effects of congestion relief</b> <i>(impact on other facilities)</i>                  The project would not generate new vehicle trips and would not increase overall vehicle volumes or truck trips. By reducing congestion, the project could encourage some motorists to slightly alter their normal commute route and might encourage some commercial and industrial users to slightly alter their normal routes for obtaining raw materials and delivering finished goods.</p>
<p><b>Comments/Explanation/Details</b> <i>(attach additional sheets as necessary)</i>                  The project is not a Project of Air Quality Concern (40 Code of Federal Regulations [CFR] 93.123(b)(1))                  (i) <i>New or expanded highway projects with significant number/increase in diesel vehicles?</i>  <ul style="list-style-type: none"> <li>✓ Not a new highway project</li> <li>✓ Interchange and mainline improvements to relieve congestion (reducing delay and air pollutant emissions)</li> <li>✓ No substantial change in traffic volumes or truck percentages</li> </ul>                 (ii) <i>Affects intersections at LOS D, E, or F with a significant number of diesel vehicles?</i>  <ul style="list-style-type: none"> <li>✓ The Moreno Beach Phase 2 Project would provide some congestion relief compared to the no-build condition as seen in Table 3. Operational improvements resulting from widening of the Moreno Beach overcrossing eliminates LOS F conditions at the intersection of Moreno Beach Drive and the eastbound (EB) SR-60 ramps that would arise in the year 2045 as a result of background growth. Even with the project in place, LOS F conditions would continue to arise at the intersection of Moreno Beach Drive and Ironwood Avenue, although conditions would be similar to no-build conditions because no capacity improvement or significant traffic pattern changes are introduced in this area under the project. This intersection does not have a significant number of diesel vehicles. As seen in Table 5, at the intersection of Moreno Beach Drive and the SR-60 EB ramps, which would have more diesel trucks, the LOS improves from E and F for the no-build horizon year to A and B for the build horizon year.</li> </ul>                 (iii) <i>New bus and rail terminals and transfer points?</i>—Not Applicable                  (iv) <i>Expanded bus and rail terminals and transfer points?</i>—Not Applicable                  (v) <i>Affects areas identified in PM<sub>10</sub> or PM<sub>2.5</sub> implementation plan as site of violation?</i>  <ul style="list-style-type: none"> <li>✓ Not identified in a PM<sub>10</sub> or PM<sub>2.5</sub> implementation plan as an area of potential violation.</li> </ul>                 See also Figures 1 and 2 and Tables 1 through 9 attached.</p>

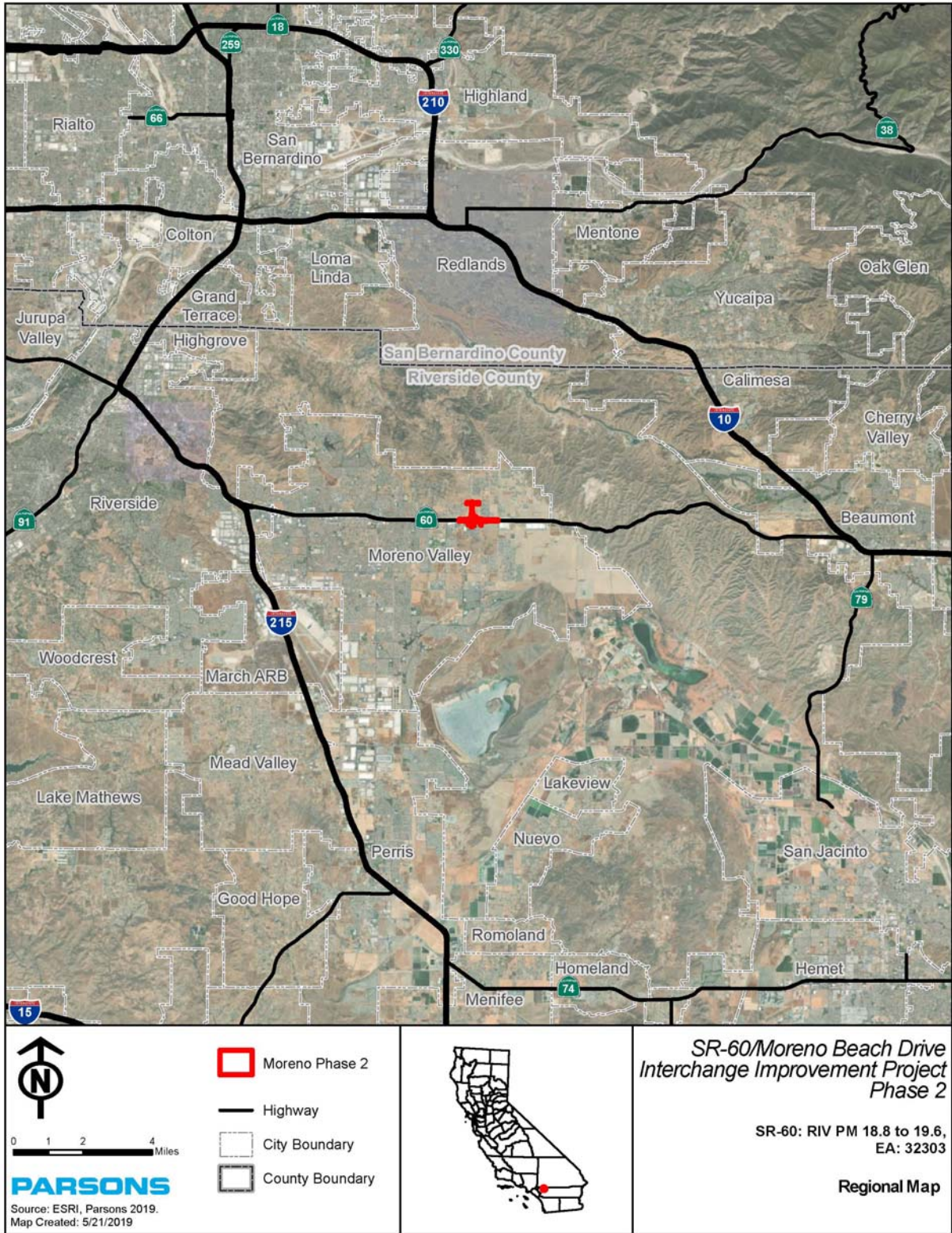


Figure 1 – Regional Map

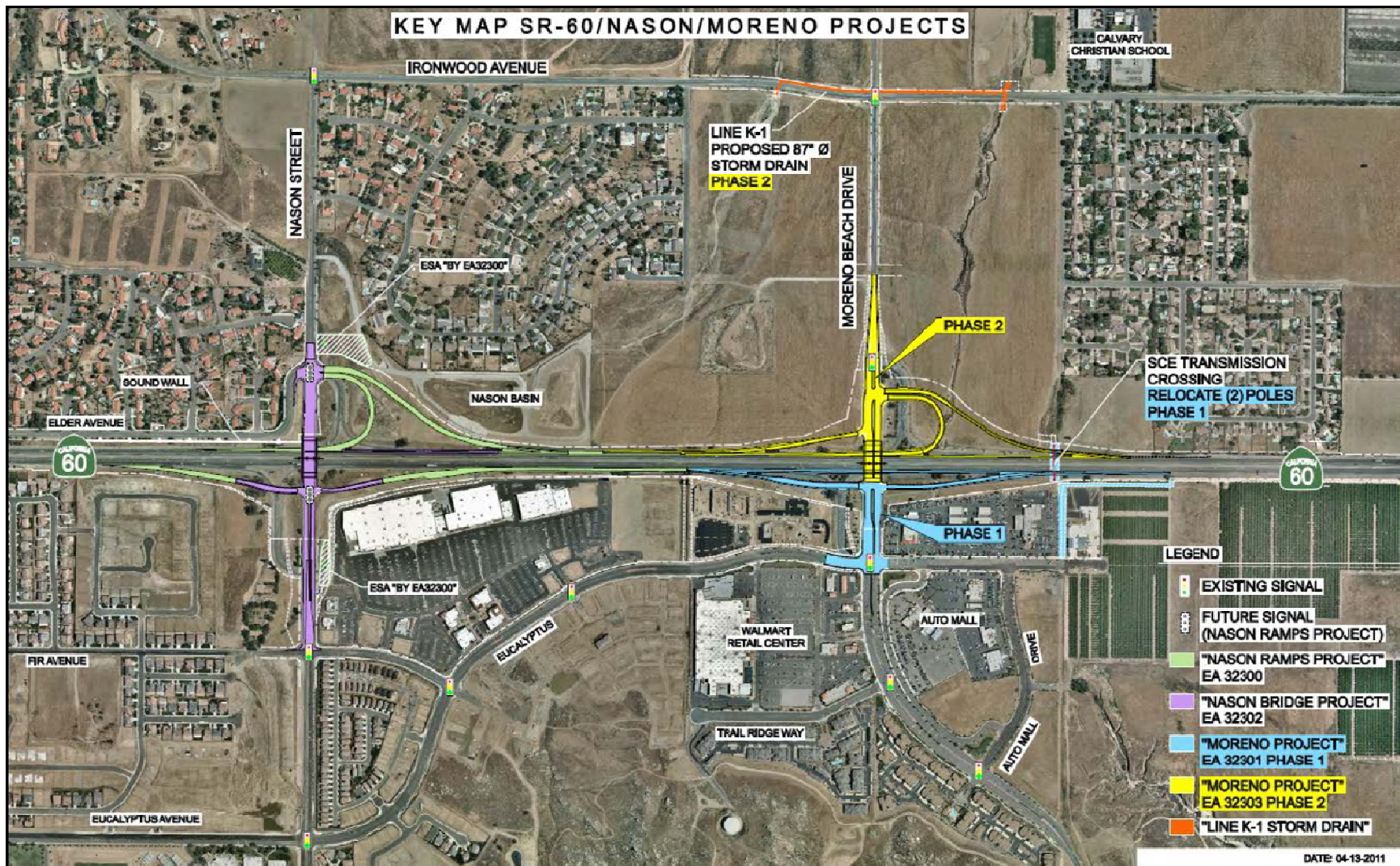


Figure 2 – Project Location

**Table 1: Freeway Opening Year (2022) Build and No Build  
Total AADT, Truck AADT, and Truck Percentage**

	Build			No Build		
	Total AADT	Truck AADT	Truck %	Total AADT	Truck AADT	Truck %
Eastbound Mainline	292,444	64,226	22	292,518	64,282	22
Eastbound Ramps	24,037	555	2	24,018	555	2
Westbound Mainline	290,827	68,673	24	238,509	57,227	24
Westbound Ramps	20,943	335	2	19,471	344	2

**Table 2: Freeway Horizon Year (2045) Build and No Build  
Total AADT, Truck AADT, and Truck Percentage**

	Build			No Build		
	Total AADT	Truck AADT	Truck %	Total AADT	Truck AADT	Truck %
Eastbound Mainline	361,399	89,535	25	361,518	89,645	25
Eastbound Ramps	35,599	1,381	4	35,527	1,372	4
Westbound Mainline	353,134	93,425	26	290,117	77,844	27
Westbound Ramps	32,001	746	2	29,590	736	2

**Table 3: Intersection Opening Year (2022) Build and No Build Total AADT, Truck AADT, and Truck Percentage**

	Build			No Build		
	Total AADT	Truck AADT	Truck %	Total AADT	Truck AADT	Truck %
Moreno Beach Dr & EB 60 Ramps	17,691	191	1	26,636	282	1
Moreno Beach Dr & Ironwood Ave	8,573	45	1	9,300	54	1
Moreno Beach Dr & SR 60 WB Ramps	13,072	100	1	16,963	136	1
Moreno Beach Dr/Auto Mall Pkwy & Auto Mall Dr	23,099	90	0	23,109	90	0
Moreno Beach Dr/Auto Mall Pkwy & Trail Ridge Way	23,198	153	1	23,188	171	1

**Table 4: Intersection Horizon Year (2045) Build and No Build Total AADT, Truck AADT, and Truck Percentage**

	Build			No Build		
	Total AADT	Truck AADT	Truck %	Total AADT	Truck AADT	Truck %
Moreno Beach Dr & EB 60 Ramps	25,663	381	1	36,689	545	1
Moreno Beach Dr & Ironwood Ave	10,899	127	1	26,082	363	1
Moreno Beach Dr & SR 60 WB Ramps	18,755	273	1	26,272	345	1
Moreno Beach Dr/Auto Mall Pkwy & Auto Mall Dr	27,098	90	0	27,135	99	0
Moreno Beach Dr/Auto Mall Pkwy & Trail Ridge Way	27,280	217	1	27,289	235	1

**Table 5: Intersection LOS Comparison**

Intersection	Approach	Movement	Build				No Build			
			2022		2045		2022		2045	
			AM	PM	AM	PM	AM	PM	AM	PM
1: Moreno Beach Drive & Ironwood Avenue	Westbound	Left	E (75.1)	F (151.2)	F (117.9)	F (135.0)	E (63.8)	E (56.9)	F (94.2)	F (90.8)
	Westbound	Through	F (83.4)	D (41.4)	F (244.7)	F (139.2)	E (77.2)	D (50.1)	F (234.9)	F (135.5)
	Eastbound	Left	F (87.3)	F (138.6)	F (199.9)	F (138.7)	F (83.7)	E (60.3)	F (204.0)	F (123.1)
	Eastbound	Through	D (48.3)	D (35.2)	F (106.4)	F (106.9)	D (46.5)	D (40.9)	F (81.6)	F (81.8)
	Northbound	Through	E (72.5)	D (54.7)	F (255.3)	F (128.6)	E (70.1)	D (53.2)	F (226.9)	F (127.4)
	Southbound	Through	E (69.6)	D (41.0)	F (191.4)	F (95.3)	E (63.8)	D (52.6)	F (161.9)	F (83.2)
	All	All	E (72.9)	E (65.9)	F (205.4)	F (125.0)	E (68.5)	D (51.7)	F (184.8)	F (112.2)
2: Moreno Beach Drive & SR-60 Westbound Ramps	Westbound	Left	D (36.6)	D (36.3)	D (37.9)	C (33.2)	D (44.3)	D (40.9)	D (44.6)	D (42.3)
	Westbound	Right					B (17.6)	B (11.7)	B (12.3)	A (6.8)
	Northbound	Through	A (4.7)	A (6.2)	A (6.4)	A (5.5)	A (7.5)	A (6.1)	B (13.2)	B (12.8)
	Northbound	Right	B (17.1)	A (1.1)	A (0.9)	A (2.4)	A (0.4)	A (0.3)	A (0.4)	A (0.1)
	Southbound	Left					D (43.9)	D (40.9)	D (44.4)	D (47.4)
	Southbound	Through	A (4.1)	A (3.8)	A (5.3)	A (6.7)	A (5.2)	A (5.4)	A (9.0)	A (8.9)
	All	All	B (12.7)	A (8.7)	B (10.0)	B (10.9)	B (11.7)	B (10.4)	B (15.8)	B (15.1)
3: Moreno Beach Drive & SR-60 Eastbound Ramps	Eastbound	Left	D (42.7)	D (40.4)	D (42.0)	D (36.3)				
	Eastbound	Through	B (14.0)	A (9.7)	A (9.3)	A (7.2)	D (42.0)	D (41.9)	D (43.7)	F (83.6)
	Eastbound	Right	B (11.5)	A (9.5)	A (8.7)	A (7.1)	B (12.1)	B (12.1)	B (11.2)	A (9.8)
	Northbound	Through	A (1.2)	A (3.5)	A (3.6)	B (10.9)	C (27.8)	D (53.6)	D (37.3)	F (133.2)
	Northbound	Right	A (0.7)	A (0.9)	A (1.8)	A (4.2)	A (9.7)	A (4.9)	A (6.5)	A (4.1)
	Southbound	Left	D (40.5)	D (43.1)	D (38.5)	D (37.2)				
	Southbound	Through	A (4.3)	A (4.4)	A (6.0)	B (10.2)	C (29.9)	C (25.0)	F (169.4)	F (126.7)
	All	All	A (8.4)	A (8.6)	B (10.4)	B (13.8)	C (23.4)	C (28.9)	E (74.9)	F (81.2)

**Table 5: Intersection LOS Comparison**

Intersection	Approach	Movement	Build				No Build			
			2022		2045		2022		2045	
			AM	PM	AM	PM	AM	PM	AM	PM
4: Moreno Beach Drive & Eucalyptus Avenue	Westbound	Through	D (41.3)	D (47.6)	D (49.8)	D (54.7)	D (43.3)	D (43.7)	D (49.8)	D (47.9)
	Westbound	Left	D (41.7)	D (43.7)	D (43.9)	D (50.1)	C (21.7)	B (18.5)	C (28.0)	C (25.3)
	Southbound	Right	A (1.1)	B (11.5)	A (1.0)	A (8.2)				
	Eastbound	Left	D (42.2)	D (43.3)	D (47.4)	D (52.7)	D (44.4)	D (42.9)	D (51.3)	E (55.2)
	Eastbound	Through	C (32.4)	C (32.8)	D (36.2)	C (33.3)	B (15.3)	B (13.9)	B (17.8)	C (20.5)
	Eastbound	Right	A (1.1)	A (4.2)	A (7.2)	A (5.9)				
	Northbound	Left	D (35.8)	D (35.0)	D (36.4)	D (50.1)	D (45.7)	D (35.4)	D (46.7)	D (46.9)
	Northbound	Through	B (14.1)	B (17.8)	B (19.0)	C (31.0)	B (17.7)	B (19.3)	C (24.4)	C (27.5)
	Northbound	Right	A (0.1)	A (0.1)	A (0.1)	A (0.8)	A (0.1)	A (0.1)	A (0.1)	A (0.8)
	Southbound	Left	D (43.2)	D (42.1)	D (46.7)	D (44.8)	D (50.5)	D (47.6)	D (42.9)	D (53.6)
	Southbound	Through	B (14.7)	C (20.3)	B (17.3)	D (37.2)	B (16.3)	B (18.2)	C (20.6)	C (23.6)
	Southbound	Right	A (1.4)	A (2.8)	A (3.2)	C (21.1)	A (2.4)	A (2.2)	A (3.5)	A (4.6)
	All	All	C (20.2)	C (22.9)	C (24.1)	C (33.6)	C (23.5)	C (22.1)	C (25.8)	C (28.6)
5: Moreno Beach Drive & Trail Ridge Way	Eastbound	Left	D (39.6)	D (39.2)	D (39.8)	D (36.0)	D (39.6)	D (39.2)	D (39.8)	D (35.9)
	Eastbound	Right	B (15.0)	B (13.8)	B (14.4)	C (22.2)	B (15.0)	B (13.8)	B (14.4)	C (22.4)
	Northbound	Left	A (2.2)	A (1.4)	A (2.6)	A (2.6)	A (2.2)	A (1.4)	A (2.7)	A (2.4)
	Northbound	Through	A (1.9)	A (0.2)	A (2.3)	A (0.4)	A (1.9)	A (0.2)	A (2.4)	A (0.3)
	Southbound	Through	A (1.3)	A (8.1)	A (1.8)	A (9.4)	A (3.7)	A (5.8)	A (2.8)	A (4.4)
	Southbound	Right	A (0.1)	A (4.1)	A (0.1)	A (5.1)	A (1.8)	A (2.1)	A (0.5)	A (1.7)
		All	All	A (4.3)	A (7.6)	A (4.8)	A (9.5)	A (5.2)	A (6.7)	A (5.1)



**Table 5: Intersection LOS Comparison**

Intersection	Approach	Movement	Build				No Build			
			2022		2045		2022		2045	
			AM	PM	AM	PM	AM	PM	AM	PM
6: Automall Drive & Moreno Beach Drive	Westbound	Left	D (40.8)	D (49.8)	D (41.2)	D (53.9)	D (41.2)	D (54.8)	D (41.5)	D (53.9)
	Westbound	Through	C (28.0)	C (26.0)	C (28.0)	A (0.0)	C (28.0)	A (0.0)	C (28.0)	A (0.0)
	Westbound	Right	A (0.0)	A (0.1)	A (0.0)	A (0.1)	A (0.0)	A (0.1)	A (0.0)	A (0.1)
	Eastbound	Left	D (54.5)	D (47.4)	D (52.7)	D (50.9)	D (53.4)	D (48.0)	D (52.0)	D (50.5)
	Eastbound	Through	A (0.1)	A (0.0)	A (0.1)	A (0.0)	B (12.1)	A (0.0)	A (0.1)	A (0.0)
	Northbound	Left	D (41.0)	D (44.9)	D (42.4)	D (46.0)	D (42.2)	D (48.1)	D (42.8)	D (44.4)
	Northbound	Through	B (16.2)	B (17.5)	B (17.8)	B (18.2)	B (16.3)	B (16.8)	C (20.4)	B (18.3)
	Northbound	Right	A (0.2)	A (0.1)	A (0.2)	A (0.1)	A (0.2)	A (0.1)	A (0.3)	A (0.1)
	Southbound	Left	C (34.2)	D (55.0)	D (43.5)	D (51.0)	C (32.8)	D (53.2)	D (36.7)	D (48.6)
	Southbound	Through	B (11.4)	A (9.6)	B (11.8)	B (12.6)	B (11.0)	B (10.6)	B (11.7)	B (16.3)
Southbound	Right	A (0.8)	A (0.2)	A (0.3)	A (0.3)	A (1.2)	A (0.2)	A (1.0)	A (0.3)	

Note: Intersection LOS defined in terms of average control delay (in seconds per vehicle)

**Table 6: No Build (2022 and 2045) Westbound SR-60 Freeway Segment Density and Level of Service**

Segment Name	Segment Type	Year 2022				Year 2045			
		AM		PM		AM		PM	
		Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS
<b>General Purpose Lanes</b>									
Before Redlands Boulevard On-Ramp	BFS	19	C	20	C	26.8	D	24.3	C
Redlands Boulevard On-Ramp	Merge	26	C	26.7	C	38.7	D	34.2	D
After Redlands Boulevard On-Ramp	BFS	22.6	C	23.7	C	35	D	31.3	D
Moreno Beach Drive Off-Ramp	Diverge	26.9	C	28	C	36.6	D	34.5	D
Between Moreno Beach Drive Off-Ramp and On-Ramp	BFS	21.7	C	22.3	C	31.6	D	27.6	D
Between Moreno Beach Drive On-Ramp and Nason Street Off-Ramp	Weaving	18.5	B	19.4	B	24.9	C	24	C
After Nason Street Off-Ramp	BFS	15.4	B	15.9	B	20	C	18	B
<b>Managed Lanes</b>									
After Redlands Boulevard On-Ramp	BFS	6.1	A	5.7	A	8	A	6.9	A
Moreno Beach Drive Off-Ramp	Diverge	5.9	A	5.4	A	7.5	A	6.2	A
Between Moreno Beach Drive Off-Ramp and On-Ramp	BFS	4.8	A	4.4	A	6.2	A	5.1	A
Between Moreno Beach Drive On-Ramp and Nason Street Off-Ramp	Weaving	5.9	A	5.4	A	7.5	A	6.2	A
After Nason Street Off-Ramp	BFS	5.9	A	5.4	A	7.5	A	6.4	A

Note: Freeway LOS is defined in terms of density in passenger car equivalents vehicles-per-mile per-lane (veh/mi/ln)

**Table 7: No Build (2022 and 2045) Eastbound SR-60 Freeway Segment Density and Level of Service**

Segment Name	Segment Type	Year 2022				Year 2045			
		AM		PM		AM		PM	
		Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS
<b>General Purpose Lanes</b>									
Before Nason Street On-Ramp	BFS	16.1	B	27.8	D	26.8	D	24.3	C
Nason Street On-Ramp	Merge	11.6	B	18.1	C	38.7	D	34.2	D
Moreno Beach Drive Off-Ramp	Diverge	13.2	B	20.2	C	35	D	31.3	D
Between Moreno Beach Drive Off-Ramp and On-Ramp	BFS	9.9	A	15.2	B	36.6	D	34.5	D
Moreno Beach Drive On-Ramp	Merge	17.9	B	28.6	C	31.6	D	27.6	D
After Moreno Beach Drive On-Ramp	BFS	15.8	B	25.3	C	24.9	C	24	C
Redlands Boulevard Off-Ramp	Diverge	19.5	B	28.1	C	20	C	18	B
<b>Managed Lanes</b>									
Before Nason Street On-Ramp	BFS	7	A	10.5	A	6.6	A	5.6	A
Nason Street On-Ramp	Merge	7	A	10.5	A	6.6	A	5.6	A
Moreno Beach Drive Off-Ramp	Diverge	6.4	A	9.2	A	8	A	6.9	A
Between Moreno Beach Drive Off-Ramp and On-Ramp	BFS	6.4	A	9.2	A	7.5	A	6.2	A
Moreno Beach Drive On-Ramp	Merge	6.4	A	9.2	A	6.2	A	5.1	A
After Moreno Beach Drive On-Ramp	BFS	6.9	A	9.7	A	7.5	A	6.2	A
Redlands Boulevard Off-Ramp	Diverge	6.9	A	9.7	A	7.5	A	6.4	A

Note: Freeway LOS is defined in terms of density in passenger car equivalents vehicles-per-mile per-lane (veh/mi/ln)

**Table 81: Build Conditions (2022 and 2045) Westbound SR-60 Freeway Segment Density and Level of Service**

Segment Name	Segment Type	Year 2022				Year 2045			
		AM		PM		AM		PM	
		Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS
<b>General Purpose Lanes</b>									
Before Redlands Boulevard On-Ramp	BFS	18.9	C	19.9	C	26.5	D	24	C
Redlands Boulevard On-Ramp	Merge	25.7	C	26.6	C	38.2	D	33.8	D
After Redlands Boulevard On-Ramp	BFS	23	C	24.3	C	36.5	E	32.4	D
Moreno Beach Drive Off-Ramp	Diverge	25	C	26.2	C	34.1	D	32.1	D
Between Moreno Beach Drive Off-Ramp and On-Ramp	BFS	22	C	22.9	C	33.2	D	28.2	D
On-Ramp from NB Moreno Beach Drive	Merge	15.7	B	16.4	B	20.8	C	19.7	C
On-Ramp from SB Moreno Beach Drive	Merge	18.5	B	19.1	B	24.5	C	23.4	C
Between On-Ramp from SB Moreno Beach Drive and Nason Street Off-Ramp	Overlap	15.9	B	16.6	B	21.3	C	20	C
Nason Street Off-Ramp	Diverge	17.2	C	17.8	C	23.1	C	21.5	C
After Nason Street Off-Ramp	BFS	15.4	B	15.9	B	20.1	C	18.5	C
<b>Managed Lanes</b>									
After Redlands Boulevard On-Ramp	BFS	5.7	A	5.8	A	7.4	A	7.1	A
Moreno Beach Drive Off-Ramp	Diverge	5.4	A	5.5	A	6.9	A	6.3	A
Between Moreno Beach Drive Off-Ramp and On-Ramp	BFS	5.4	A	5.5	A	6.9	A	6.3	A
On-Ramp from NB Moreno Beach Drive	Merge	5.4	A	5.5	A	6.9	A	6.3	A
On-Ramp from SB Moreno Beach Drive	Merge	5.4	A	5.5	A	6.9	A	6.3	A
Between On-Ramp from SB Moreno Beach Drive and Nason Street Off-Ramp	Overlap	6.4	A	6.5	A	8	A	7.7	A
Nason Street Off-Ramp	Diverge	6.1	A	6.3	A	7.5	A	7.1	A
After Nason Street Off-Ramp	BFS	6.1	A	6.3	A	7.5	A	7.1	A

Note: Freeway LOS is defined in terms of density in passenger car equivalents vehicles-per-mile per-lane (veh/mi/ln)

**Table 9: Build Conditions (2022 and 2045) Eastbound SR-60 Freeway Segment Density and Level of Service**

Segment Name	Segment Type	Year 2022				Year 2045			
		AM		PM		AM		PM	
		Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS	Density (veh/mi/ln)	LOS
<b>General Purpose Lanes</b>									
Before Nason Street On-Ramp	BFS	16.1	B	27.9	D	21.4	C	40.6	E
Nason Street On-Ramp	Merge	11.6	B	18.1	C	14.8	B	24.3	C
Moreno Beach Drive Off-Ramp	Diverge	13.2	B	20.2	C	16.9	B	26	C
Between Moreno Beach Drive Off-Ramp and On-Ramp	BFS	9.9	A	15.1	B	12.9	B	19	C
Moreno Beach Drive On-Ramp	Merge	17.8	B	28.5	C	23.7	C	40.3	D
After Moreno Beach Drive On-Ramp	BFS	15.8	B	25.3	C	21.1	C	37	E
Redlands Boulevard Off-Ramp	Diverge	18.3	B	28	C	24.4	C	36.3	D
<b>Managed Lanes</b>									
Before Nason Street On-Ramp	BFS	6.8	A	10.6	A	8.5	A	13.3	B
Nason Street On-Ramp	Merge	6.8	A	10.6	A	8.5	A	13	B
Moreno Beach Drive Off-Ramp	Diverge	6.4	A	9.6	A	8.1	A	11.8	B
Between Moreno Beach Drive Off-Ramp and On-Ramp	BFS	6.4	A	9.6	A	8.1	A	11.8	B
Moreno Beach Drive On-Ramp	Merge	6.2	A	9.2	A	7.7	A	11.5	B
After Moreno Beach Drive On-Ramp	BFS	6.6	A	9.8	A	8.5	A	12.4	B
Redlands Boulevard Off-Ramp	Diverge	6.6	A	9.8	A	8.5	A	12.4	B

Note: Freeway LOS is defined in terms of density in passenger car equivalents vehicles-per-mile per-lane (veh/mi/ln)