



**Los Angeles County Metropolitan Transportation Authority**

# **Mobility Matrices Results**

**March 5, 2015**



**REVISION 1**



## Mobility Matrices Results

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## EXECUTIVE SUMMARY

### Mobility Matrix Overview

In February 2014, the Los Angeles County Metropolitan Transportation Authority (Metro) Board approved the holistic, countywide approach for preparing Mobility Matrices for Central Los Angeles, the Las Virgenes/Malibu Council of Governments (LVMCOG), North County Transportation Coalition (NCTC), San Fernando Valley Council of Governments (SFVCOG), San Gabriel Valley Council of Governments (SGVCOG), South Bay Cities Council of Governments (SBCCOG) and Westside Cities Council of Governments (WCCOG) (see Figure ES-1). The Gateway Cities COG is developing its own Strategic Transportation Plan which will serve as its Mobility Matrix.

For the purposes of the Mobility Matrix, cities with membership in two subregions selected one subregion in which to participate. The Arroyo Verdugo subregion decided to include the cities of La Cañada Flintridge, Pasadena, and South Pasadena in the SGVCOG, and Burbank and Glendale in the SFVCOG. The City of Santa Clarita opted to be included in the SFVCOG instead of the NCTC. Boundaries between the WCCOG and Central Los Angeles, and the WCCOG and SBCCOG, were modified based on Metro Board direction in January 2015.

In January 2015, the Metro Board created the Regional Facilities category. Regional Facilities include projects

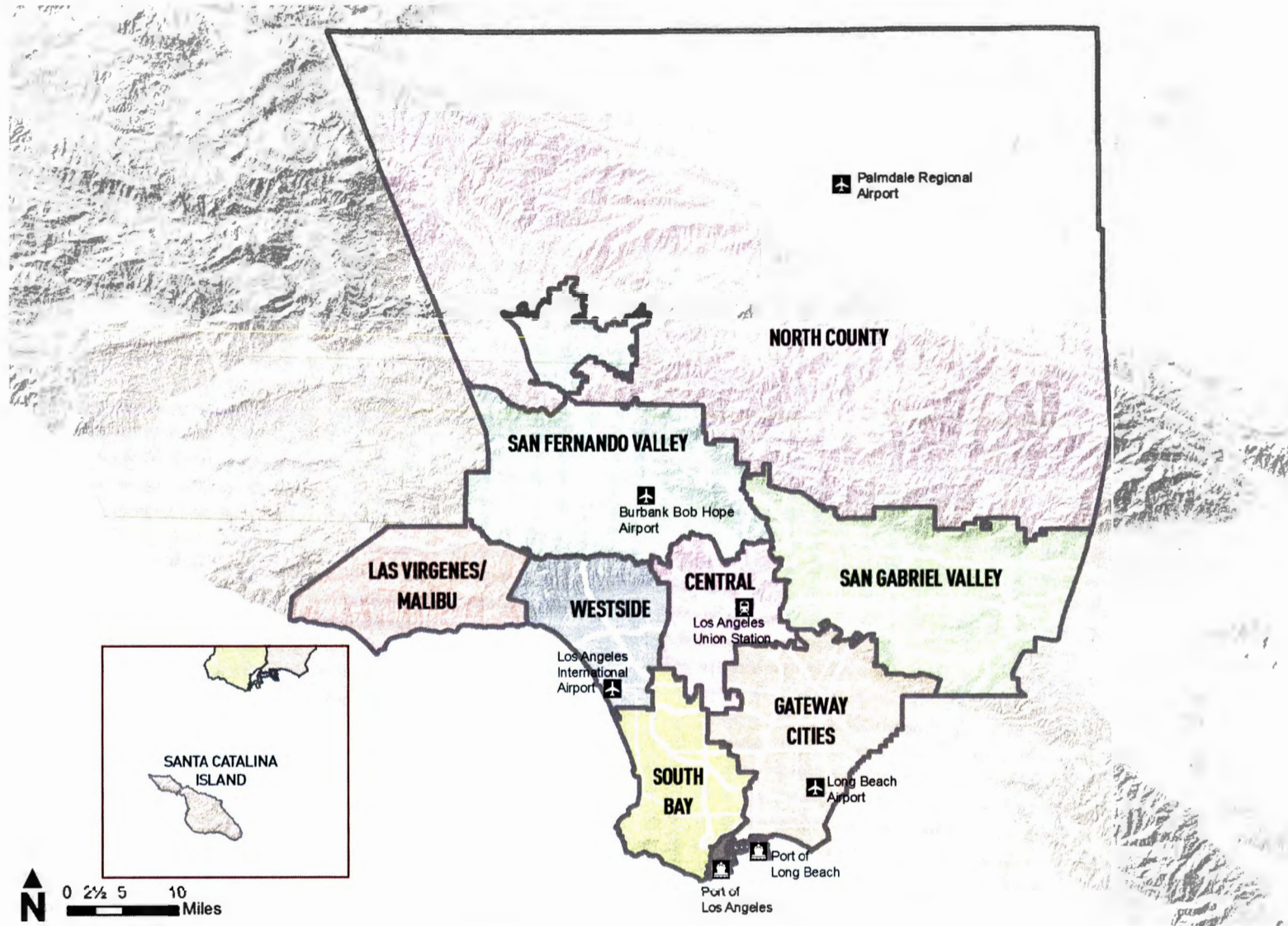
and programs related to Los Angeles County's four commercial airports (Los Angeles International Airport, Burbank Bob Hope Airport, Long Beach Airport, and Palmdale Regional Airport), the two seaports (Port of Los Angeles and Port of Long Beach), and Union Station. The projects/programs related to Regional Facilities have been removed from the subregional Mobility Matrices.

### Project Purpose

The Mobility Matrix will serve as a starting point for the update of the Metro Long-Range Transportation Plan (LRTP) currently scheduled for adoption in 2017. This San Gabriel Valley Mobility Matrix, along with concurrent efforts in other Metro subregions, includes the development of subregional goals and objectives to guide future transportation investments, an assessment of baseline transportation system conditions to identify critical needs and deficiencies, and an initial screening of projects and programs based on their potential to address subregional objectives and countywide performance themes.

The Mobility Matrix includes a preliminary assessment of anticipated investment needs and project and program implementation over the short-term (2015 to 2024), mid-term (2025 to 2034) and long-term (2035 to 2045) timeframes. The Mobility Matrix does not prioritize projects, but rather serves as a basis for further quantitative analysis to be performed during the Metro LRTP update, expected in 2017.

Figure ES-1. Los Angeles County Mobility Matrix Subregions



**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**



Los Angeles County Metropolitan Transportation Authority  
 Mobility Matrices Cost Summary  
 Capital Cost Estimates by Subregion  
 (2015\$ in thousands)

Subregion	Short Term (0 to 10 years)		Mid Term (11 to 20 years)		Long Term (20 plus years)		Total	
	Low	High	Low	High	Low	High	Low	High
Central Los Angeles	6,200,000	8,200,000	11,700,000	27,500,000	14,200,000	17,400,000	32,100,000	53,100,000
Gateway Cities	Not Available						29,700,000	45,300,000
Las Virgenes/Malibu	230,000	370,000	190,000	290,000	1,100,000	1,700,000	1,520,000	2,360,000
North County	4,303,400	6,456,500	7,176,700	10,766,000	6,631,000	9,948,900	18,111,100	27,171,400
San Fernando Valley	1,600,000	2,400,000	8,400,000	14,000,000	10,000,000	17,000,000	20,000,000	33,400,000
San Gabriel Valley	3,840,000	5,760,000	4,980,000	15,240,000	4,420,000	8,990,000	13,240,000	29,990,000
South Bay	3,900,000	5,600,000	2,700,000	4,100,000	5,400,000	6,800,000	12,000,000	16,500,000
Westside Cities	2,400,000	3,400,000	3,100,000	17,100,000	10,500,000	53,000,000	16,000,000	73,500,000
Regional Facilities	Not Available							
Total	22,473,400	32,186,500	38,246,700	88,996,000	52,251,000	114,838,900	142,671,100	281,321,400





2a. Central Los Angeles



## **2a. Central Los Angeles**

- 1. Detailed Cost Estimate Ranges**
- 2. Summary of Cost Estimates and Categorizations**
- 3. Performance Evaluations**
- 4. Project Descriptions**



# **Central Los Angeles**

## **1. Detailed Cost Estimate Ranges**

**Table 5-2. Central Los Angeles Mobility Matrix Rough Order of Magnitude Cost Estimate Ranges and Categorizations (2015 Dollars)**

Central Los Angeles Mobility Matrix Projects & Programs	Total Projects	Projects with Costs	Short Term (0 to 10 Years)		Mid Term (11 to 20 Years)		Long Term (20 plus Years)	
			Low	High	Low	High	Low	High
Bicycle Program	10	7	\$ 7,715,400	\$ 12,332,100	\$ 7,715,400	\$ 12,332,100	\$ 7,715,400	\$ 12,332,100
City of LA Bike Plan Program	4	4	\$ 323,083,200	\$ 484,624,800	\$ 323,083,200	\$ 484,624,800	\$ 323,083,200	\$ 484,624,800
Bike Enhanced Network Program	1	1	\$ 368,280,000	\$ 552,420,000	\$ 368,280,000	\$ 552,420,000	\$ 368,280,000	\$ 552,420,000
Off-street Ped & Bike Connection Program	5	4	\$ 533,016,000	\$ 708,856,500	\$ 533,016,000	\$ 708,856,500	\$ 533,016,000	\$ 708,856,500
Great Streets Program	1	1	\$ 5,725,000	\$ 8,585,000	\$ 5,725,000	\$ 8,585,000	N/A	N/A
Mobility Hubs Program	2	1	\$ 17,340,000	\$ 26,010,000	\$ 17,340,000	\$ 26,010,000	N/A	N/A
First-Last Mile Program	7	3	\$ 35,250,000	\$ 53,500,000	\$ 35,250,000	\$ 53,500,000	N/A	N/A
Pedestrian Program	25	22	\$ 28,492,200	\$ 41,989,200	\$ 28,492,200	\$ 41,989,200	\$ 28,492,200	\$ 41,989,200
Safe Routes to School Program	1	1	\$ 492,890,000	\$ 739,330,000	N/A	N/A	N/A	N/A
Streetscape Program	4	3	\$ 8,820,000	\$ 13,030,000	\$ 8,820,000	\$ 13,030,000	N/A	N/A
Safety and Vision Zero Program	2	2	\$ 57,522,300	\$ 86,285,100	\$ 57,522,300	\$ 86,285,100	\$ 57,522,300	\$ 86,285,100
Intersection Capacity Enhancement Program	14	11	N/A	N/A	\$ 67,060,000	\$ 94,440,000	N/A	N/A
Complete Streets Program	5	4	\$ 8,450,000	\$ 11,335,000	\$ 8,450,000	\$ 11,335,000	N/A	N/A
ITS Program	15	12	\$ 78,610,000	\$ 117,910,000	N/A	N/A	N/A	N/A
Vehicle Enhanced Network Program	1	1	N/A	N/A	\$ 5,850,000	\$ 11,700,000	N/A	N/A
Goods Movement Program	11	10	\$ 34,468,500	\$ 51,701,100	\$ 34,468,500	\$ 51,701,100	\$ 34,468,500	\$ 51,701,100
Technology Program	5	3	\$ 12,120,000	\$ 21,925,000	\$ 12,120,000	\$ 21,925,000	N/A	N/A
Park & Ride	3	2	\$ 10,050,000	\$ 15,070,000	N/A	N/A	N/A	N/A
TMA's/Carpool/Vanpool Program	6	3	\$ 73,250,000	\$ 109,870,000	N/A	N/A	N/A	N/A
Parking Districts/Park Once/Neighborhood Traffic Mgmt Program	4	1	\$ 13,000,000	\$ 19,500,000	N/A	N/A	N/A	N/A
Crenshaw Bl Corridor Extension	1	1	N/A	N/A	N/A	N/A	\$1,140,610,000	\$1,242,100,000
Burbank/Glendale LRT	1	1	N/A	N/A	\$1,230,045,000	\$ 1,339,495,000	\$1,230,045,000	\$1,339,495,000

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**



Central Los Angeles Mobility Matrix Projects & Programs	Total Projects	Projects with Estimated Costs	Short Term (0 to 10 Years)		Mid Term (11 to 20 Years)		Long Term (20 plus Years)	
			Low	High	Low	High	Low	High
“Silver” Line LRT	1	1	N/A	N/A	\$2,837,285,000	\$ 3,089,755,000	\$2,837,285,000	\$3,089,755,000
Vermont Short Corridor Subway	1	1	N/A	N/A	N/A	N/A	\$1,701,000,000	\$1,929,000,000
Transit Enhanced Network Program	1	1	N/A	N/A	\$ 60,960,000	\$12,802,160,000	N/A	N/A
Bus/Shuttle Program	7	2	\$ 4,855,000	\$ 7,280,000	\$ 4,855,000	\$ 7,280,000	N/A	N/A
Metrolink Program	17	15	\$581,691,183	\$872,536,774	\$78,474,760	\$117,712,140	\$143,355,720	\$215,033,580
Rail Program	10	9	\$5,276,703,300	\$6,892,686,900	\$5,276,703,300	\$6,892,686,900	\$5,276,703,300	\$6,892,686,900
State of Good Repair Program	3	0	Costs Under Development					
LRT and Bus Station/Stop Improvement Program	9	7	\$ 69,390,000	\$ 102,870,000	N/A	N/A	N/A	N/A
US-101 Carpool Lanes: SR-27 to SR-2	1	1			\$ 666,665,000	\$ 1,000,000,000	\$ 666,665,000	\$1,000,000,000
SR-60 Carpool Lanes: US-101 to I-605	1	1			\$ 184,400,000	\$ 276,600,000	\$ 184,400,000	\$ 276,600,000
Improve I-5/SR-2 Interchange	1	0	Costs Under Development					
Interchange Program	4	0	Costs Under Development					
ITS Program	4	1	\$ 1,000,000	\$ 1,500,000	\$ 1,000,000	\$ 1,500,000	N/A	N/A
Main Line Program	9	3	N/A	N/A	\$ 120,360,000	\$ 180,540,000	N/A	N/A
Ramp Program	5	2	N/A	N/A	\$ 7,200,000	\$ 10,800,000	N/A	N/A
Union Station Linkages Program	1	1	N/A	N/A	\$ 39,980,000	\$ 59,970,000	N/A	N/A

Notes: Estimated costs in 2015 dollars.

NA – Not applicable

These estimates under-represent the operations and maintenance costs due to limitations of available data. Costs are also underestimated due to projects and programs where cost estimate ranges are under development. Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. Any subregional cost-sharing agreements will be determined through future planning efforts.

## SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES



# **Central Los Angeles**

## **2. Summary of Cost Estimates and Categorizations**

**Table ES-4. Central Los Angeles Mobility Matrix Summary of Rough Order of Magnitude Cost Estimates and Categorizations**

Type / Category	Active Transportation	Arterial	Goods Movement	TDM	Transit	Caltrans	Total
Short-Term (0-10 yrs)	46 out of 62 Projects \$1.4B - \$2.0B	16 out of 21 Projects \$87M - \$129M	10 out of 11 Projects \$34M - \$52M	9 out of 18 Projects \$108M - \$166M	35 out of 46 Projects \$5.9B - \$8B	1 out of 3 Projects \$1M - \$1.5M	114 out of 161 Projects \$6.2B - \$8.2B
Mid-Term (11-20 yrs)	45 out of 61 Projects \$1.3B - \$1.8B	16 out of 20 Projects \$81M - \$117M	10 out of 11 Projects \$34M - \$52M	3 out of 5 Projects \$12M - \$22M	29 out of 40 Projects \$9.5B - \$24.2B	9 out of 20 Projects \$2.0B - \$3.0B	106 out of 151 Projects \$11.7B - \$27.5B
Long-Term (>20 yrs)	38 out of 46 Projects \$1.2B - \$1.6B	0 Projects \$0	10 out of 11 Projects \$34M - \$52M	0 Projects \$0	13 out of 14 Projects \$12.3B - \$14.7B	3 out of 3 Projects \$12.2B - \$14.2B	69 out of 82 Projects \$14.2B - \$17.4B
<b>Total</b>	47 out of 63 Projects \$3.8B - \$5.5B	28 out of 36 Projects \$168.4M - \$246.7M	10 out of 11 Projects \$104.5M - \$156.7M	9 out of 18 Projects \$120.5M - \$188.3M	40 out of 51 Projects \$27.7B - \$46.7B	9 out of 25 Projects \$3.9B - \$5.8B	140 out of 204 Projects \$32.2B - \$53.3B

Notes: Estimated costs in 2015 dollars.  
 Some highway and transit projects are counted in multiple timeframes, thus total project counts for those types will not match totals row.  
 Estimates underrepresent operations and maintenance costs due to limited project data availability. Costs also may be underestimated where cost estimate ranges are still under development.  
 Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. Any subregional cost-sharing agreements will be determined through future planning efforts.

# **Central Los Angeles**

## **3. Performance Evaluations**

**Table 4-2. Performance Evaluation – Summary by Subprogram**

ID	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>Improve travel times</li> <li>Improve system connectivity</li> <li>Increase person throughput</li> <li>Increase travel by transit and active modes</li> <li>Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>Reduce incidents</li> <li>Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>Reduce greenhouse gases</li> <li>Reduce vehicle miles traveled</li> <li>Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>Increase economic output</li> <li>Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>Increase population served by facility</li> <li>Increase service to transit-dependent populations</li> <li>Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>Extend life of facility or equipment</li> </ul>
<b>Active Transportation</b>							
Bicycle Program	10	◐	◐	◐	◑	●	○
Implement the projects and programs identified in the Bicycle Plan for the City of Los Angeles	4	●	◐	●	◑	●	○
Implement Bicycle Enhanced Network and associated bicycle programs as defined in the Mobility Plan 2035.	1	●	●	●	◑	●	○
Off-street Ped & Bike Connections (including parks and open space)	5	◑	●	●	○	◐	○
Implement Mayor's "Great Streets Program"	1	◐	●	●	◐	●	◐
Mobility Hubs Program	2	●	●	●	◐	●	○
First-Last Mile Program, including Metro First/Last Mile Strategic Plan	7	●	●	●	◐	●	○
Pedestrian Program, including Pedestrian Enhanced Districts as defined in Mobility Plan 2035.	25	◐	●	◐	◐	●	○
Safe Routes to School Program	1	◐	●	◐	◑	●	○

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

ID	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>Improve travel times</li> <li>Improve system connectivity</li> <li>Increase person throughput</li> <li>Increase travel by transit and active modes</li> <li>Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>Reduce incidents</li> <li>Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>Reduce greenhouse gases</li> <li>Reduce vehicle miles traveled</li> <li>Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>Increase economic output</li> <li>Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>Increase population served by facility</li> <li>Increase service to transit-dependent populations</li> <li>Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>Extend life of facility or equipment</li> </ul>
Streetscape Program (landscaping, lighting, benches, etc.)	4						
Safety and "Vision Zero" Program	2						
<b>Arterials</b>							
Localized Intersection Capacity Enhancements	14						
Complete Streets Program, including Complete Streets Enhancements along key arterials as defined in Mobility Plan 2035	5						
ITS Program	15						
Implement City of LA Vehicle Enhanced Network as defined in the Mobility Plan 2035.	1						
<b>Goods Movement</b>							
Goods Movement Program	11						
<b>TDM</b>							
Technology Program	5						

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

ID	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>Improve travel times</li> <li>Improve system connectivity</li> <li>Increase person throughput</li> <li>Increase travel by transit and active modes</li> <li>Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>Reduce incidents</li> <li>Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>Reduce greenhouse gases</li> <li>Reduce vehicle miles traveled</li> <li>Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>Increase economic output</li> <li>Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>Increase population served by facility</li> <li>Increase service to transit-dependent populations</li> <li>Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>Extend life of facility or equipment</li> </ul>
Park & Ride	3	◐	○	◐	◐	◐	○
TMAs/Carpool/Vanpool Program	6	◐	○	●	◐	◐	○
Parking Districts/Park Once/Neighborhood Traffic Management Program	4	◐	◐	◐	◐	◐	○
<b>Transit</b>							
Crenshaw BI Corridor Extension (beyond segment funded by Measure R) all the way to Hollywood	1	●	◐	●	◐	●	○
Burbank/Glendale LRT from LA Union Station to Burbank Metrolink Station	1	◐	○	◐	○	◐	○
“Silver” Line LRT between Metro Red Line Vermont/Santa Monica Station and City of La Puente	1	●	◐	●	◐	●	○
Vermont Corridor Subway: Vermont "Short Corridor" from Wilshire/Vermont to Exposition/Vermont	1	●	◐	●	◐	●	○
Implement Transit Enhanced Network as defined in the Mobility Plan 2035.	1	●	◐	●	◐	●	○
Bus/Shuttle Program	7	●	○	●	◐	●	○

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**



ID	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>Improve travel times</li> <li>Improve system connectivity</li> <li>Increase person throughput</li> <li>Increase travel by transit and active modes</li> <li>Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>Reduce incidents</li> <li>Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>Reduce greenhouse gases</li> <li>Reduce vehicle miles traveled</li> <li>Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>Increase economic output</li> <li>Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>Increase population served by facility</li> <li>Increase service to transit-dependent populations</li> <li>Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>Extend life of facility or equipment</li> </ul>
Metrolink Program	17	●	◐	●	◐	◐	◐
Rail Program (including L RTP Strategic Recommended and Unfunded projects, and other rail projects)	10	●	◐	●	●	●	○
State of Good Repair Program	3	●	●	●	◐	●	●
LRT and Bus Station/Stop Improvement Program (Safety improvements, lighting, benches, etc.)	9	◐	●	◐	◐	●	○
<b>Freeway</b>							
US-101 Corridor: Add carpool lane in each direction between SR-27 (Topanga Canyon Bl and SR-2 in Downtown Los Angeles.	1	●	◐	◐	◐	○	○
SR-60 Carpool Lanes: US-101 to I-605	1	●	◐	◐	◐	○	○
Improve I-5/SR-2 Interchange (Rebuild or use existing ROW)	1	●	◐	◐	◐	○	◐
I-10 Carpool Lanes (Lincoln Bl - I-5)	1	●	◐	◐	◐	○	○
Interchange Program (including L RTP Strategic Unfunded projects and others)	4	●	◐	○	◐	◐	○

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

ID	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>• Improve travel times</li> <li>• Improve system connectivity</li> <li>• Increase person throughput</li> <li>• Increase travel by transit and active modes</li> <li>• Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce incidents</li> <li>• Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce greenhouse gases</li> <li>• Reduce vehicle miles traveled</li> <li>• Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>• Increase economic output</li> <li>• Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>• Increase population served by facility</li> <li>• Increase service to transit-dependent populations</li> <li>• Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>• Extend life of facility or equipment</li> </ul>
ITS Program (HOT Lanes and others)	4	●	●	◐	◑	◑	○
Main Line Program (LRTP Strategic Unfunded and others)	9	●	○	◐	◑	◑	○
Ramp Program	5	●	○	○	◑	◑	○
<b>Regional Facilities</b>							
Union Station Linkages Program	1	●	●	●	◐	●	○

## SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES

# **Central Los Angeles**

## **4. Project Descriptions**

The following matrix documents the Preliminary Project List as developed for the Central Los Angeles subregion during the Mobility Matrix process.

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Active Transportation	Bicycle Program	85	LA County	Arroyo Seco Bike Trail- Bike Trail Class 1 Facility/Connector from Av 26 to San Fernando Rd
		381	LA City	Expo Line Non-Revenue Connector Enhancements: Install bike lanes and other bike/ped amenities to enhance the quality of the corridor for pedestrians, cyclists and transit users.
		548	LA City	Angeles Vista Rd - Slauson Av to Vernon Av: Bike and ped improvement projects paralleling an existing roadway facility.
		790	LA City	Priority Bikeways: Mark bikeways in the West Adams-Baldwin Hills-Leimert Community Plan with appropriate signage
		795	LA City	Reclaimed Land for Bikeways: Coordinate with other agencies to designate and develop mountain bike trails in the Kenneth Hahn State Recreation Area that complement and connect to the Baldwin Hills Park Master Plan trail system
		1909	LA City	Expand bicycle networks and link them to those of neighboring areas
		1931	LA City	Downtown Bicycle Service Center: The project would include the development, implementation and management of a Bicycle Service Center in Downtown Los Angeles at or near 1st & Main.
		3112	LA City	Pedestrian/Bicycle facilities, landscape, and artwork enhancements adjacent to I-5 & I-10 & LA River
		3595	LA County	Establish a County-wide bike share program that interacts with the Metro transit system.
		3629	LA County	Local Bikeways
	2010 Bicycle Plan for the City of Los Angeles	2042	LA City	Implement the projects identified in the City of LA Bicycle Plan
		3551	LA City	Implement the programs identified in the Mobility Plan 2035
		3552	LA City	Implement the programs identified in the City of LA Bicycle Plan

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description	
Active Transportation	2010 Bicycle Plan for the City of Los Angeles	3612	LA City	Completion of the LA River Bike Path project to connect Downtown Los Angeles to the San Fernando Valley	
	City of LA Bicycle Enhanced Network	3162	LA City	Implement Bicycle Enhanced Network as defined in the Mobility Plan 2035	
	Off-street Ped & Bike Connections Program		36	LA City	Park 101 - Freeway Cap Park - Los Angeles St Bridge over US-101: Replace with longer bridge for increased lateral underclearance; cover NB on-ramp with a portal frame for increased open space for proposed park
			87	LA City	Hollywood Central Park: US-101- Decking over 101 Fwy between Bronson Av and Vermont Av for pedestrian linkage and open space
			412	LA City	Los Angeles St Park (Los Angeles St between 7th and 8th Sts): Implement pedestrian and bike enhancement such as hardscaping, signage, trees, trellis structures, park furniture, secure bike parking, bike share kiosks, lighting, etc. to promote multi-modal access to transit system
			1903	LA City	Rails-to-trails conversions incorporating bike/ped paths and greenways in place of abandoned, or, alongside active rail lines as well as other underutilized easements and rights-of-way
			1929	LA City	Taylor Yard State Park is now known as Rio de Los Angeles State Park. This project would connect the two communities on opposite sides of the LA River with a bike connection via a bridge over the river. The park is at N. San Fernando Rd & Macon St (east of the LA River) to the LA River Greenway Trail (west of the LA River).
	Great Streets Program	762	LA City	Implement Mayor's "Great Streets Program": Revitalize up to 40 neighborhood streets to become more pedestrian-friendly	
	Mobility Hubs Program	3529	LA City	Implement Mobility Hubs: Install a full-service mobility hub at or adjacent to Metro Stations & satellite hubs strategically located surrounding each station, including secure bike parking, car share, bike share, and ride share (including casual carpooling) to bridge the first/last mile gap of a transit user's commute.	
	First-Last Mile Program	698	LA City	Develop a System-wide Urban Greening Plan to improve placemaking, increase environmental stewardship, and create livable streets around transit stations with funds awarded by the State Strategic Growth Council.	

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Active Transportation	First-Last Mile Program	767	LA City	Access Management: Creation of adequate drop-off areas for schools, day care, health care, and other uses with intensive passenger drop-off demand
		3530	LA City	Implement pedestrian and bicycle connectivity improvements at every existing and planned Metro rail and subway station by providing enhanced sidewalk amenities such as landscaping, shading, lighting, directional signage, shelters, curb-extensions, mid-block crosswalks, ADA ramps, lead-pedestrian interval signal phases, etc.
		3553	LA City	Implement the Metro First/Last Mile Strategic Plan
		3621	LA City	Implement the City of Los Angeles First & Last Mile Transit Plan
		3630	LA City	Enhanced Pedestrian Access to Metro Stations
	Pedestrian Program	342	LA City	Cesar Chavez Streetscape Improvements: Improve ped connectivity to transit stops along Cesar Chavez including enhanced X-walks, medians, lighting, bus stop amenities, curb cuts, information kiosks, street trees, etc.
		346	LA City	Crenshaw Exposition Light Rail Station TOD Accessibility: Installation of pedestrian/transit connectivity improvements from Coliseum St to 30th St
		391	LA City	Fashion District East Gateway Plaza (8th St and San Pedro St): Enhance the skewed alignment of this intersection and implement pedestrian enhancements such as plaza/pocket park at triangular median of intersection and sidewalk improvements that facilitate access to transit
		392	LA City	Fashion District Freeway Underpass Enhancements (16th St between San Pedro and Central Av): Improve pedestrian access from Blue Line stations on Washington Bl (San Pedro and Grand) to Fashion District by implementing lighting, public art, and signage on five freeway undercrossing (Main, Los Angeles, Maple, San Pedro, and Griffith)

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Active Transportation	Pedestrian Program	393	LA City	Fashion District Streetscape Phase III: Pedestrian environment improvements and enhancements to improve ped access to transit systems within the Fashion District Area; Phase III streetscape improvements will extend and increase pedestrian usage into, out of, and through downtown Los Angeles and the Fashion District. Typical improvements include new sidewalks, curb ramps, enhanced crosswalks, street furniture, pedestrian lighting, tree maintenance, and decorative tree wells/covers. Pedestrian environment improvements and enhancements at Pico Bl, San Pedro St and Maple Av and at San Pedro St, Pico Bl and Washington Bl.
		394	LA City	Fashion District West Gateway Plaza: Enhance the skewed alignment of this intersection (Pico Bl and Main St) and implement pedestrian enhancements such as plaza/pocket park at triangular median of intersection and sidewalk improvements that facilitate access to transit
		395	LA City	Fletcher Dr Transit & Ped Improvement Project (Fletcher Drive between La Clede Av and San Fernando Road): Enhance pedestrian access to transit by installing bus stops, access ramps, lighting and curb extensions.
		397	LA City	Grand Av Pedestrian Enhancements: Enhance pedestrian access to transit through new sidewalks, street trees, crosswalks, street furniture, bulb-outs and other amenities (also enhances efficiency & safety of corridor) on Grand Avenue between Washington Bl and Martin Luther King Jr. Bl.
		408	LA City	La Cienega Bl Pedestrian Enhancement ( La Cienega Bl between Melrose Av and Waring Av): Enhance pedestrian environment and access to transit through street trees, controlled crosswalks, street furniture, bulbouts and other amenities (also enhances efficiency & safety of corridor)
		411	LA City	Los Angeles Neighborhood Initiative - Green St Project along 4th St between Matthews St and Mott St: Planting drought-tolerant and native plants and trees, rain gardens, swales, the installation of permeable pavement and new curbs and enhance sidewalks to improve pedestrian access to transit systems
		414	LA City	Main St Transit/Pedestrian Enhancement - 2nd to 4th St: Enhance the public right-of-way for pedestrians and transit users with improved lighting, shade, trees, and curb extensions.

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Active Transportation	Pedestrian Program	417	LA City	Olympic Bl Pedestrian Circulation Project: Install bus shelters, benches, trash receptacles, security lighting, decorative crosswalks, and sidewalk improvements on Olympic Bl between Crenshaw Bl and Vermont Av
		423	LA City	San Pedro Street Pedestrian Enhancements: Enhance ped access to transit via sidewalk repair, ADA curbs, crosswalks, bulb-outs, storm drain repair, bioswales, and pedestrian signage at key intersections (enhance access to Ricardo Lizarraga School)
		424	LA City	Sepulveda Bl Pedestrian Improvements: Implement sidewalk and streetscape improvements, bus stop lighting at transit stops, and enhanced crosswalks on Sepulveda Bl between 76th St and 80th St
		435	LA City	Washington Bl Streetscape Improvement (Washington Bl between 110 Fwy and Normandie): Improve ped connectivity to transit stops at key intersections along Washington (@Vermont, Normandie & Hoover) including enhanced crosswalks, medians, lighting, bus stop amenities, information kiosks, street trees, etc.
		766	LA City	Pedestrian Access: Implementation of several Community Plan Implementation Overlay sub-districts that contain enhanced pedestrian standards as well as include preliminary streetscape plans that enhance the public realm for peds as well as other non-vehicular modes of transportation
		792	LA City	Priority Pedestrian Routes: Implement streetscape plans for Crenshaw Bl (between Santa Monica Freeway and Florence Av. as well as within the district boundaries of the following CPIO areas: Crenshaw/Expo TOD, La Brea/Farmdale TOD, Jefferson/La Cienega TOD, Venice/National TOD, Crenshaw/Slauson TOD, West Bl TOD, and Hyde Park Industrial Corridor
		1900	LA City	Develop a prioritized list of pedestrian crossing improvements through pedestrian safety audits throughout the community. Include enhanced features such as bulb-outs, landscaped median refuges and audio/visual warnings where appropriate.



Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Active Transportation	Pedestrian Program	1930	LA City	Taylor Yard Bicycle/Pedestrian Bridge Construction: Per MOU between Metro & LADOT, provide a safe and convenient bicycle and pedestrian link between the LA River Bikeway (on west bank) and the Rio de Los Angeles State Park (on east bank). The project includes the construction of a ped/bikeway bridge to connect the LA River Bike Path to communities and bike infrastructure on the east bank. The project includes a minimum 400' long bridge over the River and an at-grade crossing of the existing UP emergency spur tracks. Scope may be expanded to include bike lanes along Taylor Yard Access Road to San Fernando Road, or to provide linkage to the bike trails in the State Park.
		3060	LA City	Construct crosswalk bump-outs and related streetscape improvements on Temple St between Hoover St & Glendale. Project will provide for various streetscape improvements.
		3089	LA City	Implement the Broadway Streetscape Master Plan on Broadway between 1st Street and Olympic Bl.
		3544	LA City	Implement Pedestrian Enhanced Districts as defined in Mobility Plan 2035.
		3622	LA County	Pavement Preservation
		3623	LA County	Sidewalk, Curb, Parkway Preservation; Repair and Reconstruction
		3624	LA County	Pedestrian Improvements
	Safe Routes to School Program	3535	LA City	Implement Los Angeles Safe Routes to School Initiative to provide targeted safety improvements at schools with high collision rates. Improvements may include new traffic signals, curb extensions, wider sidewalks, new crosswalks, traffic calming measures, etc.
	Streetscape Program	808	LA City	Implement streetscape plans for Neighborhood Districts along Robertson and Washington Bl, as well as Leimert Park Village and the Crenshaw/Slauson Area, as well as the Transit Oriented Development Areas along the Mid-City Exposition and Crenshaw/LAX transit Corridors
		1910	LA City	Implement streetscape plans for areas of high pedestrian and commercial activity and mixed-use boulevards well-served by transit, as well as the Transit Oriented Development Areas along Metro's Expo, Blue and Green LRT Corridors, such as Washington Bl from Figueroa St to Central Av.

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Active Transportation	Streetscape Program	1935	LA City	Av 26 to Gold Line Cypress Station Ped Connection: St tree installation, bio-retention planters, bike lanes, lighting, access ramps, enhanced crosswalks, and bulb-outs. Av. 26 between Pasadena Av & San Fernando Rd
	Vision Zero and Safety Program	3534	LA City	Implement roadway enhancements that enhance mobility and safety for all and strive toward the City of LA "Vision Zero" goal of zero traffic fatalities by 2025.
	Complete Streets Program	1936	LA City	Beverly Bl – Vermont to Commonwealth: Bike lanes, curb extensions, signs and decorative sidewalks
	Rail Program	3610	LA City	Implement pedestrian safety and accessibility improvements at and adjacent to freight and LRT rail crossings including.
Arterial	Streetscape Program	340	LA City	Central Av Streetscape Enhancements: Enhance ped access to transit through new sidewalks, ADA ramps, street trees, crosswalks, street furniture, bulb-outs, other amenities
	Vision Zero and Safety Program	3611	LA City	Identify and implement pedestrian safety and bicycle countermeasures at the 10 corridors with the highest severe injuries and collisions.
	Capacity Enhancement Program	33	Multi Jurisdiction	College St Bridge over 110 Fwy – Replace with wider bridge to improve capacity. Raise the superstructure to resolve underclearance deficiency
		51	LA City	Santa Fe Av (8th St to Olympic Bl): Widen to increase capacity and access to I-10 ramps
		452	LA City	Fletcher St Bridge/LA River: Widen to increase capacity and improve access to I-5 Fwy; add bike lanes and sidewalks
		454	LA City	Grand Avenue bridge widening over US-101 Fwy: Widen the existing bridge to provide dual left-turn lane onto the 101 and 110 fwy on-ramps; add through lane and right turn lane; widen sidewalk.
		459	LA City	Widen Mission Road (Griffin Av to Marengo St ) to provide an additional through lane in each direction, and install new pedestrian signal at Sichel St

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Arterial	Capacity Enhancement Program	460	LA City	Widen N Spring St (Rondout St to Baker St) from 44 ft to 80', consisting of: two vehicle travel lanes in each direction with left hand turn lanes into the park, bike lanes, widened sidewalks/new sidewalks where none exist, curb and gutters, catch basins, new street trees, street lighting, on-street parking, signalized crosswalks, landscaped medians, and decorative native landscaping. Sidewalks will be widened to 16', 8' on-street parking lanes, 5' bike lanes in each direction, two 12' vehicular travel lanes in each direction.
		465	LA City	Valley Bl Rail Corridor Improvements: Enhance traffic flow and pedestrian crossing safety at railroad crossings through spot roadway widening, sidewalk improvements, and upgrade the signal systems and railroad crossing equipment along Valley Bl.
		474	LA City	Fairfax/Olympic/San Vicente Intersection Enhancement: Enhance the operational efficiency and safety of this chronically congested intersection by increasing the storage for left-turning vehicles, by upgrading the traffic signal equipment, installing left-turn phasing, etc.
		475	LA City	Laurel Canyon Bl & Mulholland Dr: Widen the west side of Laurel Canyon Bl s/o Mulholland Dr to carry 2 southbound lanes through the intersection
		476	LA City	Olympic Bl and Soto St Intersection Widening: Improvements to the intersection by increasing the curb return radius of all four corners and Olympic Bl approaches, improve the roadway, provide ADA compliant access ramps, sidewalks, upgraded traffic signals and street lighting and street trees. ROW required.
		3087	LA City	Improve Glendale Bl/fly rat 2 terminus reconfigure/redesign, traffic mgmt. Neighborhood safety measures (tea21- #413).
		3105	LA City	Normandie Av & Pico Bl intersection improvements: reconstruct and widen the NW corner of the intersection. Remove the traffic island s/o the intersection on Normandie Av.
		3486	LA City	Capacity enhancements at San Fernando Rd West/Brazil St and San Fernando Rd West/Doran St. Widen and improve north and south sides of Brazil St and Doran St to create additional lanes, curb and gutter in each direction; increase curb returns to facilitate truck movements

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Arterial	Capacity Enhancement Program	3625	LA County	Bridge Rehabilitation
	Complete Streets Program Complete Streets Program	1897	LA City	Implements “complete streets” by adopting a Generalized Circulation System, Modified St Designations, and Priority Sts that focus the priorities for street investments on the following modes of travel: pedestrians, bicycles, transit and motorized vehicles.
		1923	LA City	Slauson Av from Vermont to Crenshaw Av. reconstruction; bike lanes, ped improvements, street trees, median enhancement
		3533	LA City	Implement Complete Streets Enhancements along key arterials as defined in the Mobility Plan 2035
		3626	LA County	Aesthetics - Beautification
		ITS Program	60	LA County
	61		LA County	TSM Improvements - Beverly Bl - Pomona St to Painter Av
	62		LA County	TSM Improvements - City Terrace Dr - Indiana St to Eastern Av
	63		LA County	TSM Improvements - Floral Av - Eastern Av to Mednik Av
	64		LA County	TSM Improvements - Olympic Bl - Indiana St to Concourse Av
	65		LA County	TSM Improvements - Slauson Av - Compton Av to Stamy Rd
	66		LA County	TSM Improvements - Union Pacific Av- Indiana St to Marianna
	67		LA County	TSM Improvements - Washington Bl - Grande Vista Av to Sorensen Av
	68		LA County	TSM Improvements: Whittier Bl - Indiana St to Paramount Bl
	493	LA City	Hollywood Event Management: To better manage vehicle and bus flow during commonly occurring special events, implement enhanced incident management strategies such as changeable message signs, CCTV cameras, traffic signal upgrades, wayfinding signage, real-time bus information.	
495	LA City	Traffic Signal System Upgrades: Implement traffic signal system upgrades throughout subregion including signal controller upgrades, left-turn phasing at key intersections, sensor loops, additional CCTV cameras to improve LADOT’s ability to monitor and respond.		

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Arterial	ITS Program	697	LA City	Develop a Sustainable Transportation Demonstration Program to support city partners in implementing innovative capital or operational improvements that apply guidance from the policy. Seek funding from SCAG, AQMD, State Strategic Growth Council, and federal/state grants.
		786	LA City	Priorities for Capacity Enhancements: Provide information to motorists about alternative routes and modes of travel using changeable message signs, highway advisory radio, or other appropriate traffic management techniques.
		1906	LA City	Encourage coordination between public and private entities responsible for the safety and maintenance of the freight and LRT rights-of-way as well as the roadway along Long Beach Bl in order to improve safety as well as beautification of the corridor.
		3627	LA County	Traffic Signal Improvements
	Vehicle Enhanced Network	3160	LA City	Implement Vehicle Enhanced Network as defined in the Mobility Plan 2035.
Freeway	US-101 Corridor Carpool Lanes: SR-27 to SR-2	4	Caltrans	US-101: In each direction, add carpool lanes between SR-27 and SR-2, and restripe for mixed-flow lanes between SR-27 and Ventura Cty Line
	SR-60 Carpool Lanes: US-101 to I-605	6	Caltrans	SR-60 Carpool Lanes: US-101 to I-605
	Improve I-5/SR-2 Interchange	17	Caltrans	Improve I-5/SR-2 Interchange
	I-10 Carpool Lanes: Lincoln Bl to I-5	101	Caltrans	I-10 Carpool Lanes: Lincoln Bl to I-5
	Interchange Program	14	Caltrans	I-10- Improve I-110 interchange
		15	Caltrans	US-101- Improve I-110 interchange
		79	Caltrans	I-10- Improve I-10/SR-60/I-5 interchange
		84	Caltrans	I-5- Improve I-5 and SR-110 interchange
	ITS Program	78	Caltrans	Implement Countywide High Occupancy Toll (HOT) Lanes Network
		224	Caltrans	I-10- Install CCTV and other communications systems

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Freeway	ITS Program	225	Caltrans	I-10- Upgrade Surveillance System
		3021	Caltrans	I-10 and I-110 "HOT" express lanes toll system operations, maintenance, marketing and data collection
	Main Line Program	1	Caltrans	US-101- Widen Edgeware bridge on SB US-101 between Glendale Bl on-ramp and US-101/I-110 interchange to provide auxiliary lanes
		8	Caltrans	I-5- Add HOV lane in both directions between SR-134 and I-110
		9	Caltrans	US-101- Add HOV lanes in both directions between 170 and 110 Fwy
		75	Caltrans	I-5- Construct SB auxiliary lane on I-5 from Ditman Av to Calzona St
		76	Caltrans	I-5- Construct SB auxiliary lane on I-5 from Marietta St to Lorena St
		77	Caltrans	US -101- Add NB and SB auxiliary lanes from Glendale Bl to Cahuenga Bl
		288	Caltrans	I-10 - I-10 Busway
		3027	Caltrans	To extend the I-110 north from its current terminus at I-10 into Downtown Los Angeles via Central City west area. The Adams/Figueroa flyover study, PSR, will investigate how the construction of a new structure connecting the I-110 northbound HOV lane off-ramp directly to Figueroa Street.
	3037	Caltrans	Route 710: study to evaluate technical feasibility and impacts of an alternative to close 710 fwy gap. this study includes environmental studies	
	Ramp Program	81	Caltrans	I-10- Modify EB off-ramps at Western Av, Arlington Av, Crenshaw Bl
		82	Caltrans	I-10/US-101- Widen Cesar Chavez Av over crossing over I-10 and relocate NB 101 Fwy ramps at Cesar Chavez Av
		466	Caltrans	Van Ness Av Widening - US 101 Fwy SB off-ramp to Sunset Bl
		472	Caltrans	Crenshaw Bl & I-10 WB On-Ramp: Widen SB Crenshaw Bl to provide a SB right-turn only lane and redesign the WB off-ramp to reduce congestion and improve intersection operation
3487		Caltrans	Project Rte: I-110 - Between US-101 and I-10, reconfigure freeway ramps to provide additional northbound and southbound lanes in the downtown area	
Goods Movement	Goods Movement Program	47	LA City	Main & Daly- Capacity enhancement at Daly St and Main St. Increase curb returns at NW and SW corners of Daly and Main to facilitate truck movements

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Goods Movement	Goods Movement Program	70	LA City	Alameda Corridor North- between SR-2 and SR-134 – Grade separation (trench) for commuter and freight rail lines
		447	LA City	Alameda St from US-101 to I-10: Widen to 70 ft and remove embedded rails and ties, install left turn channelization and widen curb returns to reduce congestion and improve truck movement
		448	LA City	Alameda St Goods Movement (Downtown): Alameda St. from I-10 to Seventh St - project includes rehabilitation of the roadway, removing embedded rails and ties, installing left turn channelization, spot widening where needed to accommodate truck traffic
		473	LA City	Enterprise St at Mateo St (near WB I-10 off-ramp): Widen Enterprise St at Mateo St (near WB-10 off-ramp) to improve truck movement at curb returns
		477	LA City	Widen to improve truck movement (right-of-way required) at intersection of Olympic Bl and Alameda St
		478	LA City	Widening curb return to improve truck movement through the intersection of Olympic Bl and Santa Fe Av.
		479	LA City	Widening curb return to improve truck movement through the intersection of Porter St and Santa Fe Av
		779	LA City	On-site Loading: Collaborate with business owners/operators in industrial districts to identify deficiencies in access, loading and parking on street
		2982	LA City	Grade separation crossing safety improvements along a 35 mile rail corridor through San Gabriel Valley, East LA, and Pomona
		3068	LA City	East downtown truck access improvements: widenings, improvements, striping, at and near Alameda St & Washington Bl in eastern downtown LA
TDM	Technology Program	57	LA City	Citywide – Vehicle Infrastructure Integration – Integrate vehicle navigation system with Intelligent Transportation System (ITS)
		494	LA City	Hollywood ExpressPark: Implement an on-street intelligent parking program that includes vehicle sensors, dynamic demand-based pricing and a real-time parking guidance system to reduce VMT, congestion and to improve flow for cars/buses.

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
TDM	Technology Program	784	LA City	Performance-Based Parking Supply: Where parking needs assessments indicate excess potential, implement a parking program similar to the Eagle Rock Community Pilot Project that encourages use of "pooled" parking resources to satisfy parking requirements for change of use projects.
		3091	LA City	(ITS) PHASE III. Complete the main communication infrastructure system of the ITS Communication Master Plan by closing all gaps in the existing fiber communication network. As stated in the project description, this project targets critical existing gaps within the city's ITS Fiber Master Plan.
		3531	LA City	Expansion of the ExpressPark program throughout parking-congested areas in the City of Los Angeles. This on-street intelligent parking program includes vehicle sensors, dynamic demand-based pricing, and real-time parking guidance to reduce VMT and congestion.
	Park & Ride Program	482	LA City	Western/Expo Park-and-Ride Facility: The park and ride facility will service the Expo Western Station by providing vehicle and bike parking
		483	LA City	Wilshire Park-and-Ride Facilities: Provide parking for transit users at or near existing and planned metro rail station along Wilshire Bl.
		3557	LA City	Expand the park & ride network in Los Angeles County to meet the current and latent demand of discretionary transit riders to use regional public transportation services.
	TMAs/Carpool/Vanpool Program	88	LA City	Citywide: Add/expand park-and-ride facilities
		89	LA City	Citywide: Create a Transportation Management Association to champion TDM programs
		772	LA City	Alternatives to Automobile: Coordinate with other agencies that conduct demonstration programs for Local Use Vehicles and identify areas where these vehicles can be used to reduce greenhouse gas emissions, air pollution and gasoline consumption.
		1898	LA City	Alternative Traffic Evaluation & Mitigation Programs: Develop alternative traffic mitigation programs such as credits for integrating flex-bike and car share options into new development at transit nodes. Coordinate with LADOT to develop and implement alternative methods to evaluate impacts to the circulation system such as vehicle miles traveled (VMT).

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**



Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
TDM	TMAs/Carpool/Vanpool Program	2998	LA County	LA County rideshare services; provide commute info, employer assistance and incentive programs through core & employer rideshare services & MTA incentive programs
		3001	LA City	I-10 Express Lanes formation of new vanpools and enhanced transit service including security, marketing, and maintenance
	Parking Districts/Park Once Program	1901	LA City	Parking - Commercial Vehicles: Establish overnight parking regulations for commercial, recreational and other nonconforming vehicles in residential and commercial neighborhoods.
		1902	LA City	Creation of parking districts and/or development of shared central parking structures in areas of high parking demand in order to alleviate the need to address all required parking on-site.
		1911	LA City	Implement preferential parking districts and neighborhood traffic management programs to protect residential areas from the intrusion of "through traffic" and speeding where warranted and supported by the community.
	3554	LA City	Implement Park Once / Universal Valet Parking Programs throughout major retail centers in the City, as appropriate, including the use of City owned parking facilities	
Mobility Hubs Program	86	LA City	Citywide- Enhance/expand/coordinate pedestrian, bicycle, and transit information and amenities	
Transit	Crenshaw Line extension to Hollywood	22	Multi Jurisdiction	Crenshaw Bl Corridor Extension (beyond segment funded by Measure R) all the way to Hollywood
	Burbank/Glendale LRT	21	Multi Jurisdiction	Burbank/Glendale LRT from LA Union Station to Burbank Metrolink Station
	"Silver" Line LRT	24	Multi Jurisdiction	"Silver" Line LRT between Metro Red Line Vermont/Santa Monica Station and City of La Puente
	Vermont Corridor Subway	25	LA City	Vermont Corridor Subway: Vermont "Short Corridor" from Wilshire/Vermont to Exposition/Vermont
	City of LA Transit Enhanced Network	3161	LA City	Implement Transit Enhanced Network as defined in the Mobility Plan 2035.

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Transit	Bus/Shuttle Program	793	LA City	Priority Transit Routes: Coordinate CityRide transit services and Los Angeles County ACCESS transit services with social service centers
		1907	LA City	Initiate shuttle bus programs to serve transit stations
		2999	LA City	12 buses for the I-10 El Monte Busway, HOT lane
		3002	LA City	I-10 HOT Lane Operations - New transit services
		3555	LA City	Purchase new DASH shuttle buses and expand LADOT DASH operations to enhance intra-community "first mile/last mile" transit connections to regional transit centers.
		3628	LA County	Local Public Transit
		1904	LA City	Coordinate with local and regional public transit operators to provide expanded public transit options in corridors with high travel demand, as funding permits
	Metrolink Program	19	Multi Jurisdiction	Project Rte: I5 - Expand Metrolink service and capacity on existing trains at various locations to be determined
		20	Multi Jurisdiction	Increase Metrolink service between Moorpark and Union Stn
		3640	LA City	Metrolink EMF Additional Storage Tracks: Increase storage capacity at EMF by extending the length of the existing storage tracks and adding a middle crossover.
		3641	LA City	Metrolink Locomotives (for base case growth of locomotives and cars: This is the amount needed for the "organic" growth (irrespective of 30 min. service) and is not counted as part of the 30 min. growth scenario.
		3642	LA City	Metrolink Another CMF level facility for heavy maintenance (for 30 min. service expansion): Need 100% size of CMF in approximately 2017. Will include the administrative offices from existing CMF, a run-through progressive car and loco shop, S&I, storage tracks, fuel system, train wash, shop machinery, and expanded warehouse capacity.

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Transit	Metrolink Program	3643	LA City	Metrolink Locomotives (for 30 min. service Expansion): To get to a 30 minute headway, 26 additional locomotives will be needed. The cost of rail cars is assumed to be \$7 M/unit. For the "base case" (i.e. non 30 min. service), another 26 locomotives would be needed. The costs for the base case are shown separately.
		3644	LA City	Metrolink Rail Cars (for 30 min. service expansion): To get to a 30 min. headway, 90 additional rail cars will be needed. The cost of passenger car is assumed to be #3M/unit. For the "base case" (i.e. non 30 min. service), another 90 passenger cars would be needed. The costs for the base case are shown separately.
		3645	LA City	Metrolink Reconfiguration of existing CMF (for 30 min service expansion): Relocate admin office to new CMF location and improve capacity by building a run-through progressive car and loco shop at existing CMF
		3651	LA City	Cameras at Metrolink Grade Crossings: Install cameras at grade crossings
		3652	LA City	N. Main St/Albion Street: Metrolink Grade crossing improvements
		3653	LA City	North Main Street Metrolink Crossing Improvements: Signage and striping (crossing within 2100 ft of school), possibly install 3rd active gate to NW quad, possible RT turn restriction for business parking in NW quad due to geometry, sight distance and lack of active protection; 4 quad gates
		Rail Program	23	Multi Jurisdiction
	27		Multi Jurisdiction	West Santa Ana Branch ROW Corridor LRT Alternative based on SCAG Alternatives Analysis study.
	30		Multi Jurisdiction	SR-134 East-West Transit Corridor Connecting North Hollywood, Burbank, Glendale and Pasadena
	72		LA City	N. Main St- N Main St Grade Separation with LA River/Metrolink/Union Pacific Railroad
	96		Multi Jurisdiction	Harbor Subdivision Transit Corridor (connection from Crenshaw Bl to Downtown Los Angeles)

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Transit	Rail Program	498	LA City	Downtown Streetcar: Restore the historic streetcar in Downtown LA servicing key destinations; provide 7 to 15 minute headways; include late evening service; estimated daily ridership is 10,000.
		499	LA City	Hollywood-Mid City Major Investment Study: Prepare engineering feasibility and investment study that evaluates commuter rail alternatives, potential rail linkages and enhanced rail services within Hollywood and Mid-City
		500	LA City	South Los Angeles Major Investment Study: Prepare engineering feasibility and investment study that evaluates commuter rail alternatives, potential rail linkages and enhanced rail services within South Los Angeles
		3137	LA City	Metro Gold Line Eastside Transit Corridor Phase 2 - Extension from its existing terminus at Atlantic Station in East Los Angeles farther east
		3613	LA City	Extend Metro Red/Purple Lines to the Arts District with one new station
	State of Good Repair Program	3556	LA City	Convert existing transit fleet in Los Angeles County to meet goal of 25% zero-emission or near zero-emission buses by 2025
		3558	LA City	Program to purchase new transit operations / maintenance facilities, and upgrade existing facilities, with the capacity to accommodate new zero emission and near zero emission buses.
		3559	LA City	Program to maintain a state of good repair for public transit programs including the replacement and refurbishment of transit vehicles, facilities, and other transit infrastructure.
		3646	LA City	Metrolink Rehab -Short Term: Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		3647	LA City	Metrolink Rehab -Mid Term: Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		3648	LA City	Metrolink Rehab -Long Term: Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)

**SUBREGIONAL MOBILITY MATRIX – CENTRAL LOS ANGELES**

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Transit	State of Good Repair Program	3649	LA City	Metrolink Rehab - Expansion (for 30 min. service on all Metrolink lines): Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		3650	LA City	Metrolink Bring 1 grade crossing to new SCRRRA Standards (including active warning devices and civil improvements) 5 xings/yr * 5 years * \$2M per xing = \$50M Systemwide*: Bring 1 grade crossing to new SCRRRA Standards (including active warning devices and civil improvements) 5 xings/yr * 5 years * \$2M per xing = \$50M Systemwide*
	Transit Station/Stop Improvement Program	501	LA City	Vernon Av Rapid Transit Enhancements (between Normandie Av and Alameda St): Install bus shelters and lighting, crosswalk enhancements, relocate bus stops to the far-side stops, add streetscape amenities to enhance ped\transit user environment
		1942	LA City	Central City Community Bus Stop Improvements including design and installation of bus stop improvements along major transit corridors in neighborhoods just west of downtown Los Angeles, including Temple/Beaudry, Westlake/MacArthur Park, and Pico Union. Improvements will enhance the local environment for passengers boarding and alighting buses serving 24 MTA bus lines, 1 LADOT DASH route and Foothill Transit line 480/481 along Wilshire Bl. Improvements include: bus stop lighting and/or ped-cale lighting, benches, trash receptacles, route and/or time table displays, shade structures and street trees.
		1943	LA City	Vermont Av Bus Stop Improvements - Exposition to Wilshire: Installation of bus shelters and pedestrian security lighting.
		2988	LA City	Downtown Transit Mall Enhancements, such as opening a transit customer service center
		3000	LA City	El Monte Busway Improvements, incl. bike lockers, ticket vending machines at busway stations and up to 30 bus bays; Improvements at the Union Station terminus include passenger station rehabilitation and upgrades and improved pedestrian connection to Patsaouras Plaza/Union Station

Program	Subprogram	MM Project ID	Jurisdiction <sup>1</sup>	Description
Transit	Transit Station/Stop Improvement Program	3072	LA City	Enhance Byzantine Latino Quarter transit plazas at Normandie and Pico, and Hoover and Pico, Los Angeles by improving streetscapes, including expanding concrete and paving
		3103	LA City	Metro Gold Line at-grade crossing mobility enhancements. Deployment of ITS at signalized intersections adjacent to Metro Gold Line at-grade crossings to provide adaptive traffic signal control to improve mobility and enhance safety.
		3593	LA City	Improve and retrofit Metro Pico Station to enhance safety and to better serve the heavy ridership demand that occur after major events at LA Live.
		3594	LA City	Improve and retrofit three Expo Line Stations (Jefferson/USC, Expo Park/USC, and Expo/Vermont) to enhance safety and to better serve the heavy ridership demands that occur after major events at USC and the Los Angeles Memorial Coliseum.
	First-Last Mile Program	18	LA City	Eastside Light Rail Access (Gold Line) - Improvements to first/last mile connections to stations, including bicycle and pedestrian infrastructure such as bicycle lanes, bicycle racks, curb extensions, crosswalks, enhanced pedestrian lighting, and tree canopies for key pedestrian corridors.
Regional Facilities	Union Station Linkages Program	3532	LA City	Implement Union Station Linkages Plan (NOTE: Union Station is a Regional Facility)

<sup>1</sup> “Jurisdiction” may refer to the lead project sponsor, the jurisdiction where the project exists, or the agency that proposed the addition of the project. Projects without specified jurisdictions were sourced from other planning documents (e.g. Metro Long Range Transportation Plan and others) where no lead or proposing agency was listed.



2b. Gateway Cities







## **2b. Gateway Cities**

- 1. Summary of Cost Estimates and Categorizations**
- 2. Project Descriptions**



## **Gateway Cities**

### **1. Summary of Cost Estimates and Categorizations**

**Gateway Cities Mobility Matrix Summary Rough Order of Magnitude Cost Estimates**

Type/ Category	Highway	Arterial	Transit	Active Transportation	Goods Movement	Other	Regional Facilities	Total
Total	Estimates for 69 out of 97 Projects \$12.4B – \$19.3B	Estimates for 160 out of 290 Projects \$1.1B – \$1.7B	Estimates for 38 out of 50 Projects \$6.9B – \$10.4B	Estimates for 54 out of 59 Projects \$210M – \$320M	Estimates for 8 out of 8 Projects \$5.9B – \$8.8B	Estimates for 30 out of 31 Projects \$2.3B – \$3.5B	Estimates for 18 out of 27 Projects \$852M – \$1.3B	Estimates for 377 out of 562 Projects \$29.7B – \$45.3B

Estimated costs in 2015 dollars.

These estimates under represent the operations and maintenance costs due to limitations of data availability. Costs are also underestimated due to projects and programs where cost estimate ranges are still under development.

Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. Any subregional cost sharing agreements will be determined through future planning efforts. One exception to this in Gateway Cities is the Green Line Extension from Torrance to the Metro Blue Line where the cost is included in the South Bay Cities.

Some project/program cost estimates may be duplicative as the Mobility Matrix project list includes programs that may include some of the specific projects submitted by local jurisdictions.

# **Gateway Cities**

## **2. Project Descriptions**

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Highway	SR-91/I-405/I-605 Hot Spots Program	9211	Caltrans, Gateway Cities	I-405: Widening between I-605 and Route I-110.
		8022	Missing	I-605 Corridor "Hot Spot" Interchanges in Gateway Cities
		2021	Bellflower, Caltrans	I-605/Alondra Blvd: Modify Interchange (TOO Close to SR-91/I-605 interchange), Improve Off-Ramp. PM R5.0
		2020	Lakewood	I-605/Del Amo Blvd: Improve Interchange
		2022	Downey	I-605/Florence Ave: Ramp Intersection improvement; Includes Improvements at Florence Ave/Studebaker Road. PM 9.23
		2029	Caltrans	I-605/Pellissier Road: NB Ramps Provide an Exclusive Westbound Right Turn Lane on PELLETIER Road. PM 16.73
		2028	Los Angeles County, Pico Rivera, Caltrans, Industry	I-605/Shepherd Street: NB Off-Ramp RE-Striping the Exclusive Eastbound Right Turn Lane into a Shared Left and Right Turn Lane (Includes I-605/Rose Hills Road Interchange). PM R15.57
		2025	Pico Rivera	I-605/Slauson Ave: Add Additional Northbound Left and Right-Turn Lanes on Northbound Off Ramps
		2024	Santa Fe Springs	I-605/Telegraph Road: Special Transportation Improvement Area, Capacity Needs, Grade Separation
		2026	Pico Rivera	I-605/Washington Blvd: Add Free Right Turn Lane at Southbound Off Ramp
		2027	Whittier/Pico Rivera	I-605/Whittier Blvd: Ramp Intersection improvements
		2057	Caltrans, Compton	SR-91/Alameda Street: Improve Ramps. EB and WB on/off-ramps at Alameda Street. Signal modification and minimum ramp widening. PM 16.70 to 17.42
		2054	Bellflower	SR-91/Bellflower Blvd: Improve Interchange
		2055	Caltrans, Bellflower	SR-91/Clark Ave: Consider Combining Any Improvements at Lakewood BL. with a New W/B On-Ramp From Clark Ave and ALSO Consider Elimination of the SR-91/Clark Interchange. Explore Both Full and No Interchange Options. PM 14.47 to 15.28
		2053	Caltrans, Bellflower, Cerritos	SR-91/I-605: SR-91/I-605 HOV Direct Connector. PM 16.70 to 17.42 Reconstruct Interchange.
		2056	Caltrans, Bellflower	SR-91/Lakewood Blvd: Consider Revising to Diamond TYPE Interchange Design PM 16.70 to 17.42
		2052	Artesia, Caltrans	SR-91/Pioneer Blvd: WB Off Ramp, Intersection Improvement. Signalize 168TH St./Pioneer Blvd or Realign SR-91 WB Off Ramp W/168TH St. To Mitigate Traffic Safety Deficiency. PM 17.87
			9212	Caltrans, Gateway Cities
	I-105: Aux Lanes I-605 to I-110	9210	Caltrans, Gateway cities	I-105: between Route 605 and Route 110. Install aux lanes to eliminate the bottlenecks

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Highway	I-5 Widening and HOV from I-605 to North of I-710	1006	Caltrans, Norwalk, Santa Fe Springs, Downey, La Mirada, Montebello, Commerce	I-5: Widening W/HOV and Mixed Flow Lanes on I-5 in Norwalk from I-605 to North of I-710 (Eastern), Santa Fe Springs, Downey, La Mirada, Montebello and Commerce. PM 6.40-13.4. EA 2159F0
	I-5/I-710 Full Interchange	9017	Caltrans, East Los Angeles, Commerce, Unincorporated Los Angeles	I-5/I-710: Full Interchange. Plan, Design and Construct complete interchange (as a whole). Eastern Ave to Rte 710 (PM 13.4/14.6), EA 2159E0
	I-710 Early Action Projects	8075	Missing	I-710: I-710 Early Action Projects
	I-710 South Widening and Freight Corridor	1008	Caltrans, Commerce, Vernon, Maywood, Bell Gardens, Pico Rivera, Downey, Norwalk, Long Beach	I-710: Widening and Freight Corridor. Widen to 10 Mixed Flow Lanes (Addition of Lanes Vary with I-710 Segments). Reconfigure Approx. 13 Local Access Interchanges Between Ocean Blvd/Shoreline Dr. and Atlantic Blvd/Bandini Blvd Arterial Improvements. Construction of Freight Corridor on I-710 (4 Truck Lanes with Dedicated Ingress/Egress at Select Locations (Harbor Scenic Drive, Ocean Blvd, Pico Ave, Anaheim Street, South of PCH, North of I-405 at 208TH Street, SR-91, Patata Street, Bandini Blvd, Washington Blvd and Sheila Street)). EA 24990
	SR 60: Add 1 HOV Lane Each Direction US-101 to I-605	1007	Montebello	SR-60: Add 1 HOV Lane each Direction from US-101 to I-605
	HOT/HOV Program	9303	Caltrans	I-105/I-605 HOV direct connector. I-105 to I-605, PM 17.82
		1002	OCTA	I-405/SR-22 and I-405/I-605: HOV Connectors on SR-22/I-405 and on I-405/I-605 with 2nd HOV Lane in each Direction on 405 Between Connectors. Seal Beach to Katella Ave
		9401	Caltrans	I-5 to I-10
		9302	Caltrans	I-710 HOV Lanes. I-105 to I-5. PM 15.70 to 23.30.
		9300	Caltrans	I-710 HOV Lanes. I-405 to SR-91. PM 9.40 to 13.00.
		9301	Caltrans	I-710 HOV Lanes. SR-91 to I-105. PM 13.00 to 15.70.
1015		OCTA	SR-22: Improvements to SR-22 Westbound to Facility Access Points for the HOT Lane on I-405 from 0.3 miles west of I-605 to I-405	
9400		Caltrans	SR-60 from I-710 to I-605. PM 3.30 to 11.80.	
9244	Caltrans, Carson	SR-91/I-110: Route 91 WB to Route 110 HOV connector. Connector Widening adding HOV on WB Rte 91 between Central to NB Route 110		

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Highway	Highway Ramps and Interchanges Program	9222	Caltrans, Lynwood	I-105/Alameda Street: EB and WB Signal and channelization
		9221	Caltrans, Los Angeles	I-105/Avalon: At EB and WB ramps, improve signals, peds crossing and ramp metering improvements
		9218	Caltrans, Downey	I-105/Bellflower: Ramps improvements and pedestrian marking improvements. Improve signals and left turn pockets to WB on-ramp and EB off-ramp
		9219	Caltrans, Downey	I-105/Clark Ave: Improve signals at the EB and WB ramps
		9224	Caltrans, Paramount	I-105/Garfield Artesia Blvd: Street improvement, signal modification, ped signal, aux lane and etc WB -ramp and EB off-ramps
		9225	Caltrans, Paramount	I-105/Garfield Ave: Improve ramp metering and pedestrian signals at EB and WB off-ramp and on ramps
		9223	Caltrans, Lynwood	I-105/Long Beach Blvd: EB and WB ramps widen and install aux lane and improve left turn pockets at Long Beach Blvd
		9226	Caltrans, Paramount	I-105/Paramount: Ped enhancement at the EB and WB on and off-ramps and left turn pockets, signal modifications
		9236	Caltrans, Carson	I-110/91: NB Route 110 to EB Route 91 widening connector, lighting, and safety barrier
		2001	Long Beach/Signal Hill, Caltrans	I-405/Cherry Ave: Implement Traffic Enhancements for I-405/Cherry Interchange which Include Widening Merge Points; Relocating Metering Locations & Intersection Realignment. PM 4.88. Conduct design studies to evaluate and develop alternatives for I-405/Cherry interchange which include widening merge points; relocating metering locations
		9220	Caltrans, Long Beach	I-405/Cherry Ave: Widen NB off-ramp and install signals at Cherry Ave
		4058	Los Angeles	I-5 NB (off)/Telegraph Rd (at S McBride Ave): TIA Document Suggests Upgrade to Signal From TWSC for Intersection ID#35; Same Proposal for Alternatives 1A, 1B, 2B, 3A, Studied.
		2010	Downey	I-5 NB/Rosemead Blvd-Lakewood Blvd: Ramp Intersection improvements
		2003	La Mirada	I-5/Artesia: Artesia @ I-5 Intersection Improvement Realign N/B Off-ramp and S/B Onramp; in Conj W I-5 Widening From 2 to 3 Lanes. (PS&E Only); New Intersection. Recommended as Part of I-5 Widening Project @ I-5 NB Ramps/Artesia Blvd & Firestone (N). PM 5.88
		2013	Los Angeles	I-5/Atlantic Blvd/Eastern Ave: Ramp Intersection improvements (Includes Eastern/Telegraph). PM 12.80
2005	Norwalk	I-5/Carmenita: Remove 2 Existing Lane Structures and Construct a New Interchange with Tight Diamond Ramps; Construct a Grade Separation for the Railroad Crossing South of Freeway. PM 13.78		
2012	Los Angeles	I-5/Garfield: Ramp Intersection improvements (Includes Telegraph Road/Malt Ave Improvements at I-5). PM 11.10		



### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Highway	Highway Ramps and Interchanges Program	2064	Missing	I-5/San Antonio and Adoree Street (I-5 SB on, I-5 NB off). Intersection widening here is Recommended as Part of I-5 Project: for all I-5 Alternatives, Add 1 NB Thru Lane and 1 SB Left Lane; Same LOS Results for all Alternatives. PM 0.00 to 6.85
		2011	Los Angeles	I-5/Slauson Ave: SB Ramp Intersection improvements (Includes Telegraph Road No Washington, and Telegraph Road SO Slauson). PM 9.79 to 11.77
		2065	Missing	I-5/Union/Paddison: I-5 SB Off at Union/Paddison. New Intersection Recommended as Part of I-5 Widening Project: NB (0.5 /0 /0.5), SB (1 /0 /1), EB (0.5 /0 /0.5), WB (0 /0 /0); Same Configuration for all I-5 Alternatives, though LOS results vary. PM 0.00 to 6.85
		2004	Cerritos	I-5/Valley View Ave: New Intersection Recommended
		2023	Downey/Caltrans	I-605/Firestone Blvd: Ramp Intersection improvements (Double Left Turn Lane Backs Up, On-Ramp Needs Soundwall)
		2044	Long Beach	I-710/Alondra Blvd: Reconfigure Interchange at I-710 and Alondra Blvd. PM 13.90
		2037	Long Beach, Caltrans	I-710/Anaheim Street: Reconstruct all Freeway Ramps, Modify Interchanges
		2049	Vernon	I-710/Atlantic & Bandini: Under Crossings, Phase 1 Modify I/C and Relocate I-710 N/B on Ramp & Extend S/B On-Ramp @ Atlantic & N/B Off Ramp @ Bandini Blvd; TIA Suggests Alternative Configuration for Intersection. PM 22.00
		2041	Long Beach	I-710/Del Amo: Reconfigure Interchange at I-710 and Del Amo (Includes Del Amo/SUSANA Improvement). PM 10.80
		2047	South Gate	I-710/Firestone: Widen On-Ramp at I-710/Firestone Blvd Interchange and Soundwall From 4.7 M to 6.4M, PM 18.44
		2040	Long Beach, Caltrans	I-710/I-405: Interchange Reconstruction. Improve I-710 and I-405 Interchange (May be a part of RTP project #LA0B952.). PM 7.60
		2046	South Gate	I-710/Imperial Hwy: Addition of a Ramp Directly at Imperial Highway (Removal of the Existing Off Ramp at Abbot Rd./Wright Rd.). PM 17.20
		2042	Long Beach	I-710/Long Beach Blvd: Reconfigure Interchange at I-710 and Long Beach Blvd. PM 12.01
		2062	Caltrans	I-710/Oak Street and Indiana Street: New SB Off-Ramp and NB On-Ramp
		2038	Long Beach, Caltrans	I-710/Pacific Coast Hwy: Reconstruct all Freeway Ramps, Modify Interchanges, Realign Freeway Through the Interchange
		2035	Long Beach, Caltrans	I-710/Shoreline Drive: Reconfigure Interchange at I-710 and Shoreline Drive Realign and Replace Bridge, Modify and Remove Some Connections. PM 6.10
		2048	LA Metro, GCCOG, Caltrans, SCAG	I-710/Slauson: New Interchange at Slauson Ave. PM 21.02
		2043	Long Beach, Caltrans	I-710/SR-91: Build Ramps to Connect I-710 Freight Corridor to SR-91 (May be a part of RTP project #LA0B952.). PM R11.67

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description	
Highway	Highway Ramps and Interchanges Program	2059	Caltrans, Commerce	I-710/Washington Blvd: Access to Washington Blvd Using the 3 Ramp Intersections at Washington Blvd (Design Option #1) Access to Washington Blvd Using the 2 Ramp Intersections at Washington Blvd (Design Option #2) Access to Washington Blvd Interchange Ramps Removed, FC Ramps Provided in and out of Rail yards (Design Option #3)	
		2039	Long Beach	I-710/Willow Street: Reconfigure Interchange at I-710 and Willow Street. PM 7.90	
		2032	Montebello	SR-60/Paramount Blvd/Greenwood Ave: Provide Additional Turning Lanes at SR-60 On/Off Ramp at Paramount Blvd Intersection, Freeway Access Improvement. PM 7.60 to 7.93	
		9020	Compton	SR-91 Crossings @ Alameda, Wilmington & Central. Analyze these crossings for turning movements for both on/off ramps in both directions. Improve truck turning radiuses and improve traffic signalization for efficient vehicle movement all around. Recommended segment review 2 block length on each side of freeway.	
		9209	Caltrans, Carson	SR-91/Avalon: WB and EB on-ramp signal modification and widening Avalon	
		8040	Bellflower	SR-91/Bellflower: Landscape and Irrigate East Bound 91 Freeway on and Off Ramps at Bellflower BL. PM 15.48 to 15.81	
		9241	Caltrans, Carson	SR-91/Central Ave: EB and WB Route 91 at Central Ave. Signal modification and widening at the ramps	
		9240	Caltrans, Long Beach	SR-91/Cherry Ave: EB off-ramp, WB on ramp, EB on-ramp at Cherry Ave. Install double NB Cherry Ave on-ramp to WB and SB to EB	
		9231	Caltrans, Long Beach	SR-91/Lakewood Blvd: WB and EB on, off-ramps and on-ramps at Lakewood Blvd. Widening, signal modifications and channelization for NB and SB Lakewood to EB and WB Rte 91	
		9229	Caltrans, Cerritos	SR-91/Norwalk: EB and WB Rte 91 on/off- at Norwalk. Signal modification and channelization	
		9232	Caltrans, Long Beach	SR-91/Paramount Ave: Route 91 EB off, WB on-ramp widening at Paramount Ave. Install double left-turning lane for NB Paramount to WB and EB Route 91 widening and signal modifications.	
		9233	Caltrans, Long Beach	SR-91/Paramount: Route 91 WB off-ramp and WB on-ramp. Widening and channelization improvements	
	9230	Caltrans, Compton	SR-91/Wilmington: EB and WB on/off ramps at Wilmington. Signal modification and minimum widening		
		Highway TSM/ITS	9234	Caltrans	I-105: On Rte 105 from Rte 110 to Rte 605, PM 7.2/17.9, Upgrade Transportation Management System
			9215	Caltrans	I-405: On Rte 405 from Orange County Line to Alameda St, PM 0/8.78, Upgrade Transportation Management System
	9239		Caltrans	I-5: On Rte 5 from Rte 605 to Rte 710, PM 6.8/13.8, Upgrade Transportation Management System	

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Highway	Highway TSM/ITS	9237	Caltrans	I-605: In Los Angeles County on Rte 605 from Orange County Line to Rte 60, PM 0/17.4, and in Orange County on Rte 605 from Rte 405 to Los Angeles County Line, PM 0/0.3, Upgrade Transportation Management System
		9103	LA County, Gateway Cities	I-710 and SR-91: ITS Improvements-Expansion of the I-710 and Sr-91 Corridors, Regional Traffic Signal System
		9214	Caltrans	I-710: On Rte 710 from Ocean Blvd. To Rte 405, PM 4.96/9.4, Install CCTV & Communications Systems
		9238	Caltrans	I-710: On Rte 710 from Rte 405 to Rte 60, PM 9.4/24.6, Upgrade Transportation Management System
		9213	Caltrans	SR-91: On Rte 91 from Lakewood Bl to Orange County Line, PM 14.6/20.7 Upgrade Transportation Management System
		9235	Caltrans	SR-91: On Rte 91 from Rte 110 to Lakewood Bl., PM 6.5/14.6, Upgrade Transportation Management System
		9242	Caltrans	Various Routes in County of Los Angeles such as Routes 1, 5,19, 22, 47, 72,90, 91,103,105, 405, 605, 710, Upgrade traffic signal system, connect with ramp metering system, install CCTV cameras and establish communication with fiber optic system and upgrade communication of Field Device IP
		9243	Caltrans	Various Routes such as Routes 1,5,19, 22, 47, 72, 90, 91, 103, 105, 405, 605, 710. Upgrade traffic signal system with current standards and operational needs.
	Smart Corridors Program	9200	GCCOG	Gateway Cities Smart Corridors Program. Design and Implementation of the Gateway Cities Smart Corridors Program – includes the design and construction of the Smart Corridors identified in the GCCOG STP
	Soundwalls Program	8077	Caltrans	Various Highways. Grouped Projects for Noise Attenuation (Soundwalls) (Only EA00234 on Rte 710 Remaining. Projects are Consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 Categories.
	State of Good Repair	8086	Missing	AC Conversion. HBRR Local Bridge Lump Sum - (Projects are Consistent with 40 CFR Part 93.126,127,128, Exempt Tables 2 & 3)
		8024	Caltrans	I-710: Rte 710 PCH to Downtown L.B., Pavement Recon, Median, Landscaping Improve (EA 2203U, 23640, PPNO: 2945,3248)
		9246	Caltrans	Various Highways. Implement projects in Caltrans 10-Year SHOPP list in Gateway Cities.
Arterial	Arterial Capacity Enhancement Program	5001	Artesia	170th Street: Improve 170th Street to Accommodate 2 Lanes of Traffic and Mitigate Safety Deficiencies. From Elaine to Westerly Terminus
		5097	South Gate	Alexander Ave: Roadway Extension from Firestone Blvd to Ardmore Ave
		5072	Paramount	Alondra Blvd: Widen to 3 Lanes in each Direction from LA River to Lakewood Dr

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial Capacity Enhancement Program	5095	South Gate	Ardmore Ave: Roadway Extension - Extend Ardmore Ave Through Union Pacific Railroad ROW From Otis Street to Atlantic Ave/Salt Lake Ave/Patata Street Intersections. Street Extensions will Include Bike Facilities. From Otis St to Garfield Ave
		5007	Cerritos, La Palma	Artesia Blvd: 4 Lanes to 6 Lanes from Bloomfield Ave to Shoemaker Ave
		5049	La Mirada	Artesia Blvd: Restriping to Add an Additional Lane from Knott Ave to Valley View Ave
		5099	South Gate	Atlantic Ave: 4 Lanes to 6 Lanes (Citywide). From north city limits (Patata St) to south city limits (Abbott Rd)
		8056	Montebello	Beverly Blvd. Widening Phase III - Widen From 56 Ft. To 76 Ft. between curb to provide Six 11- FT. Travel Lanes, 10 Ft. Turn Lane. (PPNO 2367). Montebello Blvd to Rea Dr. 1 additional lane in each direction.
		5100	South Gate	Borwick Ave: Roadway Extension from Garfield Ave to City Limits
		5054	Long Beach, Signal Hill	California Ave: Widen California Ave Between Willow Ave to Spring St to Secondary Modified Highway Street Standards (Non-Capacity)
		5040	Hawaiian Gardens	Carson Street: Widen From 4 Lanes to 6 Lanes from Norwalk Blvd to west of Norwalk Blvd
		9021	Compton	Central Ave: Corridor Improvements. Analyze for efficient vehicle movement along this corridor. Corridor provides primary connectivity between SR-91 and I-105 freeways.
		5045	Hawaiian Gardens	Cerritos Ave (OC): MPAH Build-Out, 1280.99' from Cerritos Ave
		5111	Signal Hill	Cherry Ave: Widen Arterial From One Lane to Two Lanes in each Direction at Cherry Ave Between 19th St. and Pacific Coast Highway
		5024	Commerce	Ferguson Drive: Improvements to Ferguson Drive to Accommodate Expected Arterial Traffic Loads. Possible Reduction in Sidewalk Widths on the North Side
		5027	Downey	Firestone Blvd: Improvements From Ryerson Ave to Stewart and Gray, Widen Sections (Bottleneck for Turn Lanes), Rehab, Upgrade Handicap Ramps
		5105	South Gate	Firestone Blvd: From West City Limits (Alameda St) to Annetta Ave. Capacity Improvements. Increase the Number of Lanes From 4 to 6 on Firestone Blvd Within the ROW, Raised LS Medians, Sidewalks, Bus Shelters & Pullouts, C&G, Street Lighting, & Utility Relocation. Widen Sections (Bottleneck for Turn Lanes, Street Reconstruction, Rehab and Resurfacing) and Upgrade Handicap Ramps (May be a part of RTP project #LAF3124.)
		9208	Santa Fe Springs	Florence Ave and Slauson Ave Corridor Improvements within City Limits
5108	South Gate	Garfield Ave: Beautification and Capacity Improvements. Widen to Three Lanes, Adding Median with Left-Turn Pockets, Bus Shelters, Street Lighting, and Utility Relocations. From South of the Rio Hondo Channel to Firestone Blvd		
8037	Long Beach	I-710: End of Freeway Traffic Calming. Develop and Implement Traffic Calming Measures for Traffic Exiting the I-710 into Long Beach		

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial Capacity Enhancement Program	5112	South Gate	Imperial Hwy: Widen Imperial Highway to Three Lanes in each Direction and Construct a Raised Median from the east city limits to the west city limits
		5096	South Gate	Independence Ave: Roadway Extension - Extend Independence Ave Through Union Pacific Railroad ROW From Otis Street to Atlantic Ave/Salt Lake Ave/Patata Street Intersections. Street Extensions will Include Bike Facilities. From Otis St to Garfield Ave
		5073	Paramount, Bellflower, Lakewood, LA County, Caltrans	Lakewood Blvd: Widen Sections (Bottleneck for Turn Lanes, Street Reconstruction, Rehab and Resurfacing) and Upgrade Handicap Ramps
		5029	Downey	Lakewood Blvd: Widen Sections of Lakewood from Telegraph to 5th St for Turn Lanes, Street Reconstruction. Widen to Provide 3 Lanes in each Direction & 50 Curb Returns at Intersections, Reconstruct Infrastructure to Extend Life by 50 Years, Replace Landscaping, Lighting, & Traffic Signals. Project will go From 4 to 6 Lanes.
		5115	South Gate	Long Beach Blvd: Beautification and Capacity Improvements. Widen to Three Lanes, Adding Median with Left-Turn Pockets, Sidewalks, Bus Shelters, Utility Relocation. From north city limit (Santa Ana Ave) to south city limit (Tweedy Blvd)
		5062	Lynwood	Los Flores Blvd : Widening from Peach St to Long Beach Blvd
		5057	Long Beach	Pacific Coast Hwy: Lane Addition. Reconfigure Lanes for Efficiency
		5110	South Gate	Paramount Blvd: Widen Paramount Blvd to Three (3) Lanes in each Direction and Construct a Raised Median. From north city limits (Gardendale Ave) to south city limits
		5113	South Gate	Patata Street: Widen and Extend Patata Street From Atlantic Ave/Salt Lake Ave Intersection to the Eastern Ave/Garfield Ave Intersection. Patata Street Extension will be Grade Separated over the LA River and the I-710 Freeway and will Provide Access Ramps to the Project I-710 Freight Corridors.
		5085	Pico Rivera and City of Downey	Rosemead Blvd/Lakewood Blvd: Multi-Modal Capacity Enhancement Project. Widen From Two Lanes to Three Lanes in each Direction from City of Downey-Gallatin Rd to North City Limits
		5116	LA County	Santa Fe Ave: Roadway Extension from unincorporated County to Independence Ave or Ardmore Ave
		5071	Paramount	Somerset Blvd: at L.A. River. Widen for Medians, Shoulder Lanes and Wide Sidewalks. From Somerset Blvd to LA River
		5122	Vernon	Soto Street: Complete Road Widening Project, Acquire Right-of-Way to Achieve
		5011	Cerritos	South Street: Widen From 4 Lanes to 6 Lanes from Gridley Rd to Pioneer Blvd
5010	Cerritos	South Street: Widen From 4 Lanes to 6 Lanes from Palo Verde Ave to Studebaker Rd		

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial Capacity Enhancement Program	5107	South Gate	Southern Ave Extension, Firestone Blvd: Joint Access and Frontage Road System from Burtis St to the New Southern Ave Extension, Firestone Blvd
		5093	Long Beach	Spring Street: Widening from Long Beach Blvd to Atlantic Ave
		5063	Lynwood	State Street: Widening from Lynwood Rd to Webber Ave
		5017	Commerce	Washington Blvd: Widen and Reconstruct Washington Blvd From 2 Lanes to 3 Lanes in each Direction, Increase Turn Radius and Medians, Signals, Lights, Sidewalks. From Commerce/Vernon City boundary to I-5 at Telegraph
		9057	Vernon, Los Angeles	Washington Blvd: Widen to Three Lanes in each Direction from 1000 feet west of Downey Rd to Commerce City Boundary
		5123	Whittier	Whittier Blvd: Upgrade Whittier Blvd to a Six-Lane Major Arterial with Special Enhancement Features, Improving Critical Intersections
		5118	South Gate	Wilcox Ave: Construct New Roadway From the Patata Street Extension to Southern Ave. A Portion of the Street may be in the Union Pacific Railroad Right-of-Way
		5094	Signal Hill, Long Beach	Willow Street: Widening from Terminal Island Fwy to Cherry Ave
	Arterial Intersection Improvement Program	3004	Cerritos	183rd Street/Bloomfield Ave: Intersection Improvement. 2ND WBL Turn Lane
		3119	Vernon	38th St/Santa Fe Ave: Intersection widening
		3055	Long Beach	Alamitos Ave/7th Street: Intersection Improvement. Reconfigure Luther King Jr. Ave/7th Street and Alamitos to Improve Traffic Operations
		3105	Paramount	Alondra Blvd/Atlantic Ave: Intersection widening
		3101	Paramount	Alondra Blvd/Garfield Ave: Intersection widening
		3017	Compton	Alondra Blvd/Long Beach Blvd: Intersection widening
		3102	Paramount	Alondra Blvd/Paramount Blvd: Intersection widening
		3013	Compton	Alondra Blvd/Santa Fe Ave: Intersection widening
		TBD	Metro	Alondra Boulevard Crossing Improvements. 4 quad gates to improve speed and safety. BNSF
		3069	Long Beach	Anaheim Street/Cherry Ave: Intersection widening
		3067	Long Beach	Anaheim Street/Magnolia Ave: Intersection widening
		3068	Long Beach	Anaheim Street/Pacific Ave: Intersection widening
		3066	Long Beach	Anaheim Street/Santa Fe Ave: Intersection Configuration may change due to Other Ongoing Projects
		3091	Commerce, East Los Angeles	Arizona Ave/Telegraph Road: Intersection improvement
		3005	Cerritos	Artesia Blvd/Carmenita: Intersection Improvement. 2nd EBL Turn Lane, Stripe NBR Turn Lane
3078	Long Beach	Artesia Blvd/Long Beach Blvd: Intersection widening		

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial Intersection Improvement Program	3113	South Gate	Atlantic Ave/Southern Ave: Intersection Improvements. Construct Dual-Left Turn Lanes on the Southbound and Westbound Approaches. Add Protected Left-Turn Phasing on all Approaches
		3114	South Gate	Atlantic Ave/Tweedy Blvd: Intersection Improvements. Construct Dual-Left Turn Lanes on the Southbound and Westbound Approaches. Add Protected Left-Turn Phasing on all Approaches
		3168	Commerce	Atlantic Blvd/Telegraph Rd: Intersection improvement
		3021	Downey	Bellflower Blvd/Imperial Hwy: Intersection Improvement. Dual Left-Turn on the Northbound and Southbound Approaches; Construction of Right-Turn Pocket in the EB, SB, and NB Directions; and Reconstruct Curb Returns at each Corner with 50-FT Radii
		3022	Downey	Bellflower Blvd/Washburn Road: Intersection improvement. Construct the West LEG
		3152	Cerritos	Bloomfield Ave/Artesia Blvd: Intersection improvement
		3133	Santa Fe Springs, Norwalk	Bloomfield Ave/Imperial Hwy: Intersection improvement
		3023	Downey	Brookshire Ave/Firestone Blvd: Intersection improvement.
		3110	South Gate	California Ave/Firestone Blvd: Intersection Improvement. Restripe for Exclusive WB Right Turn Lane and Construct Dual Left-Turn Lanes on the Eastbound and Westbound Approaches; (May be a part of RTP project #LAF3124.)
		3151	Santa Fe Springs	Carmenita Road/Telegraph Road: Intersection improvement
		TBD	Metro	Carmenita Road Crossing Improvements. 4 quad gates to improve speed and safety. BNSF
		4023	Hawaiian Gardens	Carson Street /Violeta Ave: Intersection Improvement. Traffic Control System IMP. To Expedite Access To/From Freeway
		3043	Hawaiian Gardens	Carson Street/Norwalk Blvd: Intersection improvements. 3rd EB Through Lane and 3RD WB Through Lane
		3044	Hawaiian Gardens	Carson Street/Violeta Ave: Intersection Improvements. 3RD EB Through Lane and 3RD WB Through Lane
		5003	Bell	Chanslor Ave Street: Improvement at Northerly Florence Frontage Road
		3120	Whittier	Colima Road/Mar Vista Street : Add a Southbound Right-Turn Lane
		3121	Whittier	Colima Road/Whittier Blvd: Add a Southbound Right-Turn Lane and Second Eastbound and Westbound Left-Turn Lanes; Provide a Dual Northbound Left Turn Lane (N/B Left From Colima Road Onto Whittier Blvd W/B).
		5022	Commerce	Commerce Park Planning Area: Redevelopment Area, will Need to Make Intersection improvements as the Park is Redeveloped.
		3077	Long Beach	Del Amo Blvd/Atlantic Ave: Intersection widening
		3045	Lakewood	Del Amo Blvd/Cherry Ave. Intersection widening
3076	Long Beach	Del Amo Blvd/Long Beach Blvd: Intersection widening		
3083	Long Beach	Del Amo Blvd/Santa Fe Ave: Intersection widening		

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial Intersection Improvement Program	3024	Downey	Downey Ave/Firestone Blvd: Intersection improvement.
		9058	Vernon	Downey Road: Addition of Left turn pockets from Bandini to Slauson
		3131	Commerce, East Los Angeles	Eastern Ave/Telegraph Road: Intersection improvement
		9008	Bell	Eastern/Bandini: Intersection Improvement. Upgrade signals and striping
		3156	Huntington Park	Florence Ave/Alameda Street: Intersection improvements - New L or R Turn Lane(S)
		3018	Cudahy, Bell	Florence Ave/Atlantic Ave: Intersection widening
		4059	Bell	Florence Ave/Crafton Ave: Intersection Improvement. Video Detection
		3162	Downey	Florence Ave/Studebaker: Intersection widening to Add 1 Lane to NB Left, 1 Lane to EB Left, 1 Lane to WB Left; Same Improvements Recommended Regardless of I-5 Alternative
		9010	Bell Gardens	Garfield Ave/Eastern Ave: Intersection Modification. Reconfigure the intersection of Eastern/Garfield to improve circulation and safety.
		3115	South Gate	Garfield Ave/Firestone Blvd: Intersection Improvements. Construct Dual Left Turn Lanes on all Approaches. Eastbound to Northbound Left-Turn Movement may be Triple Left-Turn Lanes
		3003	Bell Gardens	Garfield Ave/Gage Ave: Intersection widening
		3118	South Gate	Garfield Ave/Miller Way: Improve Intersection to allow all Movements. Add Northeast-Bound Left Turn Lane and Right-Turn Lane on Miller Way. Add Northbound Left-Turn Lane on Garfield Ave. Signalize Intersection.
		3116	South Gate	Garfield Ave/Southern Ave: Intersection Improvements. Construct Dual Left Turn-Lanes on the Northbound and Eastbound Approaches
		3010	Commerce	Garfield Ave/Telegraph Road: Intersection improvement
		3012	Commerce	Garfield Ave/Washington Blvd: Multi-Modal Intersection. Provide Dedicated Right Turn Lane, Correct Substandard Traffic Lanes, Provide Improved Transit Facilities, and Improved Pedestrian Connections
		3100	LA County	Goodrich Blvd/Atlantic Blvd/Telegraph Road/Ferguson Drive: Intersection improvement
		3096	Lynwood	Imperial Hwy/Atlantic Ave: Intersection widening
		3112	South Gate	Imperial Hwy/Garfield Ave: Intersection widening Construct Dual Left-Turn Lanes on all Approaches
		3095	Lynwood	Imperial Hwy/Long Beach Blvd: Intersection widening
		3046	La Mirada	La Mirada Blvd/Imperial Hwy.: Intersection improvement. Addition of Right Turn Lane on Southbound La Mirada Blvd to Westbound Imperial Highway, and on Northbound La Mirada Blvd to Eastbound Imperial Highway
3047	La Mirada	La Mirada Blvd/Leffingwell Road: Intersection improvement.		
3048	La Mirada	La Mirada Blvd/Rosecrans Ave: Intersection improvement.		



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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial Intersection Improvement Program	3136	Bellflower, Paramount	Lakewood Blvd/Alondra Blvd: Intersection improvement
		3002	Bellflower	Lakewood Blvd/Artesia Blvd: Construct SB Right Turn Lane and 2ND EB Left Turn Lane.
		3026	Downey	Lakewood Blvd/Firestone Blvd: Intersection improvement.
		3027	Downey	Lakewood Blvd/Florence Ave: Intersection improvement.
		3029	Downey	Lakewood Blvd/Gallatin Road: Intersection improvement. Separate Northbound Right-Turn Lane and Add a Second Eastbound Left-Turn Lane; TIA Suggests Alternative Configuration for Intersection
		3030	Downey	Lakewood Blvd/Imperial Hwy: Intersection improvement.
		3031	Downey	Lakewood Blvd/Rosecrans Ave: Intersection improvement.
		3032	Downey	Lakewood Blvd/Stewart & Gray Road: Intersection improvement. Separate Eastbound Right-Turn Lane
		3019	Downey	Lakewood Blvd/Telegraph Road: Intersection Improvement
		3122	Whittier	Laurel Ave/Lambert Road : Add Northbound and Southbound Left-Turn Lanes
		3059	Long Beach	Long Beach Blvd/Anaheim Street: Intersection improvement. Modify Signal and Install Striping
		3111	South Gate	Long Beach Blvd/Firestone Blvd: Intersection Improvement. Restripe for Exclusive EB and WB Right Turn Lane, Construct Dual Left-Turn Lanes on all Approaches (May be a part of RTP project #LAF3124.)
		3060	Long Beach	Magnolia Ave/Ocean Blvd: Intersection improvement. Install EB and WB Left Turn Protected Phasing, Install SB Right Turn Overlap Phasing
		3123	Whittier	Norwalk Blvd/Beverly Blvd. Provide Dual Eastbound Left Turn Lane to Mitigate PM Peak Hour Traffic From Rio Hondo College
		3141	Santa Fe Springs	Norwalk Blvd/Washington Blvd: Intersection improvement
		3124	Whittier	Norwalk Blvd/Whittier Blvd: Add a Second Southbound Through (Norwalk) and a Third Eastbound and Westbound Through (Whittier); Provide an Exclusive Westbound Right Turn Lane to Mitigate Traffic Effects of Rio Hondo College Master Plan
		3033	Downey	Old River School Road/Florence Ave: Intersection improvement.
		3034	Downey	Old River School Road/Imperial Hwy: Intersection improvement.
		3009	Commerce	Pacific Blvd/Gage Ave: Intersection widening
		3080	Long Beach	Pacific Coast Hwy/Atlantic Ave: Intersection widening
3071	Long Beach	Pacific Coast Hwy/Long Beach Blvd: Intersection widening		
3070	Long Beach	Pacific Coast Hwy/Pacific Ave: Intersection widening		
3125	Whittier	Painter Ave/Whittier Blvd: Add Third Eastbound and Westbound Through Lane for Whittier Blvd		

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial Intersection Improvement Program	3132	Whittier, LA County (South Whittier)	Painter Rd/Mulberry Ave: Intersection improvement
		3020	Downey	Paramount Blvd/Florence Ave: Intersection improvement (May be a part of RTP project #LAE2293.)
		3042	Downey	Paramount Blvd/Gallatin Road: Intersection improvement
		3036	Downey	Paramount Blvd/Imperial Hwy: Intersection improvement. Intersection improvement (May be a part of RTP project #LAE2293.)
		3037	Downey	Paramount Blvd/Stewart & Gray Road: Intersection improvement. (May be a part of RTP project #LAE2293.)
		3038	Downey, Caltrans	Paramount Blvd/Telegraph Road: Intersection improvement (May be a part of RTP project #LAE2293.) Reconstruct 710 interchanges at I-5, SR 91 and I-105 as part of the I-710 corridor program proposing 4 truck lanes (ports-rail yards), 10 general lanes (Port-SR-60)
		3127	Los Angeles County	Peck Road/Workman Mill Road: Restripe the Exclusive Southbound Right Turn Lane into a Shared Through Lane
		TBD	Metro	Pioneer Blvd Crossing Improvements. 3 quad gates to improve speed and safety. Grade separation for HSR development. BNSF
		3106	Santa Fe Springs	Pioneer Blvd/Florence Ave: Intersection improvement
		3139	Norwalk	Pioneer Blvd/Imperial Hwy: Intersection improvement
		5002	Artesia	Pioneer Blvd: SB Intersection/Street Improvements. Mitigate Extreme Traffic Congestion on Saturdays. From SR-91 ramps to Artesia Blvd
		3062	Long Beach	Redondo Ave/Anaheim Street: Intersection improvement. Widen Southbound Redondo Ave to Provide for Right-Turn Lane
		3016	Compton	Rosecrans Ave/Atlantic Ave: Intersection widening
		3103	Paramount	Rosecrans Ave/Garfield Ave: Intersection widening
		3015	Compton	Rosecrans Ave/Long Beach Blvd: Intersection widening
		3104	Paramount	Rosecrans Ave/Paramount Blvd: Intersection widening
		3014	Compton	Rosecrans Ave/Santa Fe Ave: Intersection widening
		3146	Pico Rivera	Rosemead Blvd/Beverly Blvd: Intersection improvement. Part of I-605 Corridor Hot Spot Interchanges - Measure R Hwy Program. FTIP #LA0G945 Project #MR315.05, Metro Agreement No. 14-1490
		3149	Pico Rivera	Rosemead Blvd/Slauson Ave: Intersection improvement. Part of I-605 Corridor Hot Spot Interchanges - Measure R Hwy Program. FTIP #LA0G944 Project #MR315.19, Metro Agreement No. 14-1493
		3150	Pico Rivera	Rosemead Blvd/Washington Blvd: Intersection improvement. Part of I-605 Corridor Hot Spot Interchanges - Measure R Hwy Program. FTIP #LA0G943 Project #MR315.21, Metro Agreement No. 14-1492

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial Intersection Improvement Program	3147	Pico Rivera	Rosemead Blvd/Whittier Blvd: Intersection improvement. Part of I-605 Corridor Hot Spot Interchanges - Measure R Hwy Program. FTIP #LA0G942 Project #MR315.09, Metro Agreement No. 14-1491
		3079	Long Beach	Santa Fe Ave/223rd Street: Intersection widening
		3158	Huntington Park	Santa Fe Ave/Gage Street: Intersection improvements - New L or R Turn Lane(S)
		3049	La Mirada	Santa Gertrude Ave/Imperial Hwy: Intersection improvement. Addition of Right Turn Lane on Northbound Santa Gertrudes Ave to Eastbound Imperial Highway, and on Southbound Santa Gertrudes Ave to Westbound Imperial Highway
		3159	Huntington Park	Slauson Ave/Alameda Street: Intersection improvements - New L or R Turn Lane(S)
		3097	Maywood	Slauson Ave/Atlantic Blvd: Intersection widening
		3007	Commerce	Slauson Ave/Eastern Ave: Intersection widening
		3008	Commerce	Slauson Ave/Garfield Ave: Intersection widening
		3160	Vernon	Slauson Ave/Santa Fe Ave: Intersection improvements - New L or R Turn Lane(S)
		3161	Huntington Park	Slauson Ave/Soto Street: Intersection improvements - New L or R Turn Lane(S)
		9045	South Gate	South Gate HSIP Cycle 2. (A) Santa Fe Ave at Firestone Blvd - Add eastbound and westbound left-turn phasing, (B) Long Beach Blvd at Firestone Blvd - Add northbound and southbound left-turn phasing, (C) California Ave at Firestone Blvd - Add eastbound and westbound left-turn phasing and (D) Otis Street at Firestone Blvd - Add eastbound and westbound left-turn phasing
		9046	South Gate	South Gate HSIP Cycle 5. (A) State Street at Firestone Blvd - Add protected left-turn phasing for all approaches and (B) California Ave at Tweedy Blvd - Add protected left-turn phasing for all approaches
		9047	South Gate	South Gate SRTS Cycle 10. (A) San Miguel/Firestone - Add Traffic Signal, (B) Otis/Firestone - Add Northbound and Southbound Protected Left-Turn Phasing, (C) Otis Midblock Crossing - Modify Flashing Beacon, and (D) Southern Midblock Crossing - Modify Flashing Beacon
		3006	Cerritos	South Street/Carmenita Road: Intersection Improvement. 3RD SB Through Lane, 3RD EB Through Lane, and Additional WB Through Lane
		3094	South Gate, Lynwood	State Street/Tweedy Blvd: Intersection Improvement. Add Left-Turn Lane on all Approaches and Add Protected Left-Turn Phasing on all Approaches
		3142	Norwalk, Cerritos	Studebaker Rd/Alondra Blvd: Intersection improvement
		3148	Norwalk	Studebaker Road/Rosecrans Ave: Intersection improvement
		3090	Commerce, East Los Angeles	Telegraph Road/Atlantic (New Connector West and East Int): Intersection improvement
3093	Montebello, Pico Rivera, Commerce	Telegraph Road/Slauson Ave: Intersection improvement		
3011	Commerce	Telegraph Road/Washington Blvd: Intersection improvement		

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial Intersection Improvement Program	3052	La Mirada	Valley View Ave/Alondra Blvd: Intersection improvements in Advance of I-5 Freeway Improvements. Project Includes the Addition of Right Turn Lane From Northbound Valley View Ave to Eastbound Alondra Blvd.
		3051	La Mirada	Valley View Ave/Imperial Hwy: Intersection improvement. Addition of Right Turn on Northbound Valley View Ave to Eastbound Imperial Highway
		3053	La Mirada	Valley View Ave/Rosecrans Ave: Intersection improvement. Additional Right Turn Lane on Northbound Valley View Ave to Eastbound Rosecrans Ave
		3129	Whittier	Whittier, Pickering, Washington and Santa Fe Springs: Add a Northbound Through Lane on Santa Fe Springs Lane, a Southbound Right Turn only on Pickering Ave, (Resultant Lane Configuration on Northbound Approach - One Left Lane, One Combined Left-Through Lane, on Right-Only Lane; Resultant Lane Configuration on Southbound Approach - One Combined Left-Through, One Through Lane, One Right-Turn Lane)
		3074	Long Beach	Willow Street/Atlantic Ave: Intersection widening
		3075	Long Beach	Willow Street/Cherry Ave: Intersection widening
		3073	Long Beach	Willow Street/Long Beach Blvd: Intersection widening
		3081	Long Beach	Willow Street/Santa Fe Ave: Intersection widening
		3039	Downey	Woodruff Ave/Imperial Hwy: Intersection improvement.
		3040	Downey	Woodruff Ave/Stewart & Gray Road: Intersection improvement.
	3128	Los Angeles County	Workman Mill Road/Rose Hills Drive: Provide a Third Northbound Through Lane to Provide Additional Capacity for Northbound Through During PM Peak Hour	
	Arterial TSM/ITS	4008	LA County, South Gate, Lynwood, Compton	Alameda Street (24 signals). Traffic Signal Synchronization, Regional Traffic Signal System. From Nadeau to Auto Dr
		4015	LA County, Monterey Park, Commerce, Vernon, Maywood, Bell, Cudahy, South Gate, Lynwood, Compton, Long Beach, Alhambra	Atlantic and Artesia Blvd Bus Signal Priority. Atlantic Blvd From Garfield Ave to Artesia Blvd and Artesia Blvd From Atlantic Blvd to Acacia Ave
		9075	LA County, Commerce, Bell, Vernon, Maywood, Cudahy, South Gate, Lynwood, Compton	Atlantic Ave (46 Signals). From Everington St to Alondra Blvd

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial TSM/ITS	9206	LA County	Avalon Blvd TSSP: 126th St to Sepulveda Bl; Traffic Signal Synchronization (35 intersections)
		8028	Bell Gardens	Bell Gardens Signage Program. Bell Gardens Capital Improvement Project that will Promote the City Through New Signage.
		4012	LA County, Montebello, Pico Rivera, Whittier	Beverly Blvd (34 signals). Traffic Signal Synchronization, Regional Traffic Signal System. From Pomona Blvd to Pickering Ave
		9101	LA County	Broadway (7 signals). From 124th St to 157th St
		4048	Hawaiian Gardens	Carson Street: Traffic Signal Synchronization
		9089	LA County, Downey, Bellflower, Lakewood	Clark Ave (21 signals). From Lakewood Blvd to Del Amo Blvd
		9097	LA County	Compton Ave (13 signals). From Slauson Ave to 92nd St
		9098	LA County	Compton Ave (5 signals). From Imperial Hwy to El Segundo Blvd
		9207	LA County	Del Amo Bl: Avalon Bl (EAST) to Susana Road signal synchronization (9 intersections)
		9076	LA County, Carson, Long Beach, Lakewood, Cerritos	Del Amo Blvd (33 signals). From Cherry Blvd to Bloomfield Ave
		4038	Long Beach	Douglas Park Adaptive Traffic Control System (ATCS.) ITS Implementation
		9090	LA County, Lakewood, Long Beach, Bellflower, Paramount, Downey	Downey Ave (23 signals). From Firestone Blvd to Del Amo Blvd
		9087	LA County, Compton	El Segundo Blvd (13 signals). From Alameda St to Broadway
		9077	LA County, South Gate, Downey, Norwalk,	Firestone Blvd (42 signals). From Alameda St to Rosecrans Ave
		4007	LA County, Huntington Park, Bell, Bell Gardens, Downey, Santa Fe Springs, Whittier	Florence Ave/Mills Ave (62 signals). Traffic Signal Synchronization, Regional Traffic Signal System. From Central Ave to Whittier Blvd
		4049	Paramount	Frontage Road: Improve Signal Timing
		9216	LA County	Garfield Ave - Pine St to Olympic Blvd

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial TSM/ITS	9070	LA County, South Gate, Downey, Lynwood, Norwalk, Commerce, Paramount, Pico Rivera	Gateway Cities Fiber Optic Communications and CCTV Cameras Phase I Firestone Blvd From Ryerson Ave to Alameda Street; Imperial Highway From Amery to Alameda Street; Otis Street From Firestone Blvd to Santa Ana Street; Bullis Road From Imperial Highway to MLK JR. Blvd; CCTV Cameras at Various Location.
		9072	LA County, La Mirada, Compton, Paramount	Gateway Cities Fiber Optic Communications and CCTV Cameras Phase II Imperial Highway From Valley View Street to La Mirada Blvd; La Mirada Blvd From Imperial Highway to Foster Road; Alameda Street From Compton Blvd to Butler Ave; Compton Blvd From Alameda Street to Willowbrook Ave; Willowbrook Ave From Compton Ave to Palm Street; Paramount Blvd From Imperial Highway to Jackson Street; Jackson Street From Paramount Blvd to Colorado Ave.
		9071	LA County, Vernon, South Gate, Bell Gardens, Pico Rivera	Gateway Cities Fiber Optic Communications and CCTV Cameras Phase II Randolph Street From Alameda Street to Santa Fe Ave; Santa Fe Ave From Randolph Street to Vernon Ave; Garfield From Firestone Blvd to Florence Place; Rosemead Blvd From Telegraph Road to Washington Blvd, Washington Blvd From Rosemead Blvd to Passons Blvd; Passons Blvd From Washington Blvd to Homebrook Street
		9073	LA County, Gateway Cities	Gateway Cities Traffic Signal Operations
		9086	LA County, La Mirada, Santa Fe Springs, Norwalk, Downey, South Gate, Lynwood,	Imperial Blvd (61 signals). From Mona Blvd to 1st Ave
		9102	LA County, Gateway Cities	Information Exchange Network Phase IV. Intelligent Transportation Systems
		4047	La Mirada	La Mirada Blvd: Traffic Signal Synchronization on La Mirada Blvd From Beach Blvd to Whittier Blvd
		4024	Lakewood	Lakewood Citywide Traffic Signal Improvement
		4013	LA County, Whittier	Lambert Road (17 signals). Traffic Signal Synchronization, Regional Traffic Signal System. From Washington Blvd to Grayline Ave
		4011	LA County	Leffingwell Road (14 signals). Traffic Signal Synchronization, Regional Traffic Signal System. From Imperial Hwy to Valley Home Ave
4033	Lynwood	Long Beach Blvd: New Landscaped Median Islands, Traffic Signal Improvements at Sanborn Ave, Striping. From Tweedy Blvd to Magnolia Ave		

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial TSM/ITS	4025	Long Beach	Long Beach Downtown Area Intersection/Roadway Improvement. Traffic Control System Improvements Including: Adaptive Traffic Signal Control, CCTV Surveillance, Transit Signal Priority, Upgraded Traffic Signal Equipment
		4026	Long Beach	Long Beach Intelligent Transportation System
		9100	LA County	Main Street (5 signals). From El Segundo Blvd to Redondo Beach Blvd
		9079	LA County, Montebello	Montebello Blvd/Greenwood Ave (22 signals). From Paramount Blvd to Union St
		9096	LA County	Nadeau Street (7 signals). From Santa Fe Ave to Hooper Ave
		9088	LA County, Long Beach, Hawaiian Gardens, Lakewood, Cerritos, Artesia, Norwalk	Norwalk Blvd (20 signals). From Rosecrans Ave to Wardlow Rd
		9069	LA County, Whittier, Santa Fe Springs, Norwalk, Cerritos, Artesia, Lakewood, Hawaiian Gardens	Norwalk Blvd/San Antonio Blvd/Pioneer Blvd (49 Signals), Traffic Signal Synchronization, Regional Traffic Signal System. From Beverly Blvd to Carson St
		4035	LA County, Norwalk	Norwalk Citywide Traffic Signal Upgrade
		9095	LA County, Long Beach	Pacific Coast Highway (29 signals). From Santa Fe Ave to Studebaker Rd
		9080	LA County, Lakewood, Long Beach, Paramount, South Gate, Downey, Pico Rivera	Paramount Blvd (51 signals). From Beverly Blvd to Carson St
		5031	Downey	Paramount Blvd: From Gardendale St. To Telegraph Road, ITS Improvements and Minor Widening at Critical Intersections (May be a part of RTP project #LAE2293.)
		4022	Downey	Paramount Blvd: Phase 2, Street Improvement. Traffic Signal Fiber Optic Communication System. From Lubec St to Glendale St
		9093	LA County, Norwalk, Santa Fe Springs	Pioneer Blvd (13 signals). From Telegraph Rd to Rosecrans Ave

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Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial TSM/ITS	9085	LA County, Compton, Paramount, Bellflower, LA City	Redondo Beach Blvd/Compton Blvd/Somerset Blvd (59 signals). From Freeman Ave to Woodruff Ave
		9081	LA County, Compton, Paramount, Downey, Bellflower, Norwalk, Santa Fe Springs, La Mirada	Rosecrans Ave (65 signals). From Broadway to Mercado Ave
		9099	LA County	San Pedro Street (6 signals). From El Segundo Blvd to 157th St
		9092	LA County, Norwalk, Santa Fe Springs, Whittier	Santa Fe Springs/Bloomfield Road (13 signals). From Washington Blvd/Whittier Blvd to Firestone Blvd
		9091	LA County, Whittier, La Mirada	Santa Gertrudes Ave (14 signals). From Whittier Blvd to La Mirada Blvd
		4017	Commerce Downey	SE LA County Traffic Signal Synchronization. Implement Real-Time Traffic Signal Synchronization, Provide Additional Lane Capacity Through Minor Roadway Widening and Peak Hour Parking Restrictions. I-710/Atlantic Blvd, I-5/Telegraph, Lakewood/Rosemead Blvd, I-105/Firestone
		4009	Commerce, LA County	Slauson Ave/Mulberry Drive (56 signals). Traffic Signal Synchronization, Regional Traffic Signal System. From Eastern Ave to Garfield Ave
		4041	South Gate	South Gate Advanced traffic signal control system. Improve Traffic Signal Coordination and Timing
		4005	North Long Beach, Lakewood, Cerritos, LA County	South Street (13 Signals). Traffic Signal Synchronization, Regional Traffic Signal System. From Atlantic Ave to Studebaker Rd
		9082	LA County, Commerce, Montebello, Piico Rivera, Downey, Santa Fe Springs, La Mirada	Telegraph Road (46 signals). From Eastern Ave to Springview Dr
		9044	South Gate	UPRR Upgrades on Atlantic Ave and Firestone Blvd. Railroad Preemption Improvements at UPRR railroad crossings near Atlantic Ave @ Salt Lake Ave/Patata Street and Firestone Blvd @ Mason Street/Firestone Place



### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Arterial TSM/ITS	9083	LA County, La Mirada, Santa Fe Springs	Valley View Ave (7 signals). From Leffingwell Rd to Firestone Blvd South
		4006	Commerce, Montebello, Pico Rivera, LA County, Santa Fe Springs, Whittier	Washington Blvd (29 signals). Traffic Signal Synchronization, Regional Traffic Signal System. From Atlantic Blvd to Whittier Blvd
		9250	LA County	Westside Cities Traffic Signal Improvements - Operational Upgrades
		9084	LA County, Pico Rivera, Montebello, Commerce,	Whittier Blvd (38 signals). From Indiana St to Paramount Blvd
		4010	Downey, Bellflower, Lakewood, Long Beach, LA County	Woodruff Ave (26 signals). Traffic Signal Synchronization, Regional Traffic Signal System. From Firestone Ave to Willow St
	Bridge and Grade Separation Program	8025	Missing	ACE/Gateway Cities-Construct Grade Separation. at Passons Blvd in Pico Rivera (& Modify Profile of Serapis AV,)(Part of Alameda Corr East Proj.)SAFETEA-LU HPP # 1666 (TCRP #54.3)
		5120	Vernon	26th Street: Construct the 26th Street Bridge
		TBD	Metro	Alondra Boulevard Grade Separation (HSR). Grade separation for HSR development. BNSF
		5121	Vernon	Atlantic Blvd: Widen 6-Lane Atlantic Blvd Bridge over the LA River 5/8 Mile in Slauson to Add Right Turn Lane (Bridge # 53C0252)
		5076	Pico Rivera, Montebello	Beverly Blvd: Widen Bridge over Rio Hondo River From Two Lanes to Three Lanes in each Direction
		5075	Pico Rivera	Beverly Blvd: Widen Bridge over San Gabriel River From Two Lanes to Three Lanes in each Direction
		5052	Lakewood, Long Beach	Carson Blvd: Widen Bridge for Additional Lane for East and Westbound over San Gabriel River
		5015	Cerritos, Lakewood, La Palma Cypress	Del Amo Blvd: Bridge at Coyote Creek. Widening
		5074	Pico Rivera	Durfee Road: Grade Separation on Durfee Road (underpass) (Project Part of Alameda Corridor East Construction Authority)
		5067	Norwalk / Downey	Firestone Blvd: Bridge will be Reconstructed over San Gabriel River to Improve Existing Conditions
		5102	South Gate	Firestone Blvd: Widen Firestone Blvd Bridge over the Rio Hondo Channel and Minor Street Widening Between the Bridge and Garfield Ave

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Bridge and Grade Separation Program	5028	South Gate	Firestone Blvd: Widen on the South Side and Add a Lane in the EB Direction, Retrofit Bridge over LA River for Compliance
		5103	South Gate	Firestone Blvd: Bridge Widening over Alameda Corridor
		5101	South Gate	Firestone Blvd: Bridge Widening over LA River
		5032	Downey	Florence Ave: Widen over San Gabriel River (From River to Orr and Day)
		9003	Bell	Florence Bridge replacement from I-710 to River Dr
		9002	Bell	Gage Bridge replacement from I-710 to River Dr
		5109	South Gate	Garfield Ave: Widen Bridge over Rio Hondo River From Two Lanes to Three Lanes in each Direction, with Raised Median
		TBD	Metro	Lakeland Avenue Grade Separation. New grade separation. BNSF
		5008	Cerritos	Marquardt Ave: Bridge over Coyote Creek. Widening and Improvements
		TBD	Metro	Norwalk Blvd/ Los Nietos Rd Grade Separation. New grade separation. BNSF
		3107	Long Beach	Orange Ave/Hill Street Intersection Reconstruction and Bridge Removal: Study to Evaluate Grant Funding Options for Removing Existing Bridge and Reconstructing Intersection
		TBD	Metro	Pioneer Boulevard Grade Separation (HSR). Grade separation. BNSF
		5070	Paramount	Rosecrans Blvd: Replace Existing E/W Bridges over LA River to Add Shoulders, Sidewalks and Medians. From Rosecrans Blvd to LA River
		5092	Santa Fe Springs	Rosecrans Ave/Marquardt Ave: Grade Separate @ Metrolink Line (May be a part of RTP project #LA0F063.) LA-FULLERTON Triple Track & Grade SEP (Rosecrans) (IN Santa Fe Springs, LA on the BNSF Line. Construct Triple Track & Grade Separation at Rosecrans and Marquardt Ave. (PPNO 2002A) & Eliminate Hazards at Railroad Grade Crossing.
		5069	Santa Fe Springs, Bellflower	Rosecrans Ave: Widen Bridge over San Gabriel River
		5082	Pico Rivera, Santa Fe Springs	Slauson Ave: Widen Bridge over Rio Hondo River From Two Lanes to Three Lanes in each Direction
		5081	Pico Rivera, Montebello	Slauson Ave: Widen Bridge over San Gabriel River From Two Lanes to Three Lanes in each Direction
		9001	Bell	Slauson Bridge Replacement from I-710 to River Dr
		5013	Cerritos	South Street: Bridge Over Coyote Creek. Widening the South Street Bridge in the Cities of Cerritos and La Palma
		5012	Cerritos, Lakewood	South Street: Bridge Over San Gabriel River. Widening the South Street Bridge in the Cities of Cerritos and Lakewood
5117	South Gate	Southern Ave: Roadway Extension - Widen and Extend Southern Ave From Atlantic Ave to Garfield Ave. Southern Ave Extension will be Grade Separated over the LA River and the I-710 Freeway		

## Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	Bridge and Grade Separation Program	5084	Pico Rivera, Downey, Montebello, and Commerce	Telegraph Road: Widen Bridge over Rio Hondo River From Two Lanes to Three Lanes in each Direction
		5083	Pico Rivera, Downey and Santa Fe Springs	Telegraph Road: Widen Bridge over San Gabriel River From Two Lanes to Three Lanes in each Direction FTIP ProjectID LA0G1105 - Project Received Funding Under the HBP Funds
		5080	Pico Rivera, and Montebello	Washington Blvd: Widen Bridge over Rio Hondo River From Two Lanes to Three Lanes in each Direction FTIP Project ID LA0G1106 - Project Received Funding Under the HBP Funds
		5079	Pico Rivera	Washington Blvd: Widen Bridge over San Gabriel River From Two Lanes to Three Lanes in each Direction
		5078	Pico Rivera, Montebello	Whittier Blvd: Widen Bridge over Rio Hondo River From Two Lanes to Three Lanes in each Direction
		5077	Pico Rivera, Whittier	Whittier Blvd: Widen Bridge over San Gabriel River From Two Lanes to Three Lanes in each Direction
	Parking Restrictions Program	5016	Commerce	Atlantic/Washington Planning Area: Improve Flow, Possibly by Restricting Parking During Peak Periods, in Order to Alleviate Congestion in the Atlantic/Washington Planning Area
		5023	Commerce	Eastern Ave: Parking Restrictions During Peak Periods to Increase Capacity by One Lane in each Direction from Cherry Ave to Atlantic Blvd
		5119	South Gate	Long Beach Blvd. Parking Restrictions During Peak Periods to Increase Capacity by One Lane in each Direction. From San Antonio Dr to Firestone Blvd
		5061	Lynwood	Long Beach Blvd: Removal of Parking on the East Side from I-105 to Imperial Hwy
		5068	Norwalk, Paramount, Santa Fe Springs	Rosecrans Ave: Implement Peak Period Parking Restrictions and widen on Rosecrans between Orange Ave and Paramount Blvd, Studebaker and Fallon Ave, and Bloomfield Ave and Marquard Ave
	State of Good Repair	8030	Compton	Compton Arterial Reconstruction and Improvement Program (Non-Capacity).
		9007	Bell	Florence Ave: Phase II. Grind and overlay Florence from Atlantic to West City border
		9006	Bell	Gage/Walker: Intersection Improvements. Grind and overlay from Wilcox to River Dr and install concrete int @ Walker
		8087	Commerce	Garfield Ave/Slauson Ave Intersection (Garfield Ave at Flottila Ave) - Project Involves Pavement Reconstruction in Concrete, New Curb and Gutter, Drainage, Traffic Signal, Bus Shelters, and Striping of the Intersection.

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Arterial	State of Good Repair	9203	GCCOG	Gateway Cities Regional Roadway Rehab Projects – Phase 1, 2, 3 etc. To rehab regionally significant roadways to prevent further deterioration, and from needing full reconstruction, which is more expensive, and disrupts vehicular traffic, transit and commerce as well as deteriorates air quality.
		8045	Lynwood	Long Beach Blvd: Reconstruct Long Beach Blvd with Medians and Improved Drainage Phase II From Imperial Hwy to Tweedy Blvd. Phase III Limits are Magnolia Ave. to Imperial Hwy.
		5009	Cerritos	Marquardt Ave : Reconstruction in Conjunction with Project# 14096. From Artesia Blvd to Alondra Blvd
		9248	LA County	Westside Cities Pavement Preservation - Rehabilitation, Resurfacing, Reconstruction
		9249	LA County	Westside Cities Sidewalk, Curb, Parkway Preservation - Repair and Reconstruction
		8046	Whittier	Whittier Blvd : Reconstruct and Improve Parkway Drainage From Philadelphia Street to Five Points (Washington Blvd) in Whittier
Transit	Eco Rapid Transit	6052	Metro	Eco Rapid Transit (was Orangeline Project). On West Santa Ana Branch Right of Way from Union Station to Cerritos
	Metro Gold Line Eastside Transit Corridor Phase 2 (Washington Blvd)	6032	Norwalk, Santa Fe Springs, Whittier	Gold Line Eastside Extension From Atlantic to Norwalk/Whittier
	Green Line Extension to Norwalk Metrolink Station Upgrade Commerce Station I-605 to Santa Fe Springs	6030	Norwalk, Santa Fe Springs	Green Line Extension to Norwalk Metrolink Station Upgrade Commerce Station. I-605 (Santa Fe) to Santa Fe Springs
	Harbor Subdivision/ Green Line Southern Extension from Torrance to Long Beach Blue Line	9217	Metro, SBCCOG	Harbor Subdivision/Green Line Southern Extension from Torrance to Long Beach Blue Line
	Atlantic Blvd Corridor LRT or BRT	6029	Multiple	Atlantic Blvd Corridor LRT or BRT. Light Rail Transit or Bus Rapid Transit between Long Beach and Pasadena

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Transit	Long Beach Transit (LBT) BRT Program	9062	Long Beach Transit	LBT BRT Bus Purchases. Purchase BRT "lite" and BRT buses, and make related street improvements and stop enhancements. Assume 15 buses @ \$1 million/bus; street and stop improvements unknown
		9059	Long Beach Transit	LBT BRT Program. Multiple BRT Corridors throughout LBT service area. Cost unknown.
	Amtrak LOSSAN Speed and Service Improvements	8139	Amtrak	Amtrak LOSSAN Speed and Service Improvements
	LA-Fullerton Triple Track and Grade Separation	6011	La Mirada, Norwalk	LA-Fullerton Track Upgrade Main Track Construction. Construct 5.6 Miles of New Third Main Track. From Norwalk to La Mirada. Grade Separation at Rosecrans and Marquardt Ave. (PPNO 2002A) & Eliminate Hazards at Railroad Grade Crossing.
	Metrolink Commuter Rail Program Enhancements	8061	Metro	Metrolink Capital Subsidy (Does not Include Metrolink Fares and Other Non-Metro Funds)
		6051	Metro	Metrolink Commuter Rail Program Enhancements
	Whittier Blvd Subway - Union Station to Garfield Ave	6047	Whittier, Pico Rivera	Whittier Blvd Subway. Construction of Whittier Blvd Subway between Union Station and Garfield Ave
	Bus/Rail Service Program	8062	ACCESS Services INC.	Access Services Inc. Annual Expenditures Including Service Provider Contracts & Capital Expenses for Complementary ADA Paratransit in Los Angeles County
		6003	Artesia	Artesia Bus Acquisition. Acquire 4 Alternative Fuel Buses to be Used for New Fixed Route Service, Earmark ID # E2008-BusP-0694
		8063	Metro	Bus & Rail Capital, Includes Facility Upgrade, Equip, Spare Parts, Non-Rev Vehicles, Maintenance Support, ITS, Etc. Includes \$5.3 MIL for LACRD Improvements.(Includes RTP ID 1TR08D08 & 1TR08D07A & 1TR08D07B)
		8008	Commerce	Bus Stop Improvements Construction of Passenger Shelters and Information Kiosks
		6006	Cerritos	Cerritos Buses. Expansion Buses for 2 Fixed Route Services for the Cerritos, Earmark ID# E2009-BusP-075
		6008	Huntington Park	Florence-Firestone/Walnut Park Transit Vehicles. Procurement of Three CNG-Fueled, Low-Floor Buses for a New Fixed-Route Shuttle Service
		6009	Huntington Park	Huntington Park Downtown Shopper Shuttle. Trolley Service on Pacific Blvd Linking Downtown W/Northwest Area Specific Plan
		9004	Bell	La Campana: Expanding route for the shuttle service
6010		La Mirada	La Mirada Expansion Buses. Purchase Expansion Buses with Alternate Fuel (Hybrid/Electric)	
8004	La Mirada	La Mirada Purchase of Bike Racks for Transit Vehicles.		

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description	
Transit	Bus/Rail Service Program	9067	Long Beach Transit	LBT Bus Safety Improvements. Make technological improvements on buses for safety, e.g. real time viewing inside buses, in-vehicle repair diagnostics, automated programming of functions such as heads signs and automatic voice annunciators, enhanced customer messaging. Cost unknown.	
		9063	Long Beach Transit	LBT Bus Speed Improvements. Implement bus speed improvements such as traffic signal prioritization (TSP), bus lanes on streets, bulb-outs, stop enhancements that speed boarding, and new TAP-incorporated fareboxes.	
		9068	Long Beach Transit	LBT Bus Stop Amenities. Provide amenities at bus stops such as lighting, seating, trashcans, and enhanced signage to meet customer needs. Estimate 200 stops @ \$80,000 each.	
		9061	Long Beach Transit	LBT Expansion Buses. Purchase of 60 service expansion buses by 2035 @ \$750,000 per bus.	
		9065	Long Beach Transit	LBT Facility Modernization for Alternative Fuel Vehicles. Improve or expand LBT facilities to accommodate alternative-fuel vehicles and bus expansion. Cost unknown.	
		9060	Long Beach Transit	LBT Replacement Buses. Purchase replacement buses (approximately 20 @ ~\$750,000 per bus). Preservation/State-of-good-repair only.	
		6018	Long Beach	Long Beach Eastern Transit Corridor Connection. Metro Blue Line Operational Improvements	
		8066	Metro	Metro RAPID Bus Stations-Phase II: Includes Communications & Equipment - Equipment and Bus Shelters Only.	
		4045	Montebello, LA County	Montebello Customer Information System. Project to Include Automatic Vehicle Location and Real-Time Passenger Information Systems	
		8019	La Mirada	Replacement Buses - 25FT Vans/Buses - Purchase Qty of 6 Gasoline-22 Passenger Capacity each. C/O From 2006/2007. Carryover From 2008 FTIP Amendment 08-53. (Details regarding the replacement buses differ in RTP and FTIP.)	
		6041	South Gate	South Gate Regional Transit Service Improvements. Addition of Transit Service on Otis Street, California Ave, State Street, and Santa Ana Street	
		6044	South Gate	South Gate Transit Service. Add and Expand Small Buses Serving Destinations Around the City	
		6045	South Gate	South Gate UPRR rail service. Plan and Develop Rail Service in UPRR North-South Corridor. From North City Limit to South City Limit.	
		6026	Long Beach	Transit Management and Information Center Improvements	
		8020	Montebello	Transit Coach Tire (LEASE) (Ongoing). Carryover From Prior Fiscal Year	
	8138	Missing	Transit Service Improvements. Miscellaneous Improvements in the Service Area.		
		Park and Ride/ Transit Station Program	6004	Bell Gardens	Bell Gardens Transit Center. Transit Center with Bus Stop Amenities, Supported by a 284 Space Park and Ride
			6005	Bellflower	Bellflower Regional Transit Center. Design & Construct a Regional Transit Center with 6 Bays & 134 Parking Spaces Exclusively for Transit Users.

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Transit	Park and Ride/ Transit Station Program	6013	Long Beach	Blue Line/Willow Station Park & Ride. Expand Parking Structure at the Metro Blue Line Willow Station
		9015	Commerce	Commerce Park & Ride Facility. Plan, Design and Construct P&R facility for multi-modal access, storm water treatment and City TOD benefit, including parking structure.
		6042	South Gate, Downey	Downey Train Station. Coordinate with Downey on a Potential Train Station
		6039	South Gate	Firestone/Atlantic Transit Station. Create a Firestone/Atlantic Transit Station
		8002	Norwalk	Green Line/Lakewood Station: Transit Center and Park-and-Ride Lot for Connection to the Metro Green Line at Lakewood Station. a Total of 230 Parking Spaces are Proposed.
		6028	Long Beach	Hawaiian Gardens Transit Center. Transit Center Near the Intersection of Norwalk Blvd/Carson St. Serviced by Long Beach Transit, Metro, and OCTA Routes. Possibly Serviced by Norwalk Transit, Cerritos on Wheels, and Regional Express Routes.
		6040	South Gate	Imperial/Atlantic Transit Station. Create an Imperial/Atlantic Transit Station
		9064	Long Beach Transit	LBT Interagency Transit Hub. Construct interagency transit hub in LBT's eastern service area. Feasibility and site study beginning in 2014.
		6043	South Gate	South Gate Park and Ride Lots. Provide Park and Ride Lots at Rail Stations and Transit Centers and Near Freeway Interchanges
		8010	Montebello	Taylor Ranch Park and Ride Transit Center. Construction of Transit Center at the Community REC Facility Located at the Taylor Ranch Park and Ride Facility, 737 North Montebello Blvd, Montebello.
Active Transportation	Active Transportation Program	3056	Long Beach	Alamitos Ave/Ocean to 7th. Reconfigure Street to Provide Additional Lane & Bike Lanes
		8036	Long Beach	Daisy Corridor and 6TH Street Bike Blvd. Construct Two (2) Bicycle Boulevards Along Two Corridors Known as the Daisy Corridor and 6TH Street in Long Beach. The Proposed Bike Blvd Along the Daisy Corridor is a North-South Route Between Broadway. Bike Lane (Class II) is Less than 1 mile.
		8027	Long Beach	LA River Bike Path Access Improvements. Bicycle System Gap Closures & Improved LA River Bike Path. Project will Construct Priority Class I & III Bicycle System Gap Closures in Long Beach and Improve Connection to LA River.
		8041	Long Beach	Long Beach Blvd. Pedestrian Improvement Project. Project Provides Pedestrian-Oriented Improvements to Long Beach Blvd Including Pedestrian Lighting, Street Trees, and Crosswalk Treatments.
		8049	Long Beach	San Gabriel River Bike Path Gap Closure at Willow Street. Creation of Off-Street Bicycle Path to Achieve Bicycle Route Gap Closure on Willow Street From the San Gabriel River Bike Path West to Studebaker Road

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Active Transportation	Active Transportation Program	8055	Long Beach	Willow Street Pedestrian Improvement Project. This Project Provides Pedestrian-Oriented Improvements to Willow St Including Medians, Pedestrian Lighting, Landscaping, Signage and Crosswalk Treatments. From Vernon to I-5
		9005	Bell	ADA Ramp Replacement. ADA upgrades at various locations
		9109	LA County	Alondra Blvd. Class I Bike Path fro Figueroa St to Avalon Blvd
		9110	LA County	Avalon Blvd. Class 2 Bike Lanes from 121st St to Alondra Blvd
		9000	Bell	Bell Bicycle Master Plan. Develop and implement a bicycle transportation element in the GP
		9111	LA County	Broadway. Class 2 Bike Lanes from 121st St to Alondra Blvd
		9112	LA County	Central Ave Class 2 Bike Lanes from 121st St to 127th St
		9114	LA County	Compton Ave. Class 2 Bike Lanes from Harris Ave to LA River Bike Path
		9105	LA County	Compton Creek Bikeway. Class I Bike Path from Del Amo Blvd to LA River
		9104	LA County	Compton Creek Bikeway. Class I Bike Path from Greenleaf Blvd to SR-91
		8033	Avalon	Country Club Drive Bikeway Improvement Project. Construction of a 4-Foot Wide Class II Bike Lane in Both Directions Along a One Mile Section of Country Club Drive.
		9106	LA County	Coyote Creek North Fork Bike Path. Class I Bike Path from Leffingwell Rd to Foster Rd
		9116	LA County	El Segundo Blvd. Class 2 Bike Lanes from Figueroa St to Avalon Blvd
		9117	LA County	Florence Ave. Class 2 Bike Lanes from Central Ave to Mountain View
		9009	Bell, LA County	Florence Ave: Enhance pedestrian improvements on Florence Ave from east city border to west city border
		9201	GCCOG	Gateway Cities Active Transportation Program. Design and Implementation includes Phase 1, 2, 3 etc, for the design and construction of the 55+ Active Transportation projects identified in the GCCOG STP.
		9025	Huntington Park	Huntington Park Active Transport Plan. Implementation Phase. Design and construct.
		9227	Caltrans, Norwalk	I-105/Studebaker Rd: Improve pedestrian crossings at ramps
		9228	Caltrans, Norwalk	I-105/Studebaker Rd: Pedestrian improvements at marked crosswalk
		9119	LA County	Imperial Hwy. Class 2 Bike Lanes from Central Ave to Wilmington Ave
		9118	LA County	Imperial Hwy. Class 2 Bike Lanes from Shoemaker Ave to Leffingwell Rd
		9120	LA County	La Mirada Blvd. Class 2 Bike Lanes from Fernview Ln to Leffingwell Rd
		9121	LA County	Lambert Road. Class 2 Bike Lanes from Mills Ave to Scott Ave
		9066	Long Beach Transit	LBT Bike-sharing & Walkability Program. Facilitate use of alternative travel by including multi-modal facilities at major bus stops such as bike-sharing and walkability of surrounding areas
9122	LA County	Leffingwell Road. Class 2 Bike Lanes from Imperial Hwy to Scott Ave		
9028	Huntington Park, Bell, Vernon, Maywood	Leonis Blvd Active Transportation Corridor. Plan, design, and implementation. Ties to LA River and Pacific		
9107	LA County	Los Angeles River Bike Path. Class I Bike Path from Downey Rd to Atlantic Blvd		



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Program	Subprogram	Project ID	Jurisdiction	Description
Active Transportation	Active Transportation Program	9140	Long Beach	Market Street Pedestrian and Streetscape Enhancements
		9108	LA County	Milan Creek. Class 1 Bike Path from Marquardt Ave to Telegraph Ave
		9123	LA County	Mills Ave. Class 2 Bike Lanes from Telegraph Rd to Lambert Rd
		9041	Montebello	Montebello Bicycle Masterplan. Complete a Study to Identify and Analyze Potential Bicycle Routes and Lanes Within Montebello That Will Provide Regional and Local Benefit
		9124	LA County	Olympic Blvd. Class 2 Bike Lanes from Indiana St to Concourse Ave
		9023	Huntington Park	Pacific Blvd Pedestrian Improvements. Project Implementation - Phase 2. Design and construct
		8013	Missing	Passenger and Pedestrian Improvements by LANI
		9042	Pico Rivera, LA County, Whittier	Pico Rivera Regional Bikeway Project. Install Bike lanes on Mines Ave, Rosemead Blvd, and Dunlap Crossing Rd. Construct a new bike bridge over the San Gabriel River to connect to Norwalk Blvd in the adjacent City of Whittier, and construct Bus Stop turnout on Paramount Blvd.
		5046	Huntington Park, Maywood, Bell	Randolph Street: Improvements Design and Construct - Class 1 Bike from Wilmington to Fishburn Ave
		9125	LA County	Redondo Beach Blvd. Class 2 Bike Lanes from South Figueroa St to Avalon Blvd
		9126	LA County	Rosecrans Ave. Class 2 Bike Lanes from Butler Ave to 560' e/o Gibson Ave
		9127	LA County	Rosecrans Ave. Class 2 Bike Lanes from Figueroa St to Central Ave
		9128	LA County	Santa Fe Ave. Class 2 Bike Lanes from Artesia Blvd to 0.1 mi s/o Reyes Ave
		9129	LA County	Slauson Avenue. Class 2 Bike Lanes from Central Ave to Alameda St
		9048	South Gate	South Gate SRTS Cycle 8. (A) Southern Ave - Add pedestrian and bike paths, (B) Add pedestrian countdown signals, (C) Add speed feedback signs, and (D) Add Speed Humps
		9049	South Gate	South Gate SRTS Cycle 9. (A) Alexander Ave - Add bike lanes, (B) Southern Ave at Southern Place - Add Raised Medians and (C) Southern Ave at Pinehurst Ave - Add Raised Medians
		8050	Artesia	South Street Pedestrian, Bikeway and Transit Improvement. Improve Pedestrian Environment and Transit Stop Locations with Landscaped Medians, Transit Shelters, Benches, Sidewalk Enhancements and Lighting. Close Existing Bike Lane Gap.
		9022	Huntington Park	State Street Active Transportation. Class 2 Bikeway Project Plan, Design, Construct
		9130	LA County	Telegraph Road. Class 2 Bike Lanes from Carmenita Rd to Huchins Dr
		9131	LA County	Valley View Ave. Class 2 Bike Lanes from Telegraph Rd to Imperial Hwy
9133	LA County	Various Major Hwys, Class 3 Bike Routes		
9251	LA County	Westside Cities Local Bikeways - Class 2 and 3 Bikeways on Local Streets		
9252	LA County	Westside Cities Pedestrian Improvements - Construct New Sidewalks		

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Program	Subprogram	Project ID	Jurisdiction	Description
Active Transportation	Active Transportation Program	8053	Whittier	Whittier Greenway Trailhead Park. Extension of Whittier Greenway Trail From Mills Ave to 300 Feet East of Mills Ave in Conjunction with Construction of New Trailhead Park and 20 Space Parking Lot for Bicycle Commuters.
		9138	LA County	Willowbrook Area Bikeway Improvements (10S-049): Imperial Hwy from Wilmington Ave to 120th St East; Willowbrook Ave from 119th St to Wilmington Ave; Wilmington Ave from 120th St to Compton Ave
		9139	LA County	Willowbrook Area Pedestrian Improvements (10S-049) from Willowbrook Ave to 119th St East
		9132	LA County	Workman Mill Road. Class 2 Bike Lanes from San Jose Creek Bicycle Path to Strong Ave
Goods Movement	Goods Movement, Logistics & Technology Program	9247	SGVCOG	Alameda Corridor East - Phase II - Three unfunded grade separations (one in Montebello)
		5020	Commerce	Bandini Blvd: Improve Bandini Blvd to Major Arterial Standards to Accommodate Existing and Future Truck Traffic
		5021	Commerce	Camfield/Flotilla/Smithway: Improve Camfield/ Flotilla/ Smithway as Required to Accommodate Truck Traffic and Upgrade to Secondary Arterial Standards
		9205	GCCOG	Gateway Cities Technology Deployment Program – to oversee the deployment and implementation of the various goods movement technologies Goods Movement/Logistics & Technology, and would include ITS, Truck Enforcement, and CV Pilot Deployment Program.
		8129	Missing	Goods Movement - Bottleneck Relief Strategy
		9043	South Gate	Rayo Ave/Firestone Blvd: Intersection Improvements. Widen curb returns for truck movements
		5026	Commerce	Sheila Street: Widen Sheila Street to Secondary Arterial Street Standards as Needed to Accommodate Existing and Anticipated Truck Traffic, Provide Access to Sheila Street From Pacific Way West of Arrowmill Ave, Grade Separation at Eastern
		9011	Commerce	Sheila Truck Corridor. Plan, Design and Construct Truck Corridor from City Limit to I-5
Other	Complete Streets Program	9056	South Gate	Ardmore Ave/Independence Ave: Complete Streets. Enhance pedestrian and transit facilities, add bike facilities. From north city limits (Santa Ana Ave) to Otis St
		9016	Commerce, Maywood, Montebello, SFS, HP, Vernon, Whittier, Uninc. City	Atlantic Ave: Corridor Master Plan, Design and Construction with Consideration for Complete/Green Street
		9052	South Gate	California Ave: Complete Streets. Enhance pedestrian and transit facilities, add bike facilities. From north city limits (Santa Ana Ave) to south city limits (Abbott Rd)

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Other	Complete Streets Program	9055	South Gate, Paramount	Century Blvd: Complete Streets. Enhance pedestrian and transit facilities, add bike facilities. From Garfield Ave to Industrial Ave, ECO Rapid Station
		9026	Huntington Park, ???	Florence Ave: Complete Street Master Plan, design, and construction
		9054	South Gate, Downey	Gardendale Ave: Complete Streets. Enhance pedestrian and transit facilities, add bike facilities. From Garfield Ave to east city limits (Paramount Blvd)
		9202	GCCOG	Gateway Cities Complete Streets Program. Planning, Design and Implementation includes Phase 1, 2, 3 etc, for the planning, design and construction of Complete Streets projects identified in the GCCOG STP.
		9040	Montebello	Montebello Blvd: Construction of a Multimodal Complete Streets Improvement Project Including Widening the Existing Street for FOUR Travel Lanes and Pedestrian and Bicycle Infrastructure and Raised Medians. From Whittier Blvd to Paramount Blvd
		9013	Commerce	Olympic Blvd: Construct Complete Street through City Limits to fill gap on either side (LA County)
		9053	South Gate	Otis St: Complete Streets. Enhance pedestrian and transit facilities, add bike facilities. From north city limits (Santa Ana Ave) to south city limits (Abbott Rd)
		9012	Commerce, Maywood, Montebello, SFS, HP, Vernon, Whittier, Uninc. City	Slauson Ave: Corridor Master Plan, Design and Construction with Consideration for Complete Street
		9027	Huntington Park	Slauson Ave: Complete Street Master Plan, design, and construction
		9051	South Gate	State Street: Complete Streets. Enhance pedestrian and transit facilities, add bike facilities. From north city limits (Santa Ana Ave) to south city limits (Tweedy Blvd)
		9050	South Gate	Tweedy Blvd: Complete Streets. Enhance pedestrian and transit facilities, add bike facilities. From west city limits (Alameda St) to LA River
		9245	LA County	Westside Cities Aesthetics-Beautification - Landscaping, Hardscaping, Urban Forestry
		TBD	GCCOG	Gateway Cities Air Quality Improvement Projects
	9204	GCCOG	Gateway Cities Regional Transportation Storm Water Treatment Projects – Phase 1, 2, 3 etc. To construct BMP's on regionally significant arterials that are not currently funded for reconstruction.	
	TBD	GCCOG	Zero Emission Truck Development	
	TBD	GCCOG	Zero Emission Truck Infrastructure Projects	
	8130	Metro, GCCOG	Zero-Emission Truck Technology Demonstration and Initial Deployment. Near-term.	
	Environmental Mitigation Program			

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Other	First Last Mile Program	9137	LA County	Eastside Lightrail Bike Interface Projects: Olympic from Woods Ave to 1st, Olympic Blvd from Ford Blvd to 3rd Street, Olympic Blvd from Arizona Ave to Mednik Ave; Arizona Ave from Mednik Ave to Floral Dr; Whittier Blvd from Rowan Ave to Floral Dr; Rowan Ave from 4th Street to Indiana St.
		9135	LA County	Firestone Blue Line Station. First Mile/Last Mile Active Transportation Access Improvements
		9134	LA County	Florence Blue Line Station. First Mile/Last Mile Active Transportation Access Improvements
		9014	Commerce	Metrolink Enhancement & 26th Street Station. Plan, Design and Construct First/Last Mile Connection, Safety Enhancements, Connection to Atlantic BRT, & Potential Park & Ride
		9136	LA County	Slauson Blue Line Station. First Mile/Last Mile Active Transportation Access Improvements
	ITS Program	9074	LA County, Gateway Cities	Gateway Cities Wireless Communications
		8085	Metro	Southern California 511 One-Call/One-Click Transportation Resource Center Expansion
	Metro Job Access & Reverse Commuter Program	8064	Metro	Job Access & Reverse Commuter Program Administration, Operations and Capital for UZA 2 and UZA 123 (Toll Credit will be Used as the Local Match to Section 5316 Federal Funds) Toll Credit in FY11/12 in CON for \$21,592.
	Metro LA County Rideshare Services Program	8065	Metro	LA County Rideshare Services; Provide Commute Info, Employer Assistance and Incentive Programs Through Core & Employer Rideshare Services & MTA Incentive Programs. PPNO 9003
	Norwalk Municipal Services Yard	6033	Norwalk, Santa Fe Springs	Norwalk Municipal Services Yard. This project would be for the construction and land acquisition. This was the old transportation center parking expansion and bikeway improvements project which was revised in order to potentially develop the site for a City of Norwalk municipal services yard.
TDM Program	9024	Huntington Park	Eco-Rapid TOD. Eco-Rapid TOD in HP and Park & Ride. Planning effort.	
Regional Facility	Active Transportation Program	9146	Port of Long Beach	Existing Shoemaker Bridge 9th/10th Street Connector. a Class II Bikeway along 6th Street, 7th Street, Shoemaker Bridge and 9th Street intended to provide bicyclists with a safe and established facility along 9th Street and connect the Port of Long Beach to the City of Long Beach with the goal of minimizing interruptions to motorists traveling along 9th Street and Shoemaker Bridge. Proposed improvements will help to reduce critical gaps and link the City of Long Beach across the 710 Fwy, LA River, and the Port operations. This connection serves as the California Coastal Trail alignment which is supported by the California Coast Walk.

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
Regional Facility	Active Transportation Program	9143	Port of Long Beach	Mark Bixby Memorial Bicycle Pedestrian Path. a single, continuous, non-motorized Class I bikeway (bike path) on the new Gerald Desmond Bridge connecting from SR-47 to Pico Ave. The Class I bikeway will be a minimum of 12 feet wide, and signed and striped for two-way movement. Located along the south side of the Main Span Bridge and Approach Bridges with three scenic overlooks. This facility will be delivered as part of the Design-Build Contract for the Gerald Desmond Bridge Replacement project.
		9147	Port of Long Beach	North Harbor Coastal Connection. Long-term plans to establish a bicycle and pedestrian facility in accordance with the future Shoemaker Bridge Replacement and Pier B Rail yard facilities. This project will connect the City of Long Beach with Anaheim Street through the North Harbor. From 6th/7th St to 9th Street/Anaheim
		9145	Port of Long Beach	Ocean Blvd Connector. Class I Bicycle and Pedestrian Facility serving as a gap closure connecting the Gerald Desmond Bridge/Mark Bixby Bike Path, LA River and City of Long Beach bike network. From Mark Bixby Memorial Bicycle Pedestrian Path to Golden Shore
		8042	Port of Long Beach & Long Beach	Pier J Bike Path. Long Beach South Waterfront Bike Path Gap Closure. The South Waterfront Bike Path Connection Proposes a Main Gap-Closure to Long Beach's Primary Bikeway Network. This Class I Path Includes a Mid-Block Crossing and Wayfinding Signs. The Proposed South Waterfront Bike Path Starts at the North End of the Queensway Bridge at the Existing Terminus of the Class I Path. The Proposed Alignment Follows the North Side of Queensway Drive Within the City Right-of-Way as a Class I Bike Path to the Existing Class I PAT
		9144	Port of Long Beach	South Waterfront Bicycle Pedestrian Path. Class I/II bicycle and pedestrian facility connecting the Queensway Bridge to Pier J. The preferred alternative encompasses approximately 8,700 feet of Class I and Class II bikeways and shared-use paths, and approximately 800 feet of sidewalk. The enhancement of bike and pedestrian accessibility will provide a benefit to workers, hotel patrons, restaurant customers, and park users and provide a completed active transportation link from these activity centers into Downtown Long Beach.
	Arterial Intersection Improvement Program	3138	Long Beach	Bellflower Blvd/Spring St: Intersection improvement
		3137	Long Beach	Lakewood Blvd/Spring St: Intersection improvement
		3065	Long Beach, Port of Long Beach	Pico Ave/9th Street: Intersection Configuration may change due to Other Ongoing Projects
		3082	Long Beach	Wardlow Road/Cherry Ave: Intersection widening
	Arterial TSM/ITS	9078	LA County, Long Beach, Lakewood, Pico Rivera	Lakewood Blvd/Rosemead Blvd (59 signals). From San Gabriel Blvd to Stearns St
		9094	LA County, Signal Hill, Long Beach	Willow St (23 signals). From I-710 to I-605

### Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description			
Regional Facility	Bridge and Grade Separation Program	8023	Long Beach, Port of Long Beach	I-710/Shoemaker Bridge - Downtown Off Ramps. The Project Replaces the Existing Shoemaker Bridge and Makes Bicycle, Pedestrian, and Streetscape Improvements on Major Thoroughfares. PM 6.00			
		5060	Port of LA, Port of Long Beach	Reeves Crossing: Grade Separation for Reeves Crossing at Terminal Island to Eliminate Traffic Conflicts and allow Efficient Movement of Trains on Terminal Island			
	Complete Streets Program	8001	Long Beach, Port of Long Beach	Anaheim Street: Operational & Complete Street Improvements			
	Goods Movement, Logistics & Technology Program		8140	BNSF, UP, Port of Long Beach	BNSF/UP Mainline Capacity Improvements: Freight Rail Improvements		
			8078	Port of Long Beach, Port of LA	Cerritos Channel: New Rail Bridge		
			7018	Port of Long Beach	Control Point Mole Reconfiguration. Reconfiguration of Control Point (CP) Mole - the New Control Point at the Mole will Enable Increased Train Speeds and Reduced Train Delays Caused by Manual Switch Operations		
			7019	Port of Long Beach, Port of LA	High Speed Regional Transport Spur From POLA/POLB to Hobart Yard for Freight Movement. POLB/POLA to Hobart Yard		
			7017	UP	ICTF Expansion Project. Modernize Intermodal Facilities Etc. (There is a discrepancy in the project descriptions provided in the RTP and the FTIP).		
			7023	Port of Long Beach	Navy Mole Expansion. Build Three New Tracks Along the West Side of Pier T (POLB) and Relocating the Existing Utilities on Terminal Island		
			8079	Port of Long Beach, Port of LA	Other In-Port Mainline		
			7001	Port of Long Beach	Pier B St. Intermodal Railyard Expansion Project, Realignment and Widening of Pier B Street		
			7016	BNSF, Port of Long Beach	SCIG: Develop Near-Dock Intermodal Freight Facility		
			7002	Port of Long Beach	Terminal Island Wye. Provide for Double Tracking the South Leg of the Wye to Accommodate Simultaneous Train Switching Moves From Various Activities on Terminal Island		
			Highway Ramps and Interchanges Program		2034	Port of Long Beach, Caltrans	I-710/Pico: Reconfigure Interchange at I-710 and Pico Ave. PM 5.20
					8044	Long Beach, Port of Long Beach, Caltrans	I-710: Reconstruct I-710 Southern Terminus Off Ramp. Current Funding Applied only Towards the P/E & Preliminary Design Phase. Construction Funding to be Sought Later (E/P,PS/E Only). PM 4.96

## Gateway Cities Mobility Matrix – Preliminary Project List

Program	Subprogram	Project ID	Jurisdiction	Description
* Jurisdiction may refer to the lead project sponsor, the jurisdiction where the project exists, or the agency that proposed the addition of the project. Projects without specified jurisdictions were sourced from other planning documents (e.g., Metro Long Range Transportation Plan and others) where no lead or proposing agency was listed.				





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## **2c. Las Virgenes/Malibu**

- 1. Detailed Cost Estimate Ranges**
- 2. Summary of Cost Estimates and Categorizations**
- 3. Performance Evaluations and Project Descriptions**



## **Las Virgenes/Malibu**

### **1. Detailed Cost Estimate Ranges**

**Table 5-2. Rough Order-of-Magnitude Capital Cost by Subprogram (2015 thousands of dollars)**

Program	# of projects	Projects with Estimated Costs	Projects with Original Costs	Cost Estimates					
				Short-Term		Mid-Term		Long-Term	
				Low	High	Low	High	Low	High
<b>Arterial</b>									
Widening Program	7	4	3	\$61,000	\$91,000	\$58,000	\$69,000	\$0	\$0
State of Good Repair/Safety Program	5	5		\$23,000	\$27,000	\$1,800	\$2,700	\$1,800	\$2,700
TSM Program	7	5	2	\$20,000	\$30,000	\$1,600	\$2,300	\$70	\$100
<b>Highway</b>									
Arterial Interchange Program	1	1		\$0	\$0	\$16,000	\$24,000	\$0	\$0
Freeway Corridor Program	2	2		\$0	\$0	\$0	\$0	\$1,100,000	\$1,700,000
Soundwall Program	1	1		\$4,600	\$8,100	\$0	\$0	\$0	\$0
TSM Program	1		1	\$11,000	\$16,000	\$0	\$0	\$0	\$0
<b>Active Transportation</b>									
Bicycle/Pedestrian Program	8	8		\$10,000	\$29,000	\$8,500	\$23,000	\$0	\$0
Pedestrian Safety Program	7	5	2	\$47,000	\$71,000	\$38,000	\$58,000	\$0	\$0
Sustainability Program	2	2		\$3,800	\$15,000	\$3,800	\$15,000	\$0	\$0
TDM Program	1	1		\$370	\$530	\$370	\$530	\$370	\$530
Park-and-Ride Program	2	2		\$3,000	\$5,000	\$60,000	\$90,000	\$0	\$0
<b>Transit</b>									
Seasonal Transit Program	2	2		\$50	\$60	\$50	\$60	\$0	\$0
Bus Program	4	4		\$3,100	\$4,900	\$2,000	\$3,200	\$0	\$0
Transit Center Program	1	1		\$3,000	\$9,000	\$0	\$0	\$0	\$0
<b>Total</b>	<b>51</b>			<b>\$230,000</b>	<b>\$370,000</b>	<b>\$190,000</b>	<b>\$290,000</b>	<b>\$1,100,000</b>	<b>\$1,700,000</b>

## **Las Virgenes/Malibu**

### **2. Summary of Cost Estimates and Categorizations**

**Table 5-3. Rough Order-of-Magnitude Project Cost Estimates and Categorizations (2015 dollars)**

Type / Category	Arterial	Highway	Active Transport.	Transit	Total
<b>Short-Term (0-10 yrs)</b>	17 Projects \$140M - \$210M	2 Projects \$16M - \$24M	14 Projects \$64M - \$120M	6 Projects \$6M - \$14M	39 Projects \$230M - \$370M
<b>Mid-Term (11-20 yrs)</b>	4 Projects \$62M - \$77M	1 Project \$16M - \$24M	13 Projects \$110M - \$190M	3 Projects \$2M - \$3M	22 Projects \$190M - \$290M
<b>Long-Term (&gt;20 yrs)</b>	2 Projects \$3.8M - \$7.7M	2 Projects \$1.1B - \$1.6B	1 Project \$0.4M - \$0.5M	0 Projects \$0	5 Projects \$1.1B - \$1.7B
<b>Total</b>	19 Projects \$200M - \$300M	5 Projects \$1.1B - \$1.7B	20 Projects \$170M - \$310M	7 Projects \$8M - \$17M	51 Projects \$1.5B - \$2.3B



## **Las Virgenes/Malibu**

### **3. Performance Evaluations and Project Descriptions**

Metro Subregional Mobility Matrix  
Las Virgenes Malibu

Project Detail Matrix  
Draft Final to PDT

ID	Project Description	Agency	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair	Categorization Timeframe		
			<ul style="list-style-type: none"> <li>• Reduce regional traffic impacts</li> <li>• Increase active transportation mode share</li> <li>• Improve reliability</li> <li>• Increase system efficiency</li> </ul>	<ul style="list-style-type: none"> <li>• Improve transit safety/security</li> <li>• Improve bicycle and pedestrian safety</li> <li>• Improve roadway safety</li> </ul>	<ul style="list-style-type: none"> <li>• Minimize environmental impact</li> <li>• Improve Quality of Life</li> <li>• Reduce GHG emissions</li> </ul>	<ul style="list-style-type: none"> <li>• Reduce goods movement impact</li> <li>• Accommodate seasonal travel impact</li> <li>• Reduce peak hour trips</li> </ul>	<ul style="list-style-type: none"> <li>• Preserve Life of Facility or Equipment</li> <li>• Reduce Goods Movement Impact</li> <li>• Leverage state and federal funding</li> </ul>	<ul style="list-style-type: none"> <li>• Improve First/Last Mile Connections</li> <li>• Serve Transit Dependent Populations</li> <li>• Improve regional transit connections</li> </ul>	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs
<b>Arterials</b>											
<b>Widening Programs/Projects</b>											
A1	PCH Intersection Improvements	Malibu, Caltrans	●	◐	○	◐	○	◐	X		
A2	PCH lane width and shoulder widening	Malibu, Caltrans	◐	◐	○	◐	◐	◐	X		
A3	Agoura Hills: Widen Canwood St. 1400' ft west of Kanan Rd to Station 89	Agoura Hills	●	○	○	○	○	◐	X		
A4	Agoura Hills General Plan arterial improvements	Agoura Hills	●	○	○	○	○	◐	X		
A5	Calabasas General Plan arterial improvements	Calabasas	●	◐	○	○	○	◐	X	X	
A6	Malibu: Malibu Canyon Rd widening	Malibu	●	○	○	◐	○	◐		X	
A7	PCH and Paradise Cove vehicle underpassing expansion	Malibu, Caltrans	◐	◐	○	◐	◐	◐	X		
<b>State of Good Repair Programs/Projects</b>											
A8	State of Good Repair/Safety Projects for bridges, sidewalks, curbs, parkways, guardrails, shoulders throughout region	Subregional	◐	◐	◐	◐	○	●	X	X	X
A9	Las Virgenes Road Shoulder Safety Improvement: From Lost Hills to Mulholland Highway, guard rails replacements and passing lane	Calabasas	◐	◐	◐	◐	○	●	X		
A10	Mulholland Highway Phase IV: Declaration Ave to Old Topanga Canyon Rd; road safety and intersection improvements	Calabasas	◐	◐	◐	◐	○	●	X		
A11	Mulholland Highway Shoulder Safety Improvement: Old Topanga Canyon Rd to City Limits; passing lanes and sight distance improvements at intersections	Calabasas	◐	◐	◐	◐	○	●	X		
A12	Reconstruct Malibu Hills Rd	Calabasas	◐	◐	◐	◐	○	●	X		
<b>TSM Programs</b>											
A13	Traffic Signal Improvements: real-time signal control/incident management	Subregional	◐	◐	○	◐	○	○	X		
A14	Citywide signal synchronization and control center in Agoura Hills and Westlake Village	Agoura Hills, Westlake Village	◐	○	○	○	○	○	X		

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			<ul style="list-style-type: none"> <li>•Reduce regional traffic impacts</li> <li>•Increase active transportation mode share</li> <li>•Improve reliability</li> <li>•Increase system efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Improve transit safety/security</li> <li>•Improve bicycle and pedestrian safety</li> <li>•Improve roadway safety</li> </ul>	<ul style="list-style-type: none"> <li>•Minimize environmental impact</li> <li>•Improve Quality of Life</li> <li>•Reduce GHG emissions</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce goods movement impact</li> <li>•Accommodate seasonal travel impact</li> <li>•Reduce peak hour trips</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Leverage state and federal funding</li> </ul>	<ul style="list-style-type: none"> <li>•Improve First/Last Mile Connections</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve regional transit connections</li> </ul>	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs	
<b>Arterials cont.</b>												
<b>TSM Programs cont.</b>												
A15	Signal Synchronization and Adaptive timing upgrade on Calabasas Rd and Mulholland Highway	Calabasas	●	○	○	○	○	○		X		
A16	PCH median enhancements from Corral Canyon Rd to Winding Way	Malibu, Caltrans	●	●	○	○	○	○		X		
A17	Westlake Village business park area improvements	Westlake Village	●	○	○	●	○	○			X	X
A18	PCH: Install CCTV & Communications System from Temescal Canyon Rd to Malibu Rd (Malibu Seafood) (PM 38.11-49.72)	Malibu, LA County, Caltrans	●	●	○	○	○	○		X		
A19	Regional: Upgrades to traffic signal system to bring to current standards and operational needs on various routes such as SR-1, SR-23, US-101	Subregional	●	○	○	○	○	●		X		
<b>Highways</b>												
<b>Arterial Interchange Programs/Projects</b>												
H1	US-101: Interchange improvements at Kanan Rd, including SB on-ramps and bridge improvements	Agoura Hills, Caltrans	●	●	○	○	●	●			X	
<b>Freeway Corridor Projects</b>												
H2	US-101: Add 2 lanes to existing roadway in each direction between SR-27 and the Ventura County Line; project widens roadway from 4 to 6 lanes, while aiming to minimize ROW acquisition and local circulation impacts	Subregional	●	—	○	○	○	○				X
H3	US-101: Add one lane to existing roadway in each direction between SR-27 and the Ventura County line; project widens roadway from 4 to 5 lanes, which could generally be accommodated by restriping within the existing roadway cross-section	Subregional	●	—	○	○	○	○				X
<b>Soundwall Projects</b>												
H4	US-101: Soundwall on Canwood west of Kanan	Agoura Hills, Caltrans	○	○	●	○	○	○		X		
<b>TSM</b>												
H5	US-101: Upgrade Transportation Management System from SR-27 to Ventura County Line (PM 25.3-38.19)	Subregional	●	●	○	○	○	○		X		

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			<ul style="list-style-type: none"> <li>•Reduce regional traffic impacts</li> <li>•Increase active transportation mode share</li> <li>•Improve reliability</li> <li>•Increase system efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Improve transit safety/security</li> <li>•Improve bicycle and pedestrian safety</li> <li>•Improve roadway safety</li> </ul>	<ul style="list-style-type: none"> <li>•Minimize environmental impact</li> <li>•Improve Quality of Life</li> <li>•Reduce GHG emissions</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce goods movement impact</li> <li>•Accommodate seasonal travel impact</li> <li>•Reduce peak hour trips</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Leverage state and federal funding</li> </ul>	<ul style="list-style-type: none"> <li>•Improve First/Last Mile Connections</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve regional transit connections</li> </ul>	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs
<b>Active Transportation</b>											
<b>Bicycle/Pedestrian Programs/Projects</b>											
B1	Las Virgenes Malibu COG Bike Plan Projects	Subregional	●	●	●	●	●	○	X	X	
B2	Los Angeles County Bike Plan: Class 3 Bike Routes	Agoura Hills, Malibu, LA County	●	●	●	●	●	○		X	
B6	Agoura Hills: bicycle/pedestrian/ equestrian improvements along Agoura Rd east of Cornell	Agoura Hills	●	●	●	○	●	○	X		
B7	Calabasas Bicycle Master Plan	Calabasas	●	●	●	○	●	○	X		
B9	Bike routes on Encinal Canyon Rd and Latigo Canyon Rd	Malibu, LA County	●	●	●	●	●	○		X	
B11	PCH bicycle improvements: upgrade from Class 3 to Class 2	Malibu, Caltrans	●	●	●	●	●	○		X	
B13	PCH Safety Study: implement improvements included in study	Malibu, Caltrans	●	●	●	●	●	○	X	X	
B14	Westlake Village: Class 2 bike lanes in business park area (La Baya, La Tienda, Via Rocas, Via Collinas)	Westlake Village	●	●	●	●	●	○		X	
<b>Pedestrian Safety Programs</b>											
B3	Agoura Hills: US-101/Lewis Road pedestrian overpass improvements	Agoura Hills	○	●	●	○	●	○		X	
B4	Agoura Hills: sidewalk gap closure program	Agoura Hills	○	●	●	○	●	○	X	X	
B5	Agoura Hills: split multi-use trail on Driver Ave. near Palo Comado to separate modes	Agoura Hills	○	●	●	○	○	○	X		
B8	Hidden Hills: improvements to gateway area at Long Valley Rd at US-101	Hidden Hills	○	●	●	○	●	○	X		
B10	PCH pedestrian overpass installation	Malibu, Caltrans	●	●	●	●	●	○	X		
B12	PCH HAWK pedestrian crossing program (at 20356 PCH, 22523 PCH)	Malibu, Caltrans	●	●	●	●	●	○	X		
B15	Westlake Village: Install sidewalks along - Lindero Canyon Rd - Thousand Oaks Blvd - Lakeview Canyon Rd - La Tienda Rd - Business Park area	Westlake Village	●	●	●	○	●	○	X	X	

Metro Subregional Mobility Matrix  
Las Virgenes Malibu

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ID	Project Description	Agency	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair	Categorization Timeframe			
			<ul style="list-style-type: none"> <li>•Reduce regional traffic impacts</li> <li>•Increase active transportation mode share</li> <li>•Improve reliability</li> <li>•Increase system efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Improve transit safety/security</li> <li>•Improve bicycle and pedestrian safety</li> <li>•Improve roadway safety</li> </ul>	<ul style="list-style-type: none"> <li>•Minimize environmental impact</li> <li>•Improve Quality of Life</li> <li>•Reduce GHG emissions</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce goods movement impact</li> <li>•Accommodate seasonal travel impact</li> <li>•Reduce peak hour trips</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Leverage state and federal funding</li> </ul>	<ul style="list-style-type: none"> <li>•Improve First/Last Mile Connections</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve regional transit connections</li> </ul>	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs	
<b>Active Transportation cont.</b>												
<b>Sustainability Programs</b>												
B16	Electric Vehicle charging stations in Public Parking Structures (potentially including photovoltaic panels)	Subregional	○	○	●	○	○	○		X	X	
B17	Regional Green Streets program (runoff/stormwater improvements)	Subregional	○	◐	●	◐	○	◐		X	X	
<b>TDM Programs</b>												
B18	Regional: TDM programs to reduce trips	Subregional	◐	○	●	●	◐	○		X	X	X
<b>Park and Ride Projects/Programs</b>												
B19	Agoura Hills: construct park-and-ride lot at Reyes Adobe Rd and Canwood St	Agoura Hills	◐	○	◐	◐	◐	◐		X		
B20	Regional parking structures near key activity/transit centers in Malibu, Agoura Hills, and Westlake Village	Agoura Hills, Malibu, Westlake Village	◐	○	◐	◐	◐	○			X	
<b>Transit</b>												
<b>Seasonal Transit Program</b>												
T1	Enhancement of seasonal shuttle program from Las Virgenes area to Malibu	Agoura Hills, Malibu	●	○	◐	◐	●	○			X	
T4	Malibu: seasonal shuttle program to connect Malibu and Westside	Malibu	●	○	◐	◐	●	○		X		
<b>Bus Programs</b>												
T2	Calabasas transit fleet replacement	Calabasas	○	○	◐	○	○	○		X		
T3	Malibu: bus stop improvements (31 stops not included in current program)	Malibu, Caltrans	◐	●	◐	○	●	○		X		
T6	Improved year-round regional transit connection between Malibu and Santa Monica along PCH through shorter headways and other operational improvements	Malibu, Caltrans	●	○	●	○	●	○		X	X	
T7	Improved regional transit connection between Las Virgenes area, Thousand Oaks and SFV along US-101 corridor through shorter headways and other improvements	Subregional	●	○	◐	◐	●	○		X	X	
<b>Transit Center Projects</b>												
T5	Agoura Hills Transit Center (exact location TBD, likely Agoura Village area)	Agoura Hills	◐	◐	◐	○	●	○		X		









## **2d. North County**

- 1. Detailed Cost Estimate Ranges**
- 2. Summary of Cost Estimates and Categorizations**
- 3. Performance Evaluations**
- 4. Project Descriptions**



## **North County**

### **1. Detailed Cost Estimate Ranges**

**Table 5-2. North County Mobility Matrix Program Cost Estimate Ranges and Categorizations**

North County Mobility Matrix Projects & Programs	Total Projects	Projects with Estimated Costs	Projects with Original Costs	Short Term (0 to 10 Years)		Mid Term (11 to 20 Years)		Long Term (20 plus Years)	
				Low	High	Low	High	Low	High
<b>Active Transportation</b>	<b>123</b>	<b>123</b>	<b>120</b>						
Active Transportation Program	123	123	120	\$95,000,000	\$143,000,000	\$95,000,000	\$143,000,000	\$95,000,000	\$143,000,000
<b>Arterials Program</b>	<b>146</b>	<b>146</b>	<b>139</b>						
Arterial ITS Program	12	12	10	\$71,700,000	\$108,000,000	\$71,700,000	\$108,000,000	\$71,700,000	\$108,000,000
Arterial Capacity Enhancement Program	113	113	108	\$266,000,000	\$400,000,000	\$266,000,000	\$400,000,000	\$266,000,000	\$400,000,000
Grade Separation and Crossing Program	12	12	12	\$136,000,000	\$203,000,000	\$136,000,000	\$203,000,000	\$136,000,000	\$203,000,000
State of Good Repair Program	9	9	9	\$719,000,000	\$1,080,000,000	\$719,000,000	\$1,080,000,000	\$719,000,000	\$1,080,000,000
<b>Goods Movement Program</b>	<b>1</b>	<b>1</b>	<b>1</b>						
Regional Inland Port	1	1	1	\$0	\$0	\$0	\$0	\$32,000,000	\$48,000,000
<b>Highway Program</b>	<b>29</b>	<b>25</b>	<b>20</b>						
High Desert Corridor	3	3	2	\$1,987,000,000	\$2,980,000,000	\$1,987,000,000	\$2,980,000,000	\$1,987,000,000	\$2,980,000,000
I-5 Improvements: Pico Canyon to Kern County Line	3	3	3	\$0	\$0	\$1,120,000,000	\$1,680,000,000	\$1,120,000,000	\$1,680,000,000
SR 138 improvement: I-5 to SR 14	1	1	1	\$0	\$0	\$320,000,000	\$480,000,000	\$0	\$0
SR 14 Improvements: I-5 to Kern County Line	5	2	2	\$0	\$0	\$820,000,000	\$1,230,000,000	\$820,000,000	\$1,230,000,000
Highway Capacity Enhancement Program	5	5	5	\$195,000,000	\$292,000,000	\$195,000,000	\$292,000,000	\$195,000,000	\$292,000,000
Highway ITS Program	6	6	3	\$18,700,000	\$28,100,000	\$18,700,000	\$28,100,000	\$0	\$0
Highway Interchange and Ramp Program	5	5	4	\$132,000,000	\$197,000,000	\$132,000,000	\$197,000,000	\$0	\$0
Pearblossom Hwy State of Good Repair Project	1	0	0	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
<b>Multimodal Program</b>	<b>5</b>	<b>2</b>	<b>2</b>						
Lancaster Regional Hospital District Mobility Network	1	1	1	\$0	\$0	\$0	\$0	\$48,000,000	\$72,000,000
Neighborhood transit Centers program	1	1	1	\$0	\$0	\$1,000,000	\$1,500,000	\$0	\$0
Park-and-Ride/Station Access Program	3	0	0	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

North County Mobility Matrix Projects & Programs	Total Projects	Projects with Estimated Costs	Projects with Original Costs	Short Term (0 to 10 Years)		Mid Term (11 to 20 Years)		Long Term (20 plus Years)	
				Low	High	Low	High	Low	High
<b>Transit Program</b>	<b>52</b>	<b>52</b>	<b>45</b>						
AVTA Bus Rapid Transit Project: Palmdale Bl and 10 <sup>th</sup> St W	1	1	1	\$0	\$0	\$12,000,000	\$18,000,000	\$0	\$0
Bus Service Program	9	9	6	\$56,300,000	\$84,400,000	\$56,300,000	\$84,400,000	\$0	\$0
Metrolink Antelope Valley Line improvements**	41	41	41	\$427,000,000	\$640,000,000	\$1,059,000,000	\$1,588,000,000	\$878,000,000	\$1,317,000,000
Metrolink Extension to Kern County*	1	1	0	\$0	\$0	\$0	\$0	\$15,300,000	\$22,900,000
<b>Total</b>	<b>369</b>	<b>362</b>	<b>343</b>	<b>\$4,303,700,000</b>	<b>\$6,456,500,000</b>	<b>\$7,176,700,000</b>	<b>\$10,766,000,000</b>	<b>\$6,631,000,000</b>	<b>\$9,948,900,000</b>

Notes: Estimated costs in 2015 dollars.

\*The Metrolink Extension to Kern County project costs are based on the Los Angeles County share of the estimated annual operating costs of service to Rosamond, California.

\*\*The Metrolink Antelope Valley Line improvements include projects submitted by Metrolink as well as other projects in the study area identified in the Antelope Valley Line Strategic plan

These estimates underrepresent the operations and maintenance costs due to limited available data. Costs may also be underestimated where cost estimate ranges are still under development.

Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. Any subregional cost-sharing agreements will be determined through future planning efforts.

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**



## **North County**

### **2. Summary of Cost Estimates and Categorizations**

**Table ES-4. North County Mobility Matrix Summary of Rough Order of Magnitude Cost Estimates and Categorizations**

Type/ Category	Arterial	Goods Movement	Highway	Active Transportation	Transit	Multimodal	Total
Short-Term (0-10 years)	63 Projects \$1.18 B to \$1.78 B	N/A	20 Projects \$TBD	41 Projects \$95 M to \$143 M	36 Projects \$483 M to \$724 M	3 Projects TBD Cost	163 Projects \$ TBD
Mid-Term (11-20 years)	41 Projects/ TBD \$1.18 B to \$1.78 B	N/A	9 Projects \$TBD	41 Projects \$95 M to \$143 M	7 Projects \$1.13 B to \$1.69 B	1 Project \$1 M to \$1.5 M	99 Projects \$ TBD
Long-Term (>20 years)	41 Projects/ TBD \$1.18 B to \$1.78 B	1 Project \$32 M to \$48 M	8 Projects \$TBD	41 Projects \$95 M to \$143 M	11 Projects \$893 M to \$1.69 B	1 Project \$48 M to \$72 M	103 Projects \$ TBD
<b>Total</b>	146 Projects \$3.55 B to \$5.34 B	1 Project \$32 M to \$48 M	29 Projects \$TBD	123 Projects \$285 M to \$429 M	52 Projects 2.50 B to \$3.75 B	5 Projects \$49 M to \$74 M	356 Projects \$ TBD

Notes: Estimated costs in 2015 dollars.

Some highway and transit projects are counted in multiple timeframes, thus total project counts for those types will not match totals row.

Estimates underrepresent operations and maintenance costs due to limited project data availability. Costs also may be underestimated where cost estimate ranges are still under development.

Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. Any subregional cost-sharing agreements will be determined through future planning efforts.



## **North County**

### **3. Performance Evaluations**

**Table 4-2. Performance Evaluation – Summary by Subprogram**

		Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		*Improves mobility and multi-modal options for residents and visitors *Increases inter- and intra-regional connectivity *Improves commute travel times	*Improves multimodal system safety	*Reduces environmental impacts *Increases energy efficiency *Improves quality of life	*Increases job access options for employees *Promotes efficient goods movement *Promotes economic development with an emphasis on creating local jobs	*Provides improved access to the system for underserved users to reach critical destinations *Provides new transit access, complete streets or other alternative travel options	*Keeps system operating in state of good repair
<b>North County Mobility Matrix Projects &amp; Programs</b>	<b>#Projects</b>						
<b>Active Transportation</b>	<b>1</b>						
Active Transportation Program	123	●	●	●	○	●	○
<b>Arterials Program</b>	<b>146</b>						
ITS Program	12	●	○	○	○	○	○
Arterial Capacity Enhancement Program	113	●	○	-	○	○	○
Grade Separation and Crossing Program	12	●	●	○	○	○	○
State of Good Repair Program	9	○	○	○	○	○	●
<b>Goods Movement Program</b>	<b>1</b>						
Regional Inland Port	1	○	○	-	●	○	○
<b>Highway Program</b>	<b>29</b>						
High Desert Corridor	3	●	○	○	○	○	○
I-5 Improvements: Pico Canyon to Kern County Line	3	●	○	○	○	○	○
SR 138 improvement: I-5 to SR 14	1	●	○	○	○	○	○
SR 14 Improvements: I-5 to Kern County Line	5	●	○	○	○	○	○
Highway Capacity Enhancement Program	5	●	○	-	○	○	○

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

		Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
<b>North County Mobility Matrix Projects &amp; Programs</b>	#Projects	*Improves mobility and multi-modal options for residents and visitors *Increases inter- and intra-regional connectivity *Improves commute travel times	*Improves multimodal system safety	*Reduces environmental impacts *Increases energy efficiency *Improves quality of life	*Increases job access options for employees *Promotes efficient goods movement *Promotes economic development with an emphasis on creating local jobs	*Provides improved access to the system for underserved users to reach critical destinations *Provides new transit access, complete streets or other alternative travel options	*Keeps system operating in state of good repair
		<b>Highway Program (continued)</b>					
ITS Program	6	●	◐	◐	◐	○	○
Highway Interchange and Ramp Program	5	●	◐	○	◐	○	◐
Pearblossom Hwy State of Good Repair Project	1	◐	◐	◐	◐	○	●
<b>Multimodal Program</b>							
Lancaster Regional Hospital District Mobility Network	1	◐	◐	◐	◐	●	○
Neighborhood transit centers program	1	◐	◐	◐	◐	●	○
Park-and-Ride/Station Access Program	3	●	◐	◐	◐	◐	○
<b>Transit Program</b>							
AVTA Bus Rapid Transit Project: Palmdale Bl and 10 <sup>th</sup> St W	1	●	◐	●	◐	●	○
Bus Service Program	9	●	◐	●	◐	●	○
Metrolink Antelope Valley Line improvements	41	●	◐	●	◐	◐	◐
Metrolink Extension to Kern County	1	◐	◐	◐	◐	◐	○

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**



## **North County**

### **4. Project Descriptions**

**APPENDIX C PROJECT DETAIL MATRIX**
**Table C.1 North County Mobility Matrix – Preliminary Project List**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Active Transportation	Active Transportation Program	222	County of Los Angeles	Trails and Bikeways; Santa Clara River Bike Trail - Ventura County Line, along Henry Mayo Dr/SR 126 to The Old Road, 800' N/o Rye Cyn Rd (Newhall Ranch Regional River Trail)
		223	County of Los Angeles	Trails and Bikeways; Various streets in County incorporated area; Construct bikeways (Local)
		224	County of Los Angeles	Trails and Bikeways; Bouquet Cyn Road - Vasquez Cyn Rd to Elizabeth Lake Rd
		225	County of Los Angeles	Trails and Bikeways; Henry Mayo Dr - Commerce Center Dr to The Old Rd
		226	County of Los Angeles	Trails and Bikeways; Soledad Canyon Rd - Mammoth Lane to Youngs Canyon Road
		227	County of Los Angeles	Trails and Bikeways; 50th Street West - Ave M-2 to Ave N ; Install Bike Route
		228	County of Los Angeles	Trails and Bikeways; 70th Street West - Avenue F to Avenue J; Install Bike Route
		229	County of Los Angeles	Trails and Bikeways; 87th Street East - Avenue U to Pearblossom Hwy ; Construct Bike Lane
		230	County of Los Angeles	Trails and Bikeways; 90th Street East - Avenue M to Avenue Q; Install Bike Route
		231	County of Los Angeles	Trails and Bikeways; 90th Street East - Avenue Q to Palmdale Blvd; Construct Bike Lane
		232	County of Los Angeles	Trails and Bikeways; 90th Street West - Avenue G to Avenue G-8; Install Bike Route
		233	County of Los Angeles	Trails and Bikeways; 90th Street West - Avenue H-8 to Avenue K; Install Bike Route
		234	Palmdale	Trails and Bikeways; Bicycle connectivity and Gap Closure
		235	County of Los Angeles	Trails and Bikeways; Castaic Creek - Lake Hughes Road to Henry Mayo Drive
		236	County of Los Angeles	Trails and Bikeways; Elizabeth Lake Road - 10th Street West to Dianron Rd; Construct Bike Lane
		237	County of Los Angeles	Trails and Bikeways; Elizabeth Lake Road - Lake Hughes Road to 0.3 mi E/o Cherry Tree Ln; Install Bike Route
238	County of Los Angeles	Trails and Bikeways; Elizabeth Lake Road - Lake Hughes Road to Munz Ranch Road; Construct Bike Lane		
239	County of Los Angeles	Trails and Bikeways; Lancaster Road - 160th Street West to 134th Street West; Install Bike Route		

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Active Transportation (continued)	Active Transportation Program (continued)	240	County of Los Angeles	Trails and Bikeways; Palmdale Blvd - 110th Street East to 170th Street East; Install Bike Route
		241	County of Los Angeles	Trails and Bikeways; Palmdale Blvd - 60th Street East to 110th Street East; Construct Bike Lane
		242	County of Los Angeles	Trails and Bikeways; Sierra Hwy - Avenue G to Avenue A; Construct Bike Lane
		243	County of Los Angeles	Trails and Bikeways; Sierra Hwy - Avenue P-8 to Avenue Q; Construct Bike Lane
		244	County of Los Angeles	Trails and Bikeways; Sierra Hwy - Avenue S to Pearblossom Hwy; Construct Bike Lane
		245	County of Los Angeles	Trails and Bikeways; Sierra Hwy - Steele Ave to Pearblossom Hwy; Construct Bike Lane
		246	County of Los Angeles	Trails and Bikeways; Sierra Hwy - Vasquez Cyn Rd to Steele Ave
		247	County of Los Angeles	Trails and Bikeways; Soledad Canyon Rd - Youngs Canyon Road to Sierra Highway; Construct Bike Lane
		248	Lancaster	Trails and Bikeways; 40th Street West Bike Path, Ave J to Ave H
		249	Lancaster	Trails and Bikeways; Amargosa Creek Bike Path, Ave L to Ave I
		250	Lancaster	Trails and Bikeways; Avenue G Bike Path, 70th West to 50th West
		251	Lancaster	Trails and Bikeways; Avenue H Bike Path, 20th West to 35th West
		252	Lancaster	Trails and Bikeways; Avenue I, Lancaster Blvd, 35th Street West, 50th Street West Loop Multipurpose Path
		254	Lancaster	Trails and Bikeways; Avenue L Bike Path, Business Center Pkwy to 35th East
		255	Lancaster	Trails and Bikeways; California Aqueduct Bike Path, 90 West to 110th West
		256	Lancaster	Trails and Bikeways; Sierra Highway Bike Path, Ave H to Ave I
		257	Lancaster	Trails and Bikeways; Utility Corridor Bike Path along SCE utility corridor approximately 100th St W and 78th St W between Ave J and M
		258	County of Los Angeles	Trails and Bikeways; Santa Clara River Bike Trail - South Fork Trail bridge to Bark Park
		259	Palmdale	Trails and Bikeways; Citywide Bicycle Trail Construction
		260	Lancaster	Trails and Bikeways; 45th Street West, Ave J to Ave K
		261	Lancaster	Trails and Bikeways; 10th Street West On-street bikeway, Ave M to Ave H
		262	Lancaster	Trails and Bikeways; 12th Street West On-street bikeway, Ave K-8 to Ave J-4
		263	Lancaster	Trails and Bikeways; 15th Street East On-street bikeway, Ave K-8 to Ave I
		264	Lancaster	Trails and Bikeways; 15th Street West On-street bikeway, Ave H to Ave J-8
		265	Lancaster	Trails and Bikeways; 20th Street East On-street bikeway, Ave L to Ave I
		266	Lancaster	Trails and Bikeways; 20th Street West On-street bikeway, Ave L to Ave H
267	Lancaster	Trails and Bikeways; 25th Street East On-street bikeway, Ave I to Ave J		

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Active Transportation (continued)	Active Transportation Program (continued)	268	Lancaster	Trails and Bikeways; 25th Street West On-street bikeway, Ave L to Lancaster Blvd.
		269	Lancaster	Trails and Bikeways; 27th Street East On-street bikeway, Ave K to Ave I
		270	Lancaster	Trails and Bikeways; 30th Street East On-street bikeway, Ave I to Ave L
		271	Lancaster	Trails and Bikeways; 30th Street West On-street bikeway, Ave M to Ave H
		272	Lancaster	Trails and Bikeways; 32nd Street West On-street bikeway, Ave J to Lancaster Blvd.
		273	Lancaster	Trails and Bikeways; 35th Street East On-street bikeway, Ave J-8 to Ave K
		275	Lancaster	Trails and Bikeways; 40th Street West On-street bikeway, Ave L to Ave J
		276	Lancaster	Trails and Bikeways; 50th Street West On-street bikeway, Ave I to Ave K-8
		277	Lancaster	Trails and Bikeways; 5th Street East On-street bikeway, Ave H-8 to Ave K
		278	Lancaster	Trails and Bikeways; 60th Street West On-street bikeway, Ave I to Ave M
		279	Lancaster	Trails and Bikeways; Avenue G On-street bikeway, 50th West to 25th West
		280	Lancaster	Trails and Bikeways; Avenue H On-street bikeway, 70th West to 30th East
		282	Lancaster	Trails and Bikeways; Avenue H-8 On-street bikeway, Division St to Sierra Highway
		283	Lancaster	Trails and Bikeways; Avenue I On-street bikeway, 70th West to 35th East
		284	Lancaster	Trails and Bikeways; Avenue J On-street bikeway, 70th West to 40th East
		286	Lancaster	Trails and Bikeways; Avenue J-8 On-street bikeway, 35th West to 10th West
		287	Lancaster	Trails and Bikeways; Avenue K On-street bikeway, 40th West to 30th East
		288	Lancaster	Trails and Bikeways; Avenue K-8 On-street bikeway, 35th West to 10th West
		289	Lancaster	Trails and Bikeways; Avenue L On-street bikeway, Business Center Pkwy to 40th West
		291	Lancaster	Trails and Bikeways; Avenue M On-street bikeway, 30th West to Sierra Highway
		292	Lancaster	Trails and Bikeways; Avenue N On-street bikeway, 30th West to 45th West
		293	Lancaster	Trails and Bikeways; Challenger Way On-street bikeway, Ave L to Ave I
		294	Lancaster	Trails and Bikeways; Division Street On-street bikeway, Ave H to Ave K
		295	Lancaster	Trails and Bikeways; Fern Avenue On-street bikeway, Ave I to Ave J
		296	Lancaster	Trails and Bikeways; Fig Avenue On-street bikeway, Lancaster Blvd to Ave J
		297	Lancaster	Trails and Bikeways; Lancaster Boulevard On-street bikeway, 32nd West to 40th East
		299	Lancaster	Trails and Bikeways; Valley Central Way On-street bikeway, Ave I to Lanc Blvd
		300	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Various streets in County unincorporated area; Pedestrian Improvement project (Local)
		301	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Various streets in Palmdale area - Pedestrian Improvement project (Local)
		302	Lancaster	Trails and Bikeways; Jogging Trail Loop 1: 35th Street West, Avenue K-8, Sierra Highway, Avenue J
		303	Lancaster	Trails and Bikeways; Amargosa Creek Trail, Ave I to Ave L
		304	Lancaster	Trails and Bikeways; California Aqueduct Trail, 90th West to 110th West
		305	Lancaster	Trails and Bikeways; Utility Corridor Trail along SCE utility corridor approximately 100th St W and 78th St W between Ave J and M
306	Lancaster	Trails and Bikeways; 30th Street East Btwn Lancaster Blvd and Avenue I Pedestrian Improvements		
307	Lancaster	Trails and Bikeways; Avenue H-8/10th Street West Pedestrian Improvements		

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**



Program	Subprogram	MM Project ID	Jurisdiction*	Description
Active Transportation (continued)	Active Transportation Program (continued)	308	Lancaster	Trails and Bikeways; Avenue I Pedestrian Improvements: South side of Ave I from 35th East to 50th East
		309	Lancaster	Trails and Bikeways; Avenue I/10th Street West Pedestrian Improvements
		310	Lancaster	Trails and Bikeways; Avenue I/15th Street East Pedestrian Improvements
		311	Lancaster	Trails and Bikeways; Avenue I/5th Street East Pedestrian Improvements
		312	Lancaster	Trails and Bikeways; Avenue I/Division Street Pedestrian Improvements
		313	Lancaster	Trails and Bikeways; Avenue I/Fern Avenue Pedestrian Improvements
		314	Lancaster	Trails and Bikeways; Avenue I/Sierra Highway Pedestrian Improvements
		315	Lancaster	Trails and Bikeways; Avenue J/10th Street West Pedestrian Improvements
		316	Lancaster	Trails and Bikeways; Avenue J/20th Street East Pedestrian Improvements
		317	Lancaster	Trails and Bikeways; Avenue J/20th Street West Pedestrian Improvements
		318	Lancaster	Trails and Bikeways; Avenue J/Challenger Way Pedestrian Improvements
		319	Lancaster	Trails and Bikeways; Avenue J/Division Street Pedestrian Improvements
		320	Lancaster	Trails and Bikeways; Avenue J/Fig Avenue Pedestrian Improvements
		321	Lancaster	Trails and Bikeways; Avenue J/Sierra Highway Pedestrian Improvements
		322	Lancaster	Trails and Bikeways; Avenue J-8/10th Street West Pedestrian Improvements
		323	Lancaster	Trails and Bikeways; Avenue J-8/20th Street West Pedestrian Improvements
		324	Lancaster	Trails and Bikeways; Avenue J-8/27th Street West Pedestrian Improvements
		325	Lancaster	Trails and Bikeways; Avenue J-8/30th Street East Pedestrian Improvements
		326	Lancaster	Trails and Bikeways; Avenue J-8/30th Street West Pedestrian Improvements
		327	Lancaster	Trails and Bikeways; Avenue J-8/Sierra Highway Pedestrian Improvements
		330	Lancaster	Trails and Bikeways; Avenue K/10th Street West Pedestrian Improvements
		331	Lancaster	Trails and Bikeways; Avenue K/20th Street West Pedestrian Improvements
		332	Lancaster	Trails and Bikeways; Avenue K/30th Street West Pedestrian Improvements
		334	Lancaster	Trails and Bikeways; Avenue K/Yew Street Pedestrian Improvements
		335	Lancaster	Trails and Bikeways; Avenue K-8/10th Street West Pedestrian Improvements
		336	Lancaster	Trails and Bikeways; Avenue L (eastbound-/CA-14 Northbound off-ramp Pedestrian Improvements
		337	Lancaster	Trails and Bikeways; Avenue L (westbound-/CA-14 Northbound off-ramp Pedestrian Improvements
		338	Lancaster	Trails and Bikeways; Avenue L Eastbound On-ramp (west of railroad-/Sierra Highway Pedestrian Improvements
		339	Lancaster	Trails and Bikeways; Avenue L Eastbound/Sierra Highway on- and off-ramp Pedestrian Improvements
		340	Lancaster	Trails and Bikeways; Avenue L/20th Street West Pedestrian Improvements
		341	Lancaster	Trails and Bikeways; Jackman Avenue/Fern Avenue Pedestrian Improvements
		342	Lancaster	Trails and Bikeways; Lancaster Boulevard/12th Street West Pedestrian Improvements
		343	Lancaster	Trails and Bikeways; Lancaster Boulevard/15th Street West Pedestrian Improvements
		344	Lancaster	Trails and Bikeways; Lancaster Boulevard/30th Street East Pedestrian Improvements
345	Lancaster	Trails and Bikeways; Lancaster Boulevard/30th Street West Pedestrian Improvements		

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Active Transportation (continued)	Active Transportation Program (continued)	346	Lancaster	Trails and Bikeways; Lancaster Boulevard/Sierra Highway Pedestrian Improvements
		347	Lancaster	Trails and Bikeways; Jogging Trail Loop 2: Lancaster Blvd, 30th Street East, Soccer Center, Avenue J-8, 5th Street East
		348	Lancaster	Trails and Bikeways; 35th Street West Paved Multipurpose Path, Ave L to Lancaster Blvd.
		350	Lancaster	Trails and Bikeways; Lancaster Blvd/Avenue I Loop Paved Multipurpose Path south side of Ave I from 35th to 50th; east side of 50th St W from Ave I to Lancaster Blvd, north side of Lancaster Blvd from 50th St W to 35th St, west side of 35th St W from Lancaster Blvd to Ave I
		351	Lancaster	Trails and Bikeways; Avenue K-8 from 30th Street West to 15th Street West Trail
		352	Lancaster	Trails and Bikeways; Drainage Channel Trail: along drainage channel on 33rd St E from Ave L to Ave K
		393	Palmdale	Palmdale Safe Routes to School Program
		394	Lancaster	Lancaster Safe Routes to School Program
Arterial Program	Arterial Capacity Enhancement Program	1	Palmdale	Highway Corridor/Gap Closure/Goods Movement; 20th Street West Bridge construction
		2	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; The Old Rd - 700 feet n/o Magic Mountain Pkwy to Tumberry Ln; Henry Mayo Dr - The Old Rd to the SR 126 hook ramps; Rye Cyn Rd - The Old Rd to Ave Stanford; and Skyview Lane - The Old Rd to Entertainment Dr; Road and bridge widening project
		5	County of Los Angeles	I-5 Parker Road - Intersection Improvements including bridge widening and lane additions
		7	Palmdale	Avenue R- Widen from 5th St. E to 20th St E
		12	County of Los Angeles	I-5 Lake Hughes Rd- Intersection improvements and widening to provide additional lanes on EB and WB Approaches
		16	County of Los Angeles	Castaic Cutoff (New Road); Lake Hughes Rd/San Francisquito Canyon Road
		17	Lancaster, Palmdale	Columbia Wy/Av M Corridor Improvements; Capacity & interchange improvements at SR 14 from 10th St W to 15th St W, serving major industrial centers & Courthouse
		19	Palmdale	Tierra Subida Av/10th St W Improvement Project; Capacity improvements betw SR 14/10th St W & SR 14/Av S
		22	Palmdale	Highway Corridor/Gap Closure/Goods Movement; 10th Street West roadway construction between Elizabeth Lake Road and Avenue M.
		23	Palmdale	Highway Corridor/Gap Closure/Goods Movement; 62nd/70th Streets East widening, extension to Avenue T.
		24	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Division Street roadway construction between SR 138 and Avenue M.
		25	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Tierra Subida Avenue roadway widening between Rayburn Road and Avenue S.
26	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Rayburn Road widening between Division Street and Tierra Subida Avenue		

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**



Program	Subprogram	MM Project ID	Jurisdiction*	Description
Arterial Program (continued)	Arterial Capacity Enhancement Program (continued)	27	Palmdale	Highway Corridor/Gap Closure/Goods Movement; 50th Street East widening between SR138 and Avenue M
		28	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; 170th St East - Avenue J to Avenue N; Reconstruction/Widening project
		29	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; 30th St W-Avenue M to Avenue O-12; Widening project
		30	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; 40th St W-Avenue K-4 to Avenue K-12; Widening project
		31	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; 40th St W-Avenue L to Avenue M; Widening project
		32	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; 50th St W-Avenue K to Avenue N; Widening project
		33	Palmdale	Highway Corridor/Gap Closure/Goods Movement; 50th Street East Connector Arterial for E-220 to SR 138/ Palmdale Blvd Roundabout
		34	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; 60th St W-Avenue L-4 to Avenue L-8; Widening project
		35	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; 60th St W-Avenue M to Avenue M-8; Widening project
		36	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Avenue K - 40th St W to 52nd St W; Widening project
		37	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Avenue L-40th St W to 57th St W; Widening project
		38	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Avenue M widening between SR14 and 50th Street East
		39	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Avenue M-30th St W to Antelope Valley Freeway; Widening project
		40	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Avenue M-40th St West/60th St West; Widening project
		41	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Avenue N-45th St W to SR 14; Widening project
		42	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Avenue O-30th St W to 10th St W; Widening project
		43	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Avenue Q widening between SR14 and 50th Street East
		44	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Avenue R roadway construction between Division and 70th Street East
45	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Avenue T roadway construction between Fort Tejon Road and City Limit at 80th St. East		

SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Arterial Program (continued)	Arterial Capacity Enhancement Program (continued)	46	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Elizabeth Lake Road - Foxholm Drive to Ocotillo Drive; Widening project
		47	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Escondido Cyn Rd-Norcross Dr/Puritan Mine Rd; Widening project
		48	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Rancho Vista Boulevard / Avenue P roadway construction between Fairway Drive and 50th Street East
		49	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; The Old Road - Hillcrest Parkway to Lake Hughes Road; Widening project
		50	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Valencia Blvd from the future Homestead Village Entrance to Magic Mountain Parkway; Widening project
		51	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Technology Drive roadway construction between SR14 and Sierra Highway
		63	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Various streets in Palmdale area - Intersection improvement projects (Local)
		64	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Avenue S at 47th Street East/SR 138 Intersection Widening
		65	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Fort Tejon Road/SR 138 at Avenue T Intersection Widening
		66	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Palmdale Blvd at 30th Street East Intersection Widening
		67	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Palmdale Blvd at 40th Street East Intersection Widening
		88	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 36th St West from Avenue J-8 to Avenue J-10
		89	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 37th St West from Avenue J-8 to Avenue J-10
		90	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 6th St East from Avenue J-10 to Avenue J-11
		91	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 7th St East from Avenue J-10 to Avenue J-11
		92	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 8th St East from Avenue J-10 to Avenue J-11
		93	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Yucca Avenue from Avenue J-11 to 1100 feet north of Ave J-11
		94	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 35th West, Ave J-10 to Ave J-12
		95	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 22nd St West from Avenue L to Avenue L-8
		96	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 5th St East, Ave J to Ave J-8
		97	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 8th St East from Avenue J-6 to Avenue J-8
98	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 42nd St West, Ave K to Ave J-10		
99	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 21st Street West from Avenue L to Avenue M		
100	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 23rd St West from Avenue L-4 to Avenue M		
101	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 32nd St West from Avenue L-8 to Avenue M		
102	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 3rd Street East from Avenue L to Avenue M		

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Arterial Program (continued)	Arterial Capacity Enhancement Program (continued)	104	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 5th Street East from Avenue L to Avenue M
		105	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 6th Street East from Avenue L to Avenue M
		106	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 7th Street East from Avenue L to Avenue M
		107	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 8th Street East from Avenue L to Avenue M
		108	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue M, 40th West to Challenger Way
		109	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue N, 30th West to 45th West
		110	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 10th Street East Corridor, Ave H to Ave M
		111	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 10th Street West Corridor, Ave G to Ave M
		112	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 15th Street East Corridor, Ave H-8 to Ave K-4
		113	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 15th Street West Corridor, Ave H to Ave L
		114	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 20th Street East Corridor, Ave H to Ave M
		115	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 20th Street West Corridor, Ave H to Ave M
		116	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 25th Street East Corridor, Ave H-8 to Ave K
		117	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 25th Street West Corridor, Ave J to Ave L-2
		118	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 30th Street East Corridor, Ave H to Ave M
		119	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 30th Street West Corridor, Ave F to Ave M
		120	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 35th Street East Corridor, Ave H to Ave L
		121	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 35th Street West Corridor, Ave I to Ave M
		122	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 40th Street East Corridor, Ave H to Ave L
		123	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 40th Street West Corridor, Ave G to Ave M
		124	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 45th Street West Corridor, Ave J to Ave K
		125	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 4th Street East Corridor, Ave K to Ave M
		126	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 50th Street West Corridor, Ave G to Ave M
		127	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 5th Street West Corridor, Ave K to Ave L
		128	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 60th Street West Corridor, Ave F to Ave M
		129	Lancaster	Highway Corridor/Gap Closure/Goods Movement; 70th Street West Corridor, Ave K to Ave M
		130	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue G Corridor, 60th West to Division St
		131	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue H Corridor, 60th West to 50th East
		132	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue I Corridor, 60th West to 40th East
		133	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue J Corridor, 65th West to 40th East
		134	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue J-8 Corridor, Division St to 40th East
		135	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue K Corridor, 50th West to 40th East
		136	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue K-8 Corridor, 35th East to 10th West
		137	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue L Corridor, 4th East to 35th East
		138	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue L-8 Corridor, 15th West to 26th West
		139	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Division Street Corridor, Ave K-8 to Ave H
		140	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Lancaster Boulevard Corridor: Yucca Avenue to Division St

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description	
Arterial Program (continued)	Arterial Capacity Enhancement Program (continued)	141	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Sierra Highway Corridor, Ave M to Ave G	
		142	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue H-12 from 18th Street East to 20th Street East	
		143	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue J-12 from 7th Street East to 8th Street East	
		144	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue J-12 from Division to 12th Street East	
		145	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue J-4 from 26th Street East to 27th Street East	
		146	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue K-4 east of Gadsden to 5th Street West	
		147	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue K-6 east of Gadsden to 5th Street West	
		148	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue L-12 from 20th Street West to 30th Street West	
		149	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue L-4 from 20th Street West to 27th Street West	
		150	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Kettering St from 27th Street East to 30th Street East	
		151	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Oldfield St from Fern Ave to Genoa Street	
		152	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue H-2 From Division Street to Railroad Right-of-way	
		153	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Avenue H-8 from 6th Street East to Challenger Way	
		154	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Business Center Parkway, Ave K-8 to Ave L	
		155	Lancaster	Highway Corridor/Gap Closure/Goods Movement; Valley Central Way, Ave I to Lancaster Blvd.	
	380	County of Los Angeles	Hasley Canyon Road at Del Valle Road		
	392	Palmdale	Palmdale Intersection Improvement Program		
	397	Caltrans	The Old Road: Widen The Old Road to provide continuous 4 lanes between Sierra Highway to north of Weldon Canyon Road in Santa Clarita.		
		Arterial ITS Program	70	County of Los Angeles, Lancaster, Palmdale, Santa Clarita	SR 14- Install Traffic Signal Synchronization and Other Improvements along major arterial roads serving SR 14 (Sierra Highway, Agua Dulce Canyon Rd, San Canyon Rd, Soledad Canyon Rd, San Fernando Rd)
			74	County of Los Angeles	The Old Road - Hasley Cyn to Pico Cyn
	76		County of Los Angeles	Hasley Cyn Rd/Commerce Center- Burlwood Dr to I-5 Fwy	
	77		County of Los Angeles	Pico Canyon Rd - Dead Horse Cyn to I-5 Fwy	

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Arterial Program (continued)	Arterial ITS Program	78	County of Los Angeles	Rye Canyon Rd/Copper Hill Rd- The Old Road to McBean Pkwy
		79	County of Los Angeles	Stevenson Ranch Pkwy- Pico Cyn to I-5 Fwy
		80	County of Los Angeles	Traffic Signal and Signal Synchronization; Various streets in County unincorporated area; Traffic Signal Improvement projects (Local)
		81	Lancaster	Traffic Signal and Signal Synchronization; Various streets in Lancaster area; Traffic Signal Improvement projects (Local)
		82	Palmdale	Traffic Signal and Signal Synchronization; Various streets in Palmdale area - Traffic Signal Improvement projects (Local)
		381	County of Los Angeles	30th Street W - West Avenue I to Rancho Vista Bl.
		382	County of Los Angeles	Wireless Communications System for North County/Antelope Valley Area (Various Locations)
		398	Caltrans	SR 138 from Jct. 14 to Avenue T in Palmdale: Install fiberoptic signal interconnect.
	Grade Separation and Crossing Program	4	Lancaster	Grade Separation; Milling Street Grade Separation
		156	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Various streets in Palmdale area - At Grade Rail Crossing Improvements
		158	Palmdale	Grade Separation; Avenue M at Sierra Highway Grade Separation (UPRR and Metrolink)
		159	Palmdale	Grade Separation; Avenue R at Sierra Highway Grade Separation (UPRR and Metrolink)
		160	Palmdale	Grade Separation; Rancho Vista Boulevard at Sierra Highway Grade Separation (UPRR and Metrolink)
		161	Palmdale	Grade Separation; Sierra Highway at the Alignment of Avenue P-8 (UPRR and Metrolink)
		162	County of Los Angeles	Grade Separation; Barrel Springs RD at SCRRA
		163	Lancaster	Grade Separation; Avenue G Grade Separation
		164	Lancaster	Grade Separation; Avenue I Grade Separation
		165	Lancaster	Grade Separation; Avenue J Grade Separation
	166	Lancaster	Grade Separation; Avenue K Grade Separation	
	167	County of Los Angeles	Grade Separation; Avenue S over Metrolink Tracks grade separation at Sierra Highway	
	State of Good Repair Program	52	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Various streets in County unincorporated area; Bridge Rehabilitation project (Local)
		53	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Various streets in Palmdale area - Bridge Rehabilitation projects (Local)
		54	Lancaster	Operation and Maintenance; Various streets in Lancaster area; Overlay, sidewalk, curb & Parkway Preservation projects (Local)
		55	Palmdale	Operation and Maintenance; Various streets in Palmdale area - Overlay, sidewalk, curb & Parkway Preservation projects (Local)

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description	
Arterial Program (continued)	State of Good Repair Program (continued)	56	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Various streets in County unincorporated area; Aesthetics and Beautification project (Local)	
		57	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Various streets in Palmdale area - Aesthetics and Beautification project (Local)	
		58	County of Los Angeles	Operation and Maintenance; Various streets in County unincorporated area; Sidewalk, curb & Parkway Preservation projects (Local)	
		60	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Various streets in County unincorporated area; Pavement Preservation project (Local)	
		61	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Various streets in County unincorporated area; Pave dirt road and drainage improvement project (Local)	
Goods Movement	Regional Inland Port	386	Lancaster, Palmdale	Regional Inland Port (Location TBD)	
Highway Program	High Desert Corridor	205		HDC N-S. SR 14 to HDC SR 138 – Add 2 lanes	
		220	County of Los Angeles	High Desert Corridor (Phase 2) - Design and construction of the multi-purpose corridor including highway, high-speed train, green energy, and bicycle elements. Assumes P-3 delivery method.	
		221	Palmdale	Freeway and Interchange; High Desert Corridor - Phase 1 from SR 14 to 110th Street East	
	Highway Capacity Enhancement Program	Highway Capacity Enhancement Program	170	County of Los Angeles	Grade Separation; Long Canyon Road/Chiquito Canyon Road going underneath a 6-lane SR126 overpass ; grade separated interchange
			210	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Sierra Hwy widening between Avenue M and Pearblossom Hwy
			211	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; Long Canyon Road from SR 126 to the future Homestead Village entrance (excludes bridge); Roadway Capacity (construct 6-lane major highway)
			212	Palmdale	Highway Corridor/Gap Closure/Goods Movement; Pearblossom Hwy widening between SR14 and Fort Tejon Road/Avenue T intersection.
			214	Palmdale	SR138 roadway improvements from SR14 to Fort Tejon/Pearblossom/Avenue T intersection and additional unfunded segments to San Bernadino County Line
			Highway Interchange and Ramp Program	Highway Interchange and Ramp Program	68
	191	County of Los Angeles			Highway Corridor/Gap Closure/Goods Movement; SR 126 and San Martinez Grande Canyon Road; Intersection Improvement (new 3-way intersection)
	192	Palmdale			Freeway and Interchange; Avenue S at SR 14
	384	Lancaster			Avenue K-8 Interchange at State Route 14
396	Caltrans	I-5 at SR 126: Construct NB I-5 to WB SR 126 direct connector. Existing NB 5 Off to SR 126 is beginning to approach capacity.			

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**



Program	Subprogram	MM Project ID	Jurisdiction*	Description
Highway Program (continued)	Highway ITS Program	69	County of Los Angeles, Lancaster, Palmdale	SR 14- Deployment of 4 ITS projects along the proposed SR 14 HOV lanes. I-5 to Avenue P along SR 14
		84	LA, Lancaster, Palmdale, Santa Clarita	I-5- In Los Angeles, SR 14 to Kern County Line. Install CCTV and Communications System from SR 14 to the Kern Co. line
		190	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; SR 126 and future Homestead Village entrance; Intersection Improvement (new 3-way intersection)
		193	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; SR 126 and Wolcott Way; Intersection Improvement and widen median to allow double left-turns
		194	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; SR 126 and County Line; Intersection Improvement
		217	County of Los Angeles, Lancaster, Palmdale, Santa Clarita	SR 14- Expansion of Freeway Service Patrol (FSP- Throughout the SR 14 corridor
	I-5 Improvements: Pico Canyon to Kern County Line	174	County of Los Angeles, Santa Clarita	I-5- SR 126 West to Lake Hughes Rd– Add 1 Truck Climb and 1 HOV
		199	County of Los Angeles	I-5- Lake Hughes Rd to Kern County Line – Add 1 Truck Climb
		395		I5 from Pico Canyon to SR 126: Add 1 truck lane and 1 HOV lane in each direction
	Pearblossom Hwy State of Good Repair Project	59	Palmdale	Pearblossom Hwy Improvement Project; Corridor improvements betw SR 14 & SR 138 to commuter/trucking route
	SR 138 Improvement: I-5 to SR 14	215	County of Los Angeles	Highway Corridor/Gap Closure/Goods Movement; SR 138 from I-5 to SR 14; Corridor Improvement
	SR 14 Improvements: I-5 to Kern County Line	177	County of Los Angeles, Lancaster, Palmdale	SR 14- Avenue P to Avenue L – Add 1 mixed flow lane and 1 HOV
		196		SR 14: I-5 to Kern County Line (Mixed-flow improvements)
		200	County of Los Angeles, Lancaster	SR 14- Avenue L to Kern Co Line – Add 1 mixed flow lane

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM		Description
		Project ID	Jurisdiction*	
Highway Program	SR 14 Improvements: I-5 to Kern County Line (continued)	209	Palmdale	Freeway and Interchange; SR 14 Widening and gap closure to provide a consistent 3 lanes and HOV lane in each direction from Sand Canyon Rd to Rancho Vista Boulevard/Avenue P. Consider adding additional HOV or Truck climbing lane
		218	Lancaster	Freeway and Interchange; Context Sensitive Solutions (SR 14, Avenue M to Avenue G)
Multimodal Program	Lancaster Regional Hospital District Mobility Network	385	Lancaster	Regional Hospital District Mobility Network: Multi-modal network of roadways, bikeways, and transit access around Antelope Valley Hospital: 20th St W, Avenue J, 15th St W, and Avenue J-8
	Park-and-Ride/Station Access Program	353	Palmdale	SR 138/HDC E-W- Park-and-ride. 11 new lots 4,000 total spaces
		354		SR 14- SR 14 Corridor. Add and/or expand park-and-ride facilities
		391	Palmdale	Palmdale Transportation Center Area Improvements Program- new CA-HSR and Xpress West multimodal station will require significant surface improvements in the area of the station.
	People Mover to Palmdale Airport	378	Palmdale	Transit; People mover from the Palmdale Transportation Center to the Palmdale Regional Airport
Transit Program	AVTA Bus Rapid Transit Project: Palmdale Bl and 10th St W	371	AVTA	Transit; AVTA Bus Rapid Transit Project (Palmdale Bl and 10th St W)
	Bus Service Program	355		I5 Corridor - Long haul bus service expansion program
		357	County of Los Angeles, Lancaster, Palmdale	Increase Shuttle service from Metrolink Stations to employment destinations in Lancaster and Palmdale
		359	Palmdale	Local and express buses on High Desert Corridor (east/west routes)
		367	Lancaster	Lancaster Bus Stop Improvement Program, Phases 1 and 2
		368	Palmdale	Transit; Bus Stop Upgrades for ADA Compliance
		369	Lancaster	Transit; Balance of Bus Stop Improvement Program
		387	AVTA	Expand transporter (790) bus service
		388	AVTA	Expand commuter bus services
	389	AVTA	Electric bus expansion program	
	Metrolink Antelope Valley Line Improvements	376	Palmdale	Transit; Metrolink Improvements as identified in the AV Line Study Conducted by Metro
		399	Metrolink	EMF Additional Storage Tracks: Increase storage capacity at EMF by extending the length of the existing storage tracks and adding a middle crossover.
		400	Metrolink	EMF SKI Tracks: Add 2 SKI tracks at EMF. Install dump stations and potable water.
		401	Metrolink	Locomotives (for base case growth of locomotives and cars): This is the amount needed for the "organic" growth (irrespective of 30 min. service) and is not counted as part of the 30 min. growth scenario
		403	Metrolink	Palmdale Passing Siding : Construct 2,000 foot passing siding between MP 69.3 and MP 69.9

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Transit Program (cont.)	Metrolink Antelope Valley Line Improvements (cont)	405	Metrolink	Soledad Cyn Crossing to Robbins Nest Crossing Double Track : MP 47.1 - MP 48.3: Construct 2400 TF, 1500 TF shift, 1 EA 10', 3 EA 8', and 1 EA 6' bridge  MP 48.3 - 50.5: Construct 9050 TF, 1800 TF shift, 2 EA 6' bridges  MP 50.5 - MP 50.9: 1500 TF shift, 2 EA 8' bridges
		406	Metrolink	Thousand Trails Road to CP Harold Track Construction and Improvements: MP 54.3- MP 54.6: 1200 TF shift MP 54.6- MP 55.4: 280 TF shift, Construct 1200 TF MP 55.4-MP 55.9: Construct 2020 TF MP 55.9-MP 57.4: 250 TF shift MP 57.4-MP 60.0: 4000 TF shift, construct 4300 TF, 400 FT concrete wall MP 60 - MP 61.2: 400 TF shift, construct 1500 TF, shift 1 EA turnout MP 61.2-MP 62.2: 2000 TF shift, construct 7100 TF, shift 1 EA turnout MP 62.2-MP 64.7: Construct 11660 TF, 1 EA 190' bridge * 5580' MSE Wall MP 64.7-MP 66.3: Construct 2930 TF MP 66.3-MP 67.4: Construct 3490 TF
		407	Metrolink	Track Modifications (Tunnels 18 & 19): MP 45.9 - 46.9: 1750 TF shift  MP 46.9 - 47.1: 1000 TF shift
		409	Metrolink	Palmdale Station (platform extension): Extend platform to allow for operation of 8-car trains and improve station design
		413	Metrolink	Vincent Station Platform Extension: Extend platform to allow for operation of 8-car trains and improve station design
		414	Metrolink	Another CMF level facility for heavy maintenance (for 30 min. service expansion): Need 100% size of CMF in approximately 2017. Will include the administrative offices from existing CMF, a run-through progressive car and loco shop, S&I, storage tracks, fuel system, train wash, shop machinery, and expanded warehouse capacity
		415	Metrolink	Expanded layover facility in Palmdale (30 min Expansion): Build out is 5 tracks, fuel, lighting, sewer connections and potable water.
		416	Metrolink	Locomotives (for 30 min. service Expansion): To get to a 30 minute headway, 26 additional locomotives will be needed. The cost of rail cars is assumed to be \$7 M/unit. For the "base case" (i.e. non 30 min. service), another 26 locomotives would be needed. The costs for the base case are shown separately.
		417	Metrolink	Rail Cars (for 30 min. service expansion): To get to a 30 min. headway, 90 additional rail cars will be needed. The cost of passenger car is assumed to be #3M/unit. For the "base case" (i.e. non 30 min. service), another 90 passenger cars would be needed. The costs for the base case are shown separately.
418	Metrolink	Reconfiguration of existing CMF: Relocate admin office to new CMF location and improve capacity by building a run-through progressive car and loco shop at existing CMF		

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Transit Program (continued)	Metrolink Antelope Valley Line Improvements (continued)	419	Metrolink	Santa Clarita - Acton Double Track (30 min expansion): Track work, increased signal spacing, additional crossover capability and improvements at certain stations. The unit cost for track and signals is \$6000/foot
		420	Metrolink	Rehab -Short Term: Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		421	Metrolink	Rehab -Mid Term: Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		422	Metrolink	Rehab -Long Term: Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		423	Metrolink	Rehab - Expansion (for 30 min. service on all Metrolink lines): Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		424	Metrolink	1000 Trails Road Crossing Improvements: Install additional track through crossing, relocate existing facilities to accommodate new track, potentially install exit gate in Northwest quadrant with raised median extending from intersection to crossing, install right turn only restrictive median on drive access in Southeast quadrant
		426	Metrolink	Aliso Canyon Road Crossing Improvements: Signage and striping; install additional track through crossing, relocate existing facilities to accommodate new track, install 100 ft median channelization to both approaches of the crossing
		427	Metrolink	Avenue J Crossing Improvements: Enhance at-grade crossing
		428	Metrolink	Avenue K Crossing Improvements: Enhance at-grade crossing
		429	Metrolink	Avenue R Crossing Improvements: Enhance at-grade crossing
		430	Metrolink	Avenue S Crossing Improvements: Signage and striping (review for sight distance and crossing time, potentially upgrade treatment); Install additional track through crossing, relocate existing facilities to accommodate new track
		431	Metrolink	Avenue S Grade Separation (HSR): Grade Separation
		432	Metrolink	Barrel Springs Road Crossing Improvements: Signage and striping; install additional track through crossing, relocate existing facilities to accommodate new track, install 100 ft median channelization to both approaches of the crossing

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Transit Program (continued)	Metrolink Antelope Valley Line Improvements (continued)	433	Metrolink	Bring 1 grade crossing to new SCRRRA Standards (including active warning devices and civil improvements) 5 xings/yr * 5 years * \$2M per xing = \$50M Systemwide*: Bring 1 grade crossing to new SCRRRA Standards (including active warning devices and civil improvements) 5 xings/yr * 5 years * \$2M per xing = \$50M Systemwide*
		434	Metrolink	Cameras at Grade Crossings: Install cameras at grade crossings
		435	Metrolink	Canyon Park Blvd Crossing Improvements: Signage and striping; install additional track through crossing, relocate existing facilities to accommodate new track, install exit gates on Northwest quadrant
		436	Metrolink	Columbia Way (formerly Avenue M) Crossing Improvements: Enhance at-grade crossing
		437	Metrolink	Crown Valley Road Crossing Improvements: Signage and striping; install additional track through crossing, relocate existing facilities to accommodate new track, install 100 ft median channelization to both approaches of the crossing
		440	Metrolink	Lancaster Blvd Crossing Improvements: Enhance at-grade crossing
		441	Metrolink	Lang Station Crossing Improvements: Signage and striping; install lights, gates, 100 ft median channelization on both approaches
		444	Metrolink	Palmdale Blvd Crossing Improvements: Enhance at-grade crossing
		445	Metrolink	Palmdale Blvd Grade Separation (HSR): Grade separation
		447	Metrolink	Rancho Vista Blvd (formerly Avenue P) Crossing Improvements: Enhance at-grade crossing
		448	Metrolink	Rancho Vista Blvd (formerly Avenue P) Grade Separation: Grade separation
		450	Metrolink	Sierra Highway Crossing Improvements: Signage and striping; relocate existing facilities to north and install new track on north side of crossing, install 100 ft median channelization on both approaches
		451	Metrolink	Sierra Highway Grade separation (HSR): Grade separation
	Metrolink Extension to Kern County	383	Metrolink/Palmdale	Extend Metrolink to Kern County
	Neighborhood transit centers program	390	AVTA	Neighborhood transit centers program (Antelope Valley College , 47th and Ave S, Lake Los Angeles, Lancaster Station)

\* "Jurisdiction" may refer to the lead project sponsor, the jurisdiction where the project exists, or the agency that proposed the addition of the project. Projects without specified jurisdictions were sourced from other planning documents (e.g. Metro Long Range Transportation Plan and others) where no lead or proposing agency was listed.

**SUBREGIONAL MOBILITY MATRIX – NORTH COUNTY**









## **2e. San Fernando Valley**

- 1. Detailed Cost Estimate Ranges**
- 2. Summary of Cost Estimates and Categorizations**
- 3. Performance Evaluations**
- 4. Project Descriptions**



## **San Fernando Valley**

### **1. Detailed Cost Estimate Ranges**

**Table 5-2. Rough Order-of-Magnitude Capital Cost by Subprogram (2015 thousands of dollars)**

Program	# of projects	Projects with Estimated Costs	Projects with Original Costs	Cost Estimates					
				Short-Term		Mid-Term		Long-Term	
				Low	High	Low	High	Low	High
<b>Arterial</b>									
Tunnel Program	2		2	\$0	\$0	\$34,000	\$51,000	\$34,000	\$51,000
Grade Separation Program	5	5		\$48,000	\$72,000	\$96,000	\$140,000	\$96,000	\$140,000
Extension or New Road Program	12	5	7	\$120,000	\$180,000	\$240,000	\$520,000	\$170,000	\$420,000
Widening Program	17	16	1	\$78,000	\$130,000	\$120,000	\$180,000	\$77,000	\$130,000
State of Good Repair/Safety Program	1	1		\$5,300	\$11,000	\$5,300	\$11,000	\$5,300	\$11,000
TSM Program	7	4	3	\$20,000	\$30,000	\$1,600	\$2,400	\$70	\$110
<b>Goods Movement</b>									
Grade Crossing Safety Improvement Program	1	1		\$18,000	\$27,000	\$18,000	\$27,000	\$18,000	\$27,000
Arterial Program	1	1		\$20,000	\$30,000	\$20,000	\$30,000	\$20,000	\$30,000
Rail Program	1	1		\$12,000	\$18,000	\$12,000	\$18,000	\$12,000	\$18,000
<b>Highway</b>									
Arterial Interchange Program*	21		12	\$26,000	\$60,000	\$120,000	\$250,000	\$130,000	\$200,000
Freeway Interchange Program	6		6	\$0	\$0	\$150,000	\$230,000	\$670,000	\$1,000,000
Freeway Corridor Program*	13		10	\$0	\$0	\$2,000,000	\$3,100,000	\$4,000,000	\$6,100,000
Soundwall Program	2		2	\$14,000	\$25,000	\$1,000	\$1,500	\$0	\$0
State of Good Repair/Safety Program	2	2		\$19,000	\$28,000	\$19,000	\$28,000	\$19,000	\$28,000
TSM Program*	3		2	\$77,000	\$110,000	\$77,000	\$110,000	\$0	\$0

**Active Transportation**

Program	# of projects	Projects with Estimated Costs	Projects with Original Costs	Cost Estimates					
				Short-Term		Mid-Term		Long-Term	
				Low	High	Low	High	Low	High
Bicycle/Pedestrian Program	9	5	4	\$85,000	\$150,000	\$98,000	\$170,000	\$2,200	\$4,400
ADA Access Program	1	1		\$3,000	\$5,500	\$0	\$0	\$0	\$0
Pedestrian Bridge Program	3	3		\$4,000	\$6,000	\$15,000	\$18,000	\$0	\$0
Complete Streets Program	2	2		\$3,500	\$6,400	\$3,000	\$4,400	\$3,000	\$4,400
Sustainability Program	2	1	1	\$1,300	\$2,000	\$48	\$72	\$0	\$0
Park-and-Ride Program	3	1	2	\$13,000	\$21,000	\$20,000	\$28,000	\$0	\$0
TDM Program	1	1		\$550	\$800	\$550	\$800	\$0	\$0
Mobility Hubs/First-Last Mile Program	2	2		\$9,700	\$18,000	\$9,700	\$18,000	\$9,700	\$17,600
<b>Transit</b>									
Bus Program	14	14		\$59,000	\$99,000	\$45,000	\$73,000	\$38,000	\$62,000
BRT Program	3	3		\$0	\$0	\$120,000	\$190,000	\$120,000	\$190,000
Commuter Rail Program	2		2	\$900,000	\$1,300,000	\$900,000	\$1,300,000	\$900,000	\$1,300,000
Real-Time Travel Information Program	1	1		\$190	\$290	\$0	\$0	\$0	\$0
Rail Program	3	3		\$0	\$0	\$3,500,000	\$4,100,000	\$3,400,000	\$4,000,000
Rail or Bus Program	2		2	\$0	\$0	\$730,000	\$3,300,000	\$730,000	\$3,300,000
State of Good Repair/Safety Program	1	1		\$0	\$0	\$15,000	\$22,000	\$15,000	\$22,000
Transit Center Program	2		2	\$24,000	\$30,000	\$10,000	\$15,000	\$0	\$0
<b>Total</b>	<b>145</b>			<b>\$1,600,000</b>	<b>\$2,400,000</b>	<b>\$8,400,000</b>	<b>\$14,000,000</b>	<b>\$10,000,000</b>	<b>\$17,000,000</b>

\*Some individual projects within the subprogram have missing costs, but they are not expected to greatly increase the overall cost of the program.



# **San Fernando Valley**

## **2. Summary of Cost Estimates and Categorizations**

**Table 5-3. Rough Order-of-Magnitude Project Cost Estimates and Categorizations (2015 dollars)**

Type / Category	Arterial	Goods Movement	Highway	Active Transport.	Transit	Total
<b>Short-Term (0-10 yrs)</b>	18 Projects \$270M - \$410M	3 Projects \$50M - \$75M	12 Projects* \$140M - \$220M	18 Projects \$120M - \$210M	17 Projects \$980M - \$1.5B	68 Projects \$1.6B - \$2.4B
<b>Mid-Term (11-20 yrs)</b>	31 Projects \$500M - \$910M	3 Projects \$50M - \$75M	29 Projects* \$2.4B - \$3.7B	17 Projects \$150M - \$240M	18 Projects \$5.3B - \$9B	98 Projects \$8.4B - \$14B
<b>Long-Term (&gt;20 yrs)</b>	22 Projects \$390M - \$760M	3 Projects \$50M - \$75M	32 Projects* \$ 4.8B - \$7.3B	5 Projects \$10M - \$26M	12 Projects \$5.2B - \$8.9B	74 Projects \$10B - \$17B
<b>Total</b>	44 Projects \$1.2B - \$2.1B	3 Projects \$150M - \$230M	47 Projects \$7.3B - \$11B	23 Projects \$280M - \$480M	28 Projects \$11B - \$20B	145 Projects \$20B - \$33B

\*Some individual projects within the subprogram have missing costs, but they are not expected to greatly increase the overall cost of the program.

Note: Regional Facilities projects and programs at Bob Hope Airport are not included in the table.



# **San Fernando Valley**

## **3. Performance Evaluations**

**Table 4-2. Performance Evaluation – Summary by Subprogram**

ID	# of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>•Reduce Travel Times</li> <li>•Increase Reliability</li> <li>•Improve System Connectivity</li> </ul>	<ul style="list-style-type: none"> <li>•Improve Safety</li> <li>•Reduce Mode Conflicts</li> <li>•Improve Transit Safety/Security</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce GHG Emissions</li> <li>•Improve Quality of Life</li> <li>•Encourage Efficient Mode Share</li> </ul>	<ul style="list-style-type: none"> <li>•Accommodate Goods Movement</li> <li>•Reduce Number and Length of Trips</li> <li>•Enhance Economic Output</li> </ul>	<ul style="list-style-type: none"> <li>•Integrate Transit Hubs</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve First/Last Mile Connections</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Balance Maintenance &amp; Rehabilitation</li> </ul>
<b>Arterials</b>							
Tunnel Projects	2	○	○	○	○	○	○
Grade Separation Projects	5	●	●	◐	◐	○	◐
Extension or New Road Projects	9	●	○	○	◐	○	○
Widening Programs/Projects	17	◐	○	—	○	○	◐
State of Good Repair/Safety Programs	1	◐	◐	◐	◐	○	●
TSM	7	◐	○	◐	○	○	○
<b>Goods Movement</b>							
Grade Crossing Safety Improvement Programs	1	○	●	○	●	◐	◐
Arterial Programs	1	○	◐	○	●	○	◐
Rail Programs	1	●	◐	◐	●	○	◐

ID	# of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>•Reduce Travel Times</li> <li>•Increase Reliability</li> <li>•Improve System Connectivity</li> </ul>	<ul style="list-style-type: none"> <li>•Improve Safety</li> <li>•Reduce Mode Conflicts</li> <li>•Improve Transit Safety/Security</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce GHG Emissions</li> <li>•Improve Quality of Life</li> <li>•Encourage Efficient Mode Share</li> </ul>	<ul style="list-style-type: none"> <li>•Accommodate Goods Movement</li> <li>•Reduce Number and Length of Trips</li> <li>•Enhance Economic Output</li> </ul>	<ul style="list-style-type: none"> <li>•Integrate Transit Hubs</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve First/Last Mile Connections</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Balance Maintenance &amp; Rehabilitation</li> </ul>
<b>Highways</b>							
Arterial Interchange Programs/Projects	22	●	○	○	○	○	◐
Freeway Interchange Projects	6	●	◐	○	○	○	◐
Freeway Corridor Projects	13	●	○	—	○	○	○
Soundwall Projects	2	○	○	◐	○	○	○
State of Good Repair/Safety Programs	2	◐	◐	◐	◐	○	●
TSM	3	◐	◐	○	○	○	○

**SUBREGIONAL MOBILITY MATRIX – SAN FERNANDO VALLEY**

ID	# of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>•Reduce Travel Times</li> <li>•Increase Reliability</li> <li>•Improve System Connectivity</li> </ul>	<ul style="list-style-type: none"> <li>•Improve Safety</li> <li>•Reduce Mode Conflicts</li> <li>•Improve Transit Safety/Security</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce GHG Emissions</li> <li>•Improve Quality of Life</li> <li>•Encourage Efficient Mode Share</li> </ul>	<ul style="list-style-type: none"> <li>•Accommodate Goods Movement</li> <li>•Reduce Number and Length of Trips</li> <li>•Enhance Economic Output</li> </ul>	<ul style="list-style-type: none"> <li>•Integrate Transit Hubs</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve First/Last Mile Connections</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Balance Maintenance &amp; Rehabilitation</li> </ul>
<b>Active Transportation</b>							
Bicycle/Pedestrian Programs/Projects	8	●	●	●	○	●	○
ADA Access	1	○	●	○	○	●	○
Pedestrian Bridges	3	○	●	○	○	●	○
Complete Streets Program	2	○	●	●	●	●	○
Sustainability Programs	3	○	○	●	○	○	○
Park and Ride Projects/Programs	3	●	○	●	●	●	●
TDM Program	1	●	○	●	●	●	○
Mobility Hubs/First-Last Mile Programs	2	●	○	●	○	●	○

**SUBREGIONAL MOBILITY MATRIX – SAN FERNANDO VALLEY**

ID	# of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>•Reduce Travel Times</li> <li>•Increase Reliability</li> <li>•Improve System Connectivity</li> </ul>	<ul style="list-style-type: none"> <li>•Improve Safety</li> <li>•Reduce Mode Conflicts</li> <li>•Improve Transit Safety/Security</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce GHG Emissions</li> <li>•Improve Quality of Life</li> <li>•Encourage Efficient Mode Share</li> </ul>	<ul style="list-style-type: none"> <li>•Accommodate Goods Movement</li> <li>•Reduce Number and Length of Trips</li> <li>•Enhance Economic Output</li> </ul>	<ul style="list-style-type: none"> <li>•Integrate Transit Hubs</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve First/Last Mile Connections</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Balance Maintenance &amp; Rehabilitation</li> </ul>
<b>Transit</b>							
Bus Programs/Projects	14	●	○	◐	○	●	○
Commuter Rail Programs	2	●	◐	●	●	◐	◐
Real-Time Travel Information	1	◐	◐	◐	○	◐	○
State of Good Repair/Safety Programs	2	◐	●	◐	○	○	●
Transit Center	2	◐	◐	◐	◐	◐	○
<b>BRT Projects</b>	<b>4</b>						
Metro Orange Line Extension: North Hollywood to Bob Hope Airport		●	○	●	●	●	○
Burbank to Hollywood BRT: Downtown Burbank to Hollywood		◐	○	◐	●	●	○
Pasadena to North Hollywood BRT: Via SR-134 through Glendale & Burbank		●	○	●	●	●	○
Metro Orange Line: Bus operational improvements (grade separations, etc)		●	◐	●	●	◐	○

**SUBREGIONAL MOBILITY MATRIX – SAN FERNANDO VALLEY**

ID	# of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>•Reduce Travel Times</li> <li>•Increase Reliability</li> <li>•Improve System Connectivity</li> </ul>	<ul style="list-style-type: none"> <li>•Improve Safety</li> <li>•Reduce Mode Conflicts</li> <li>•Improve Transit Safety/Security</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce GHG Emissions</li> <li>•Improve Quality of Life</li> <li>•Encourage Efficient Mode Share</li> </ul>	<ul style="list-style-type: none"> <li>•Accommodate Goods Movement</li> <li>•Reduce Number and Length of Trips</li> <li>•Enhance Economic Output</li> </ul>	<ul style="list-style-type: none"> <li>•Integrate Transit Hubs</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve First/Last Mile Connections</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Balance Maintenance &amp; Rehabilitation</li> </ul>
<b>Transit cont.</b>							
<b>Rail Projects</b>		6					
Burbank/Glendale LRT: LA Union Station to Burbank Airport		●	◐	●	◐	●	○
Pasadena to Burbank Airport LRT: Via SR-134 / I-5 through Glendale & Burbank		◐	◐	◐	◐	◐	○
Metro Red Line Extension: North Hollywood to Burbank Airport		◐	◐	◐	◐	◐	○
Metro Red Line Extension: North Hollywood to Sylmar		●	○	●	●	●	○
Glendale Downtown Streetcar		●	○	●	●	●	○
Metro Orange Line conversion to LRT		●	○	●	●	◐	○
<b>Rail or Bus Projects</b>		2					
Sepulveda Pass Transit Corridor		●	◐	●	◐	●	○
East San Fernando Valley Transit Corridor		◐	◐	◐	◐	●	○

**SUBREGIONAL MOBILITY MATRIX – SAN FERNANDO VALLEY**

ID	# of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>•Reduce Travel Times</li> <li>•Increase Reliability</li> <li>•Improve System Connectivity</li> </ul>	<ul style="list-style-type: none"> <li>•Improve Safety</li> <li>•Reduce Mode Conflicts</li> <li>•Improve Transit Safety/Security</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce GHG Emissions</li> <li>•Improve Quality of Life</li> <li>•Encourage Efficient Mode Share</li> </ul>	<ul style="list-style-type: none"> <li>•Accommodate Goods Movement</li> <li>•Reduce Number and Length of Trips</li> <li>•Enhance Economic Output</li> </ul>	<ul style="list-style-type: none"> <li>•Integrate Transit Hubs</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve First/Last Mile Connections</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Balance Maintenance &amp; Rehabilitation</li> </ul>
<b>Regional</b>							
Clybourn Ave: Grade separation at railroad tracks / Vanowen St / Empire Ave		●	●	◐	◐	○	◐
Hollywood Way: Widen to 6 lanes from Thornton Ave to Glenoaks Blvd		◐	○	○	○	○	◐
Hollywood Way/San Fernando Rd Metrolink station pedestrian bridge		○	●	○	○	◐	○
Burbank Airport: CNG Refueling Station		○	○	●	○	○	○
Metro Orange Line Extension: North Hollywood to Bob Hope Airport		●	○	●	●	●	○
Burbank/Glendale LRT: From LA Union Station to Burbank Airport		●	◐	●	◐	●	○
Pasadena to Burbank Airport LRT: Via SR-134 / I-5 through Glendale & Burbank		◐	◐	◐	◐	◐	○
Metro Red Line Extension: North Hollywood to Burbank Airport		◐	◐	◐	◐	◐	○

**SUBREGIONAL MOBILITY MATRIX – SAN FERNANDO VALLEY**





# **San Fernando Valley**

## **4. Project Descriptions**

Metro Subregional Mobility Matrix  
San Fernando Valley

Project Detail Matrix  
Draft Final to PDT

ID	Project Description	Agency	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair	Categorization Timeframe			
			<ul style="list-style-type: none"> <li>-Reduce Travel Times</li> <li>-Increase Reliability</li> <li>-Improve System Connectivity</li> </ul>	<ul style="list-style-type: none"> <li>-Improve Safety</li> <li>-Reduce Mode Conflicts</li> <li>-Improve Transit Safety/Security</li> </ul>	<ul style="list-style-type: none"> <li>-Reduce CHC Emissions</li> <li>-Improve Quality of Life</li> <li>-Encourage Efficient Mode Share</li> </ul>	<ul style="list-style-type: none"> <li>-Accommodate Goods Movement</li> <li>-Reduce Number and Length of Trips</li> <li>-Enhance Economic Output</li> </ul>	<ul style="list-style-type: none"> <li>-Integrate Transit Hubs</li> <li>-Serve Transit Dependent Populations</li> <li>-Improve First/Last Mile Connections</li> </ul>	<ul style="list-style-type: none"> <li>-Preserve Life of Facility or Equipment</li> <li>-Reduce Goods Movement Impact</li> <li>-Balance Maintenance &amp; Rehabilitation</li> </ul>	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs	
<b>Arterials</b>												
<b>Tunnel Projects</b>												
A2	Saticoy St: Build tunnel underneath Van Nuys Airport between Woodley St and Hayvenhurst Ave	LA	●	○	○	○	○	○			X	X
A3	Sepulveda Blvd: Widen tunnel at Mulholland Dr for added bike and traffic lanes	LA	●	●	○	○	○	○			X	X
<b>Grade Separation Projects</b>												
A4	Buena Vista St: Grade Separation at railroad tracks (Ventura County Line)	Burbank, Metrolink	●	●	●	●	○	●				X
A6	Doran St: Grade separation at railroad tracks / San Fernando Rd	Glendale, Metrolink	●	●	●	●	○	●	X			
A7	Magic Mountain Parkway: Grade separation at railroad tracks / Railroad Ave	Santa Clarita, Metrolink	●	●	●	●	○	●		X		
A8	Saticoy St: Grade separation at railroad tracks (between Van Nuys Ave and Woodman Ave)	LA, Metrolink	●	●	●	●	○	●		X		X
A9	Sunland Blvd: Grade separation at railroad tracks / San Fernando Rd	LA, Metrolink	●	●	●	●	○	●		X		X
<b>Extension or New Road Projects</b>												
A10	Monterey Rd: Extend to Glenoaks Blvd over Verdugo Wash	Glendale	●	○	●	○	○	○		X		
A11	Orange St: Extend over SR-134 between Doran St and Goode Ave	Glendale	●	○	●	●	○	○				X
A12	SR-134 Frontage Road: Construct S of freeway between Brand Blvd and Geneva St	Glendale	●	○	○	●	○	○				X
A13	Magic Mountain Pkwy: Extend from Railroad Ave to Via Princessa	Santa Clarita, Metrolink	●	○	○	●	○	○		X		
A14	Via Princessa : Extend from Isabella Pkwy to Circle J Ranch Rd	Santa Clarita	●	○	○	○	○	○	X			
A15	Dockweiler Drive: Extend from Valle del Oro to Railroad Ave	Santa Clarita, Metrolink	●	○	○	○	○	○	X			
A16	Santa Clarita Pkwy: Construct new road from Bouquet Canyon Rd to SR-14	Santa Clarita, Metrolink	●	○	○	○	○	○		X		
A17	Saticoy St: Extend from Van Nuys Blvd to Woodman St	LA, Metrolink	●	○	—	●	○	○		X		X
A18	Riverside Dr: Extend from Van Nuys Bl to Sepulveda Bl	LA, Metrolink	●	○	—	○	○	○		X		X
A19	Magnolia Bl: Extend from Hayvenhurst Av to Libbit Av and Haskell Av to Sepulveda Bl	LA, Metrolink	●	○	○	○	○	○		X		X
A20	Oxnard St: Extend from Sepulveda Bl to Woodley Av (including I-405 Interchange)	LA, Caltrans	●	○	—	●	○	○		X		X
A21	Sepulveda Bl: Extend from Rinaldi St to Roxford St	LA, Metrolink	●	○	—	●	○	○		X		X

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			•Reduce Travel Times •Increase Reliability •Improve System Connectivity	•Improve Safety •Reduce Mode Conflicts •Improve Transit Safety/Security	•Reduce GHG Emissions •Improve Quality of Life •Encourage Efficient Mode Share	•Accommodate Goods Movement •Reduce Number and Length of Trips •Enhance Economic Output	•Integrate Transit Hubs •Serve Transit Dependent Populations •Improve First/Last Mile Connections	•Preserve Life of Facility or Equipment •Reduce Goods Movement Impact •Balance Maintenance & Rehabilitation	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs
<b>Arterial cont.</b>											
<b>Widening Programs/Projects</b>											
A22	Burbank: General Plan intersection improvements	Burbank	●	○	◐	○	○	◐	X	X	X
A23	Santa Clarita: General Plan arterial improvements	Santa Clarita	●	○	○	○	○	◐	X	X	X
A24	Warner Center Specific Plan: Intersection and arterial improvements	LA	●	○	—	◐	○	◐	X	X	X
A26	Glendale Ave: Add 1 NB lane from Doran St to SR-134	Glendale	●	○	—	◐	○	◐		X	
A27	Golden Valley Rd: Widen from Sierra Hwy to Centre Pointe Pkwy	Santa Clarita	●	○	○	○	○	◐	X		
A28	Burbank Blvd: Widen from Cleon Av to Clybourn Av to provide 2 lanes in each direction.	LA	●	○	—	○	○	◐		X	X
A29	Victory Blvd: Widen WB from Canoga to De Soto Av	LA	●	○	—	○	○	◐	X	X	
A30	Topanga Canyon Blvd: Widen to provide six through lanes all day between US-101 and SR-118	LA, Caltrans	●	○	—	◐	○	◐	X	X	
A31	Chatsworth St: Widen from De Soto Av to Topanga Canyon Bl	LA, Metrolink	●	○	—	○	○	◐	X	X	
A32	Van Nuys Blvd: Improve capacity SB from Burbank Bl to US-101	LA	●	○	—	○	○	◐		X	X
A33	Hayvenhurst Av: Widen from Magnolia Bl to Ventura Bl	LA	●	○	—	○	○	◐		X	X
A34	Victory Blvd: Widen from White Oak Av to Sepulveda Bl	LA	●	○	—	○	○	◐		X	X
A35	Osborne St: Widen for pedestrian safety and improved traffic capacity from Foothill Bl to San Fernando Rd	LA, Metrolink	●	◐	—	◐	○	◐		X	
A36	Foothill Blvd: Widen from Sierra Hwy to Balboa Bl	LA, Caltrans	●	○	—	○	○	◐		X	
A37	Sepulveda Blvd: Widen from San Fernando Rd to Roxford St, including access to I-5 SB on-ramp	LA, Caltrans, Metrolink	●	○	—	◐	○	◐		X	
A38	Sierra Hwy: Add two lanes at intersection with San Fernando Rd (bridge over Metrolink tracks)	LA, Caltrans, Metrolink	●	○	—	○	○	◐	X	X	
A47	The Old Road: Widen The Old Road to provide continuous 4 lanes between Sierra Highway to north of Weldon Canyon Road in Santa Clarita.	LA, LA County, Caltrans, Metrolink	●	○	—	○	○	◐			X

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<b>Arterials cont.</b>											
<b>State of Good Repair/Safety Programs</b>											
A39	State of Good Repair/Safety Projects for arterials throughout region	Subregional	●	●	●	●	○	●	X	X	X
<b>TSM</b>											
A40	I-5/SR-134: Implement arterial improvements in interchange area to address movements with ramps missing at interchange	Burbank, Glendale, Caltrans	●	○	○	○	○	○		X	
A41	La Crescenta Signal Synchronization: -La Crescenta Av: Orange Av to I-210 -Montrose Av: Florencita Av to Del Mar Rd -Oceanview Bl: I-210 to Florencita Av -Foothill Bl: Lowell Av to Briggs Av -Pennsylvania Av: Orange Av to 210 Fwy -Ramsdell Av: Orange Av to Montrose Av -Rosemont Av: Foothill Blvd to Montrose Av	Glendale, LA County	●	○	●	●	○	○	X		
A42	Glendale: Sub-Regional Traffic Management Center Implementation	Glendale	●	○	●	●	○	○	X		
A46	San Fernando: Upgrade traffic signals, video detection systems, and controllers on major corridors	San Fernando	●	○	○	○	○	○	X		
A43	Santa Clarita: Traffic Signal and Signal Synchronization	Santa Clarita	●	○	●	○	○	○	X		
A44	Santa Clarita: ITS Phases V and VI	Santa Clarita	●	○	●	○	○	○	X		
A45	Los Angeles: Vehicle Infrastructure Integration – to integrate navigation systems with Intelligent Transportation System (ITS)	LA	●	○	○	○	○	○	X	X	X
<b>Goods Movement</b>											
<b>Grade Crossing Safety Improvement Programs</b>											
G1	Improvements to at-grade rail crossings across subregion to better accommodate truck turning radii and grades	Subregional	○	●	○	●	●	●	X	X	X
<b>Arterial Programs</b>											
G2	Improvements to intersections across subregion to better accommodate truck turning radii and grades	Subregional	○	●	○	●	○	●	X	X	X
<b>Rail Programs</b>											
G3	Improvements to railroads across subregion to better accommodate freight trains without affecting passenger rail service	Subregional	●	●	●	●	○	●	X	X	X

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<b>Highways</b>											
<b>Arterial Interchange Programs/Projects</b>											
H1	SR-134 Ramp Widening program in Glendale: - EB&WB off-ramps at Pacific Ave: add a lane - EB off-ramp at Central Ave - WB off-ramp at Brand Blvd: add a lane - WB on- and off-ramp at Harvey Dr: add BRT stop	Glendale, Caltrans	●	○	◐	◐	◐	◐		X	
H42	Regional: Upgrade traffic signal system at on- & off-ramp intersections with arterials, connect with ramp metering system, establish communication with fiber system and upgrade communication of Field Device to IP.	Subregional	●	○	◐	◐	○	◐		X	X
H44	I-210 Interchange Improvement Program in La Crescenta-Montrose: - Modify traffic signals & channelization, add WB on-ramp at La Crescenta Ave - Modify intersection & signals to improve SB to EB move at Pennsylvania Ave	Glendale, LA County, Caltrans	●	○	○	○	○	○		X	
H4	SR-134/Central Ave: Grade separate EB and WB on- and off-ramps between Pacific Ave and Central Ave	Glendale, Caltrans	●	○	○	◐	○	◐		X	
H5	SR-2/Mountain St: Widen NB off-ramp and SB on- and off-ramps	Glendale, Caltrans	●	○	◐	◐	○	◐	X		
H6	SR-2/Fern Ln: Add NB Off/On Ramp	Glendale, Caltrans	●	○	◐	◐	○	◐		X	
H7	SR-2/Holly Dr: Add signals at ramps	Glendale	●	○	○	○	○	○	X		
H8	US-101/Hayvenhurst Ave: Add new WB on-ramp and EB off-ramp	LA, Caltrans	●	○	○	○	○	◐		X	X
H9	I-5/Roxford St: Widen Roxford at I-5 to facilitate truck movements	LA, Caltrans	●	○	○	◐	○	◐	X	X	X
H10	US-101/Coldwater Canyon Ave: Widen Coldwater Cyn bridge to provide dual left-turns to two on-ramps	LA, Caltrans	●	○	○	○	○	◐			X
H11	SR-170/Riverside Dr: Widen Riverside Dr to provide double right turns onto SB Tujunga Av	LA, Caltrans	●	○	○	○	○	◐		X	X
H12	US-101/Canoga: Add new WB on-ramp and new EB off-ramp	LA, Caltrans	●	○	○	○	○	◐			X
H13	US-101/Fallbrook Ave: Add on- and off-ramps	LA, Caltrans	●	○	○	○	○	◐		X	X

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<b>Highways cont.</b>												
<b>Arterial Interchange Programs/Projects cont.</b>												
H14	US-101/Canoga Ave: Widen Canoga under the freeway overpass to full standard width	LA, Caltrans	●	○	○	○	○	○			X	X
H15	US-101/Canoga Ave: Construct HOV lane connector from 101 Fwy to Metro Orange Line	LA, Caltrans	●	○	○	○	○	○			X	X
H16	I-405/Oxnard St: Build a interchange for I-405 (include Metro Orange Line to HOV connection)	LA, Caltrans	●	○	○	○	○	○			X	X
H17	SR-134: EB & WB Off-ramp improvements at Glendale Avenue	Glendale	●	○	○	○	○	○	X			
H40	I-405/Burbank Blvd: Increase left turn capacity on SB on-ramp	LA, Caltrans	●	○	○	○	○	○			X	X
H41	I-405/Sepulveda Blvd: Study closing SB on-ramp to reduce congestion at Sepulveda Blvd and Ventura Blvd	LA, Caltrans	●	○	○	○	○	○			X	X
H45	I-5/Hollywood Way: Widen NB and SB off-ramps to Hollywood Way.	LA, Caltrans	●	○	○	○	○	○	X			
H46	NB 5/14 On from Sierra Highway/Foothill Blvd.: Construct roundabout interchange to replace signalized intersection.	LA, Caltrans	●	○	○	○	○	○				X
<b>Freeway Interchange Projects</b>												
H18	I-5/SR-134: Interchange improvements - Carpool to carpool transition, "missing" ramp	Burbank, Glendale, Caltrans	●	◐	◐	◐	○	◐				X
H19	US-101/SR-170/SR-134: Interchange improvements - complete two connectors	LA, Caltrans	●	◐	○	○	○	◐				X
H20	I-405/US-101: Interchange Improvements	LA, Caltrans	●	◐	○	○	○	◐			X	X
H21	I-5/I-405: Interchange Improvements	LA, Caltrans	●	◐	○	◐	○	◐			X	X
H22	I-5/I-210: Interchange Improvements - Additional lane on the connector from NB I-210 to NB I-5	LA, Caltrans	●	○	○	○	○	○			X	X
H23	I-5/SR-14/I-210: Modify/rebuild I-210 (EB) transition by braiding over the SR-14 southbound connector ramps	LA, Caltrans	●	○	○	○	○	○			X	X
<b>Freeway Corridor Projects</b>												
H24	SR-2: Add HOV lane between SR-134 and Glendale Blvd	Glendale, LA, Caltrans	●	○	◐	○	○	○			X	
H25	I-5: Add mixed flow, HOV and truck lanes between SR-14 and I-405	Santa Clarita, LA, LA County, Caltrans	●	○	○	◐	○	◐			X	X
H26	I-5: North Capacity Enhancements - Add truck lane and HOV lanes from Pico Canyon Rd to Kern County Line	Santa Clarita, LA County, Caltrans	●	◐	○	●	○	◐			X	X

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<b>Highways cont.</b>											
<b>Freeway Corridor Projects cont.</b>											
H27	SR-14: Widen to provide at least three mixed flow lanes and one HOV lane in each direction from I-5 to Ave L	Santa Clarita, LA County, Caltrans	●	○	—	○	○	○		X	X
H28	US-101: Add HOV lane between SR-27 and SR-2	LA, Caltrans	●	○	—	○	○	○			X
H29	US-101: Add one lane to existing roadway in each direction between SR-27 and the Ventura County line; project widens roadway from 4 to 5 lanes, which could generally be accommodated by restriping within the existing roadway cross-section	LA, LA County, Caltrans	●	—	○	○	○	○			X
H30	US-101: Add 2 lanes to existing roadway in each direction between SR-27 and the Ventura County Line; project widens roadway from 4 to 6 lanes, while aiming to minimize ROW acquisition and local circulation impacts	LA, LA County, Caltrans	●	—	○	○	○	○			X
H31	US-101: Add NB and SB auxiliary lane between Laurel Canyon Bl and Sepulveda Bl	LA, Caltrans	●	○	—	○	○	○			X
H32	US-101: Add NB and SB auxiliary lanes between Hayvenhurst Av and Valley Circle Bl	LA, Caltrans	●	○	—	○	○	○			X
H33	I-210: Add additional WB lane between SR-118 and Hubbard St	LA, Caltrans	●	○	○	○	○	○		X	X
H47	I-210 HOV lane from I-5 to SR-134/I-710	Glendale, LA, LA County, Caltrans	●	○	—	○	○	○			X
H48	I-5- Add HOV lane in both directions between SR-134 and I-110	LA, Caltrans	●	○	—	○	○	○		X	
H49	SR-2 - Additional SB lane between 134 and I-5	Glendale, Caltrans	●	○	—	○	○	○			X
<b>Soundwall Projects</b>											
H34	I-210: Add soundwalls - Pennsylvania Av to Waltonia Av	Glendale, LA County, Caltrans	○	○	◐	○	○	○	X		
H35	US-101: Add Retaining Wall on the Barham/Cahuenga Corridor Transportation Project - Phase IV	LA, Caltrans	○	○	◐	○	○	○	X	X	
<b>State of Good Repair/Safety Programs</b>											
H36	Highway State of Good Repair/Safety Programs	Subregional	◐	◐	◑	◐	○	●	X	X	X
H37	Renovation of Key Sections of the US-101	LA, Caltrans	◐	◐	◑	◐	○	●	X	X	X

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<b>Highways cont.</b>											
<b>TSM</b>											
H38	I-5/SR-14: Expand Freeway Service Patrol throughout North County subregion	LA County	●	●	○	○	○	○	X		
H39	Regional: Improve Ramp metering, CCTV cameras, CMS for freeways in subregion as needed	Subregional	●	○	○	○	○	○	X	X	
H43	Regional: Upgrade TMS: a) I-5: SR-118 to SR-14 (PM 39.3-45.6) b) US-101: I-5 to I-405 (PM 0.0-17.4) c) US-101: SR-27 to Ventura County Line (PM 25.3-38.19) d) SR-118: west of SR-27 to east of SR-210 (PM 0.0-14.8) e) SR-134: SR-170 to SR-210/SR-710 (PM 0.0-13.4) f) SR-170: SR-134 to I-5 (PM 14.5-20.5) g) I-405: south of US-101 to I-5 (PM 39.0-48.65) h) SR-2: SR-134 to SR-210 (PM 14.5-24.6) i) I-210: I-5 to SR-2 (PM 0.0-19.0) - Add CCTV & Comms j) I-5: TSM from SR-2 to SR-134	Subregional	●	●	○	○	○	○	X	X	
<b>Active Transportation</b>											
<b>Bicycle/Pedestrian Programs/Projects</b>											
B1	Burbank: Bicycle Master Plan projects	Burbank	●	●	●	○	●	○	X	X	X
B2	Glendale: Bicycle Transportation Plan projects (including Verdugo Wash bikeway and bridges over LA River)	Glendale	●	●	●	○	●	○		X	
B4	San Fernando: Bicycle Master Plan projects	San Fernando	●	●	●	○	●	○	X	X	
B5	Santa Clarita: Non-Motorized Transportation Plan Projects	Santa Clarita	●	●	●	●	●	○	X	X	
B6	Los Angeles: Bicycle Plan projects	LA	●	●	●	○	●	○	X	X	
B7	Improvements to bike/pedestrian bridges and tunnels over SR-134 -Bridges: Louise, Geneva, Concord, Columbus, Adams -Tunnel: Kenilworth	Glendale	●	●	●	○	●	○		X	
B11	Construction of Pedestrian & Bike on the Los Angeles River throughout SFV	LA	●	●	●	○	●	○	X	X	
B12	Bicycle access improvements to Larry Zarian Transportation Center, on Los Feliz Rd and Brand Blvd	Glendale	●	●	●	●	●	○	X		
<b>ADA Access</b>											
B3	Improvements to bus stop zones to meet ADA compliance	Glendale	○	●	○	○	●	○	X		



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			Reduce Travel Times Increase Reliability Improve System Connectivity	Improve Safety Reduce Mode Conflicts Improve Transit Safety/Security	Reduce GHG Emissions Improve Quality of Life Encourage Efficient Mode Share	Accommodate Goods Movement Reduce Number and Length of Trips Enhance Economic Output	Integrate Transit Hubs Serve Transit Dependent Populations Improve First/Last Mile Connections	Preserve Life of Facility or Equipment Reduce Goods Movement Impact Balance Maintenance & Rehabilitation	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs
<b>Active Transportation cont.</b>											
<b>Pedestrian Bridges</b>											
B8	Hollywood Way/San Fernando Rd Metrolink station pedestrian bridge	Burbank, Bob Hope Airport	○	●	○	○	◐	○		X	
B9	Downtown Burbank Metrolink Station: Bike/Ped bridge over I-5	Burbank, Caltrans, Metrolink	◐	●	◐	○	◐	○		X	
B10	Downtown Burbank Metrolink Station: Pedestrian grade crossing improvements	Burbank, Caltrans, Metrolink	○	●	○	○	◐	○	X		
<b>Complete Streets Programs</b>											
B13	Los Angeles: Great Streets program	LA	○	◐	◐	●	●	○	X	X	X
B14	Cerritos Ave Complete and Green Streets Project. Connect LZTC to Glendale Memorial, Cerritos Park/School, Forest Lawn. Improve bike infrastructure, lighting, wayfinding, etc.	Glendale	◐	●	◐	◐	●	○	X		
<b>Sustainability Programs</b>											
B15	Electric Vehicle charging stations in Public Parking Structures (potentially including photovoltaic panels)	Subregional	○	○	●	○	○	○	X	X	
B17	Glendale: CNG Station and Maintenance Facility for Glendale Beeline Transit Services (potentially shared with Burbank Bus)	Burbank, Glendale	○	○	●	○	○	◐	X		
<b>Park and Ride Projects/Programs</b>											
B18	Regional: Add/expand park-and-ride facilities	Subregional	◐	○	◐	◐	◐	◐	X	X	
B20	Newhall Avenue / SR-14 Park-and-Ride: Expand	Santa Clarita, Caltrans	◐	○	◐	◐	◐	◐	X		
B21	Harvey Dr / SR-134 Park-and-Ride: Expand	Glendale	◐	○	◐	◐	◐	◐		X	
<b>TDM Programs</b>											
B19	Regional: TDM programs to reduce trips	Subregional	◐	○	●	●	◐	○	X	X	
<b>Mobility Hubs/First-Last Mile Programs</b>											
B22	Regional: Mobility hubs at major San Fernando Valley transit hubs (bike share, car share, bike stations, etc)	Subregional	●	○	●	○	●	○	X	X	X
B23	Regional: First-mile-last-mile improvements near major San Fernando Valley transit hubs	Subregional	●	◐	●	○	●	○	X	X	X

Metro Subregional Mobility Matrix  
San Fernando Valley

Project Detail Matrix  
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ID	Project Description	Agency	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair	Categorization Timeframe		
			<ul style="list-style-type: none"> <li>Reduce Travel Times</li> <li>Increase Reliability</li> <li>Improve System Connectivity</li> </ul>	<ul style="list-style-type: none"> <li>Improve Safety</li> <li>Reduce Mode Conflicts</li> <li>Improve Transit Safety/Security</li> </ul>	<ul style="list-style-type: none"> <li>Reduce GHG Emissions</li> <li>Improve Quality of Life</li> <li>Encourage Efficient Mode Share</li> </ul>	<ul style="list-style-type: none"> <li>Accommodate Goods Movement</li> <li>Reduce Number and Length of Trips</li> <li>Enhance Economic Output</li> </ul>	<ul style="list-style-type: none"> <li>Integrate Transit Modes</li> <li>Serve Transit Dependent Populations</li> <li>Improve First/Last Mile Connections</li> </ul>	<ul style="list-style-type: none"> <li>Preserve Life of Facility or Equipment</li> <li>Reduce Goods Movement Impact</li> <li>Balance Maintenance &amp; Rehabilitation</li> </ul>	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs
<b>Transit</b>											
<b>Bus Programs/Projects</b>											
T1	Metro: Existing bus route improvements	Subregional	●	○	◐	○	●	○	X	X	X
T2	Metrolink Station Shuttle Buses: Expand service	Subregional	●	○	◐	○	◐	○	X		
T3	I-5 / SR-14: Expanded express bus service in HOV lanes	Burbank, Glendale, Santa Clarita, LA, LA County	●	○	◐	◐	◐	○	X		
T4	Municipal Operators: Add late night and weekend municipal bus service	Burbank, Glendale, San Fernando, Santa Clarita,	●	○	◐	○	●	○	X		
T5	Municipal Operators: Operating dollars for expanded service	Burbank, Glendale, San Fernando, Santa Clarita,	●	○	◐	○	●	○	X	X	X
T6	Burbank: All day Burbank Bus service on selected routes	Burbank	●	○	◐	○	◐	○	X		
T7	Glendale: Increase bus service and improve frequencies for Glendale Beeline Transit Services	Glendale	●	○	◐	◐	◐	○	X		
T8	Santa Clarita Transit: Increase frequency on existing express routes	Santa Clarita, LA, LA County	●	○	◐	◐	◐	○	X		
T9	Santa Clarita: Improve SCT service between Santa Clarita and San Fernando Valleys (headways, additional stops, etc)	Santa Clarita	●	○	◐	○	◐	○	X		
T10	Sepulveda Pass: Increase express bus service over Sepulveda Pass, with collector/feeder service throughout West LA and the San Fernando Valley	LA	●	○	◐	◐	◐	○	X		
T11	Los Angeles: 10 new DASH routes citywide	LA	●	○	◐	○	●	○	X	X	
T31	San Fernando: Public transit improvements, including upgrading bus stop infrastructure and enhancing routes and connections	San Fernando	●	○	◐	○	●	○	X	X	
T15	Glendale: Provide east-west transit service on Foothill Blvd to provide one-seat ride from Sunland to La Canada Flintridge	Glendale, Metrolink	●	○	◐	○	◐	○		X	
T32	Improved regional transit connection between Las Virgenes area, Thousand Oaks and San Fernando Valley along US-101 corridor	LA	●	○	◐	○	●	○	X	X	

Metro Subregional Mobility Matrix  
San Fernando Valley

Project Detail Matrix  
Draft Final to PDT

ID	Project Description	Agency	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair	Categorization Timeframe		
			<ul style="list-style-type: none"> <li>•Reduce Travel Times</li> <li>•Increase Reliability</li> <li>•Improve System Connectivity</li> </ul>	<ul style="list-style-type: none"> <li>•Improve Safety</li> <li>•Reduce Mode Conflicts</li> <li>•Improve Transit Safety/Security</li> </ul>	<ul style="list-style-type: none"> <li>•Reduce GHG Emissions</li> <li>•Improve Quality of Life</li> <li>•Encourage Efficient Mode Share</li> </ul>	<ul style="list-style-type: none"> <li>•Accommodate Goods Movement</li> <li>•Reduce Number and Length of Trips</li> <li>•Enhance Economic Output</li> </ul>	<ul style="list-style-type: none"> <li>•Integrate Transit Hubs</li> <li>•Serve Transit Dependent Populations</li> <li>•Improve First/Last Mile Connections</li> </ul>	<ul style="list-style-type: none"> <li>•Preserve Life of Facility or Equipment</li> <li>•Reduce Goods Movement Impact</li> <li>•Balance Maintenance &amp; Rehabilitation</li> </ul>	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs
<b>Transit cont.</b>											
<b>BRT Projects</b>											
T13	Burbank to Hollywood BRT: Downtown Burbank to Hollywood via Burbank Media District & Universal City*	Burbank, LA County	●	○	●	●	●	○		X	X
T14	Pasadena to North Hollywood BRT: Via SR-134 through Glendale & Burbank*	Burbank, Glendale, LA, Caltrans	●	○	●	●	●	○		X	X
T16	Metro Orange Line: Bus operational improvements (grade separations, etc)	LA	●	●	●	●	●	○		X	X
<b>Commuter Rail Programs</b>											
T17	Metrolink Antelope Valley Line Improvements (various)	Subregional	●	●	●	●	○	●	X	X	X
T18	Metrolink Ventura County Line Improvements (various)	Subregional	●	●	●	●	○	●	X	X	X
<b>Real-Time Travel Information</b>											
T19	Real-time transit info for municipal bus operators, Metrolink, airport and other info	Subregional	●	●	●	○	●	○	X		
<b>Rail Projects</b>											
T23	Metro Red Line Extension: North Hollywood to Sylmar*	San Fernando, LA	●	○	●	●	●	○		X	X
T24	Glendale Downtown Streetcar: Brand Blvd from Colorado Blvd to Glenoaks Blvd	Glendale	●	○	●	●	●	○		X	
T25	Metro Orange Line conversion to LRT	LA	●	○	●	●	●	○		X	X
<b>Rail or Bus Projects</b>											
T26	Sepulveda Pass Transit Corridor - Consider multimodal tunnel(s) carrying premium transit and tolled highway lanes. P3 being considered.	LA	●	●	●	●	●	○		X	X
T27	East San Fernando Valley Transit Corridor - Currently in environmental phase, examining BRT, Tram, LRT Alternatives	San Fernando, LA	●	●	●	●	●	○		X	X
<b>State of Good Repair/Safety Programs</b>											
T28	Transit State of Good Repair/Safety Programs	Subregional	●	●	●	○	○	●		X	X
<b>Transit Center</b>											
T29	Glendale: Expand Larry Zanin Transportation Center	Glendale, Metrolink	○	○	●	○	●	○		X	
T30	Vista Canyon Transit Center: New Metrolink Station, Bus Transfer Facility	Santa Clarita, Metrolink	●	●	●	●	●	○	X		

**Metro Subregional Mobility Matrix  
San Fernando Valley**

**Project Detail Matrix  
Draft Final to PDT**

ID	Project Description	Agency	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair	Categorization Timeframe		
			-Reduce Travel Time -Increase Reliability -Improve System Connectivity	-Improve Safety -Reduce Mode Conflicts -Improve Transit Safety/Security	-Reduce GHG Emissions -Improve Quality of Life -Encourage Efficient Mode Share	-Accommodate Goods Movement -Reduce Number and Length of Trips -Enhance Economic Output	-Integrate Transit Hub -Serve Transit Dependent Populations -Improve First/Last Mile Connections	-Preserve Life of Facility or Equipment -Reduce Goods Movement Impact -Balance Maintenance & Rehabilitation	Short 1-10 yrs	Mid 11-20 yrs	Long 21+ yrs
<b>Regional Facilities</b>											
A5	Clybourn Ave: Grade separation at railroad tracks / Vanowen St / Empire Ave	Burbank, Bob Hope Airport, LA, Metrolink	●	●	◐	◐	○	◐		X	
A25	Hollywood Way: Widen to 6 lanes from Thornton Ave to Glenoaks Blvd	Burbank, Bob Hope Airport	◐	○	○	○	○	◐		X	
H2	I-5/Buena Vista Ave: Reconfigure ramps and connect with Winona Ave	Burbank, Caltrans, Metrolink	●	○	○	○	○	◐		X	
B8	Hollywood Way/San Fernando Rd Metrolink station pedestrian bridge	Burbank, Bob Hope Airport	○	●	○	○	◐	○		X	
B16	Burbank Airport: CNG Refueling Station	Burbank, Bob Hope Airport	○	○	●	○	○	○		X	
T12	Metro Orange Line Extension: North Hollywood to Bob Hope Airport	Burbank, Bob Hope Airport, LA	●	○	●	●	●	○		X	X
T20	Burbank/Glendale LRT: From LA Union Station to Burbank Airport via Antelope Valley Line corridor*	Burbank, Bob Hope Airport, Glendale, LA, Metrolink	●	◐	●	◐	●	○		X	X
T21	Pasadena to Burbank Airport LRT: Via SR-134 / I-5 through Glendale & Burbank*	Burbank, Bob Hope Airport, Glendale	◐	◐	◐	◐	◐	○		X	X
T22	Metro Red Line Extension: North Hollywood to Burbank Airport*	Burbank, Bob Hope Airport, LA	◐	◐	◐	◐	◐	○		X	X

\* Costs exclude right-of-way, vehicles, finance changes, and operation and maintenance.

**Changes since PDT Meeting #5 (2/9/15):**

**Santa Clarita input:**

Project A14 should not include Metrolink  
Project A47 should remove Santa Clarita and add City of LA and LA County.

**Bob Hope Airport Input:**

Project H2 is related to access to a potential new Airport Terminal, and should be moved to the Regional Facilities Program  
Project B16 is listed twice. It should only be listed in the Regional Facilities program



2f. San Gabriel Valley



## **2f. San Gabriel Valley**

- 1. Detailed Cost Estimate Ranges**
- 2. Summary of Cost Estimates and Categorizations**
- 3. Performance Evaluations**
- 4. Project Descriptions**





## **San Gabriel Valley**

### **1. Detailed Cost Estimate Ranges**

**Table Error! No text of specified style in document.-1. San Gabriel Valley Mobility Matrix Program Cost Estimates and Categorizations**

San Gabriel Valley Mobility Matrix Projects & Programs	Total Projects	Projects with Estimated Costs	Projects with Original Costs	Short Term Cost (Thousands) (0 to 10 Years)		Mid Term Cost (Thousands) (11 to 20 Years)		Long Term (Thousands) (20 plus Years)	
				Low	High	Low	High	Low	High
<b>Active Transportation Program</b>	75	75	55	\$371,000	\$552,000	\$371,000	\$552,000	\$371,000	\$552,000
Active Transportation Program	75	75	55	\$371,000	\$552,000	\$371,000	\$552,000	\$371,000	\$552,000
<b>Demand-Based Program</b>	21	21	15	\$170,000	\$255,000	\$639,000	\$959,000	\$2,050,000	\$3,085,000
Park-and-Ride/Station Access Program	12	12	6	\$90,000	\$135,000	\$90,000	\$135,000	\$90,000	\$135,000
I-10 to I-605 Carpool Lane connectors	1	1	1	\$-	\$-	\$217,000	\$326,000	\$-	\$-
SR 60 to I-605 Carpool Lane Connectors	1	1	1	\$-	\$-	\$252,000	\$378,000	\$-	\$-
I-605 Carpool Lanes: I-10 to I-210	1	1	1	\$-	\$-	\$-	\$-	\$260,000	\$390,000
SR 57 Carpool Lanes: SR 60 to I-210	1	1	1	\$80,000	\$120,000	\$80,000	\$120,000	\$-	\$-
SR 60 Carpool Lanes: U.S. 101 to I-605	1	1	1	\$-	\$-	\$-	\$-	\$480,000	\$720,000
Long-Term Managed Lane Program	4	4	4	\$-	\$-	\$-	\$-	\$1,220,000	\$1,840,000
<b>Goods Movement Program</b>	1	1	1	\$56,000	\$84,000	\$-	\$-	\$-	\$-
Alameda Corridor East Project	1	1	1	\$56,000	\$84,000	\$-	\$-	\$-	\$-
<b>ITS Program</b>	62	62	52	\$224,000	\$327,000	\$228,560	\$333,700	\$225,250	\$330,750
I-210 Connected Corridors Project	2	2	2	\$-	\$-	\$4,560	\$6,700	\$1,250	\$3,750
Arterial ITS Program	51	51	42	\$102,000	\$153,000	\$102,000	\$153,000	\$102,000	\$153,000
Highway ITS Program	9	9	8	\$122,000	\$174,000	\$122,000	\$174,000	\$122,000	\$174,000
<b>Modal Connectivity Program</b>	14	10	8	\$52,000	\$75,900	\$52,000	\$75,900	\$52,000	\$75,900
Complete Streets Program	6	6	5	\$39,800	\$57,700	\$39,800	\$57,700	\$39,800	\$57,700
First/Last Mile Program	4	4	3	\$12,200	\$18,200	\$12,200	\$18,200	\$12,200	\$18,200
Multi-Modal Corridor Program	4	0	0	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
<b>Soundwall Program</b>	3	3	2	\$16,550	\$24,850	\$16,550	\$24,850	\$-	\$-
Highway Soundwalls	3	3	2	\$16,550	\$24,850	\$16,550	\$24,850	\$-	\$-
<b>State of Good Repair Program</b>	29	29	27	\$199,000	\$298,000	\$199,000	\$298,000	\$199,000	\$298,000
State of Good Repair	29	29	27	\$199,000	\$298,000	\$199,000	\$298,000	\$199,000	\$298,000
<b>System Efficiency Program</b>	71	67	47	\$1,324,000	\$1,979,000	\$1,674,000	\$7,856,000	\$924,000	\$1,378,000
I-10/I-605 Interchange Improvements	1	1	1	\$28,400	\$42,600	\$28,400	\$42,600	\$-	\$-
I-10 Improvement: I-605 to Durfee Avenue	1	1	1	\$-	\$-	\$87,000	\$130,000	\$-	\$-

San Gabriel Valley Mobility Matrix Projects & Programs	Total Projects	Projects with Estimate d Costs	Projects with Original Costs	Short Term Cost (Thousands) (0 to 10 Years)		Mid Term Cost (Thousands) (11 to 20 Years)		Long Term (Thousands) (20 plus Years)	
				Low	High	Low	High	Low	High
				SR 60/I-605 Interchange Improvements	1	1	1	\$-	\$-
SR 60/SR 57 Interchange Improvements	1	1	1	\$190,000	\$285,000	\$190,000	\$285,000	\$-	\$-
SR 71 Highway to Freeway Project	2	2	2	\$170,000	\$255,000	\$170,000	\$255,000	\$-	\$-
SR 710 North Gap Closure Project*	1	1	1	\$-	\$-	\$50,000	\$5,430,000	\$-	\$-
I-10 Hotspots	1	1	1	\$-	\$-	\$60,000	\$90,000	\$-	\$-
SR 60 Hotspots	1	1	1	\$-	\$-	\$60,000	\$90,000	\$-	\$-
Arterial Capacity Enhancement Program	13	13	8	\$215,000	\$319,000	\$215,000	\$319,000	\$215,000	\$319,000
Arterial TSM Program	17	17	12	\$178,000	\$266,000	\$178,000	\$266,000	\$178,000	\$266,000
Grade Crossing Program	5	5	4	\$11,000	\$19,000	\$-	\$-	\$-	\$-
Highway Capacity Enhancement Program	5	5	4	\$81,100	\$122,000	\$81,100	\$122,000	\$81,100	\$122,000
Highway Ramps and Interchanges Program	17	17	10	\$449,000	\$669,000	\$449,000	\$669,000	\$449,000	\$669,000
Highway TSM Program	5	1	0	\$1,120	\$1,680	\$1,120	\$1,680	\$1,120	\$1,680
<b>Transit Programs</b>	<b>98</b>	<b>93</b>	<b>85</b>	<b>\$1,430,000</b>	<b>\$2,179,500</b>	<b>\$1,805,000</b>	<b>\$5,143,000</b>	<b>\$595,000</b>	<b>\$3,274,000</b>
Metro Gold Line Eastside Extension	1	1	1	\$-	\$-	\$1,150,000	\$1,720,000	\$-	\$-
Metro Gold Line Foothill Extension – Phase 2B**	1	1	1	\$716,000	\$1,070,000	\$-	\$-	\$-	\$-
SR 134 High Capacity Transit Corridor***	1	1	0	\$-	\$-	\$65,000	\$2,500,000	\$65,000	\$2,500,000
Bus Expansion Program	9	9	2	\$123,000	\$162,000	\$123,000	\$162,000	\$81,800	\$108,000
Bus Rapid Transit Program	7	2	1	\$9,190	\$73,500	\$9,190	\$73,500	\$-	\$-
Metrolink Enhancement Program	66	66	66	\$417,000	\$626,000	\$293,000	\$439,000	\$242,000	\$364,000
Transit Operations Program	13	13	13	\$165,000	\$248,000	\$165,000	\$248,000	\$165,000	\$248,000
<b>Total</b>	<b>374</b>	<b>360</b>	<b>291</b>	<b>\$3,842,000</b>	<b>\$5,776,000</b>	<b>\$4,985,000</b>	<b>\$15,242,000</b>	<b>\$4,416,000</b>	<b>\$8,993,000</b>

Notes: Estimated costs in 2015 dollars. Refer to Appendix B for a detailed explanation of the cost estimating process.

These estimates under-represent the operations and maintenance costs due to limitations of data availability. Costs are also underestimated due to projects and programs where cost estimate ranges are still under development.

Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. The cost sharing will be determined as part of future efforts.

\*SR-710 Project cost estimate based on low range for the transit (BRT) and high range for the highway tunnel of the alternatives still under consideration

\*\*Metro Gold Line Foothill – Phase 2B costs based on unfunded cost estimate

\*\*\* SR 134 High Capacity Transit Corridor cost range based on bus rapid transit (low estimate) and light rail transit (high estimate)



## **San Gabriel Valley**

### **2. Summary of Cost Estimates and Categorizations**

**Table Error! No text of specified style in document.-2. San Gabriel Valley Mobility Matrix Summary of Rough Order of Magnitude Cost Estimates and Categorizations**

Type/ Category	Arterial	Goods Movement	Highway	Active Transportation	Transit	Multi-Modal	Total
Short-Term (0-10 yrs)	115 Projects \$705M to \$1.06B	1 Project \$56M to \$84M	41 Projects \$1.14B to \$1.69B/TBD	75 Projects \$371M to \$552M	85 projects \$1.43B to \$2.18B	26 Projects \$142M to \$210M	343 Projects \$3.84B to \$5.76B
Mid-Term (11-20 yrs)	1 projects/TBD \$699M to \$1.04B	\$0	15 Projects \$1.92B to \$8.29B	TBD Projects \$371M to \$552M	8 projects/TBD \$1.81B to \$7.74B	TBD Projects \$142M to \$210M	24 Projects \$4.98B to \$15.24B
Long-Term (>20 yrs)	1 projects/TBD \$695M to \$1.04B	\$0	6 Projects \$2.61B to \$3.92B	TBD Projects \$371M to \$552M	6 project/TBD \$595M to \$3.27B	TBD Projects \$142M to \$210M	13 Projects \$4.42B to \$8.99B
<b>Total</b>	117 Projects/TBD \$2.10B to \$3.14B	1 Project \$56M to \$84M	57 Projects \$5.67B to \$13.9B	75 Projects/TBD \$1.11B to \$1.66B	98 projects/TBD \$3.83B to \$13.20B	26 Projects/TBD \$426 M to \$633 M	374 Projects \$13.2B to \$30.0B

Estimated costs in 2015 dollars.

TBD for project costs indicates the cost estimation is under development or there was not enough information to estimate one or more subprograms under this project type.

Programs that are ongoing, such as State of Good Repair and Bicycle/Pedestrian, are counted in each timeframe. The total value of these programs is based on the cost estimates of the projects within the programs that were available. Many of these programs have not yet identified projects for outer years so the values of the programs for the mid- and long-term categories are based on the same levels of funding as the short term.

The counts by time period for Highway projects and Transit projects do not sum to total because five Highway and one Transit projects are being phased and are included in two time periods.

Maximum total project costs for Highway and Transit each include the high estimate for the SR-710 North project.

These estimates underrepresent the operations and maintenance costs due to limitations of data availability. Costs are also underestimated due to projects and programs where cost estimate ranges are still under development.

Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. The cost sharing will be determined as part of future efforts.

# **San Gabriel Valley**

## **3. Performance Evaluations**

**Table 4-2. Performance Evaluation – Summary by Subprogram**

San Gabriel Valley Mobility Matrix Projects & Programs	Number of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		*Improve mobility & reduce congestion *Minimize vehicular & truck impacts *Reduce bus & rail transit congestion *Develop first/last mile strategies *Reduce congestion caused by goods movement	*Increase pedestrian & bicyclist safety *Increase transit user safety *Increase rail & roadway safety	*Prepare for extreme weather events *Improve air quality and reduce GHG emissions *Improve public health and reduce obesity *Improve quality of life *Conserve water and manage storm water	*Improve goods movement infrastructure *Improve access to jobs *Reduce travel time for workers and goods *Provide infrastructure to attract new business *Promote development at station areas & corridors	*Improve transit, bike, ped access to activity centers *Provide access to transit-dependent populations *Increase bike/pedestrian access to transit *Compliance with ADA at transit stations and stops	*Maintain safe & reliable mobility *Minimize rehabilitation & reconstruction costs
<b>Active Transportation</b>	<b>75</b>						
Active Transportation Program	75	●	●	●	●	●	●
<b>Demand Based Program</b>	<b>21</b>						
Park-and-Ride/Station Access Program	12	●	●	●	●	●	○
I-10 to I-605 Carpool Lane connectors	1	●	●	●	○	○	○
SR-60 to I-605 Carpool Lane Connectors	1	●	●	●	○	○	○
I-605 Carpool Lanes: I-10 to I-210	1	●	●	●	●	○	●
SR-57 Carpool Lanes: SR-60 to I-210	1	●	●	●	○	○	○
SR-60 Carpool Lanes: US-101 to I-605	1	●	●	●	●	○	○
Long-Term Managed Lane Program	4	●	●	●	○	○	○
<b>Goods Movement Program</b>	<b>1</b>						
Alameda Corridor East Project	1	●	●	●	●	○	●

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**



San Gabriel Valley Mobility Matrix Projects & Programs	Number of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		*Improve mobility & reduce congestion *Minimize vehicular & truck impacts *Reduce bus & rail transit congestion *Develop first/last mile strategies *Reduce congestion caused by goods movement	*Increase pedestrian & bicyclist safety *Increase transit user safety *Increase rail & roadway safety	*Prepare for extreme weather events *Improve air quality and reduce GHG emissions *Improve public health and reduce obesity *Improve quality of life *Conserve water and manage storm water	*Improve goods movement infrastructure *Improve access to jobs *Reduce travel time for workers and goods *Provide infrastructure to attract new business *Promote development at station areas & corridors	*Improve transit, bike, ped access to activity centers *Provide access to transit-dependent populations *Increase bike/pedestrian access to transit *Compliance with ADA at transit stations and stops	*Maintain safe & reliable mobility *Minimize rehabilitation & reconstruction costs
<b>ITS Program</b>	<b>62</b>						
I-210 Connected Corridors Project	2	●	○	○	○	○	○
Arterial ITS Program	51	○	○	○	○	○	○
Highway ITS Program	9	○	○	○	○	○	○
<b>Modal Connectivity Program</b>	<b>14</b>						
Complete Streets Program	6	○	○	●	○	●	○
First/Last Mile Program	4	●	○	●	○	●	○
Multi-Modal Corridor Program	4	○	○	○	○	●	○
<b>Soundwall Program</b>	<b>3</b>						
Highway Soundwalls	3	○	○	○	○	○	○
<b>State of Good Repair Program</b>	<b>29</b>						
State of Good Repair Program	29	○	○	○	○	○	●

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

San Gabriel Valley Mobility Matrix Projects & Programs	Number of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		*Improve mobility & reduce congestion *Minimize vehicular & truck impacts *Reduce bus & rail transit congestion *Develop first/last mile strategies *Reduce congestion caused by goods movement	*Increase pedestrian & bicyclist safety *Increase transit user safety *Increase rail & roadway safety	*Prepare for extreme weather events *Improve air quality and reduce GHG emissions *Improve public health and reduce obesity *Improve quality of life *Conserve water and manage storm water	*Improve goods movement infrastructure *Improve access to jobs *Reduce travel time for workers and goods *Provide infrastructure to attract new business *Promote development at station areas & corridors	*Improve transit, bike, ped access to activity centers *Provide access to transit-dependent populations *Increase bike/pedestrian access to transit *Compliance with ADA at transit stations and stops	*Maintain safe & reliable mobility *Minimize rehabilitation & reconstruction costs
<b>System Efficiency Program</b>	<b>71</b>						
I-10/I-605 Interchange Improvements	1	●	◐	○	◐	○	◐
I-10 Improvement: I-605 to Durfee Avenue	1	●	◐	○	○	○	◐
SR-60/I-605 Interchange Improvements	1	●	◐	○	◐	○	◐
SR-60/SR-57 Interchange Improvements	1	●	◐	○	◐	○	◐
SR-71 Highway to Freeway Project	2	●	◐	◐	◐	○	◐
SR-710 North Gap Closure Project*	1	●	◐	◐	◐	◐	◐
I-10 Hotspots	1	●	◐	○	◐	○	◐
SR-60 Hotspots	1	●	◐	○	◐	○	◐
Arterial Capacity Enhancement Program	13	●	◐	○	◐	○	◐
Arterial TSM Program	17	◐	◐	◐	◐	○	◐
Grade Crossing Program	5	●	●	◐	◐	○	○
Highway Capacity Enhancement Program	5	●	◐	—	◐	○	◐
Highway Ramps and Interchanges Program	17	●	◐	○	◐	○	◐
Highway TSM Program	5	◐	◐	◐	◐	○	◐

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

San Gabriel Valley Mobility Matrix Projects & Programs	Number of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		*Improve mobility & reduce congestion *Minimize vehicular & truck impacts *Reduce bus & rail transit congestion *Develop first/last mile strategies *Reduce congestion caused by goods movement	*Increase pedestrian & bicyclist safety *Increase transit user safety *Increase rail & roadway safety	*Prepare for extreme weather events *Improve air quality and reduce GHG emissions *Improve public health and reduce obesity *Improve quality of life *Conserve water and manage storm water	*Improve goods movement infrastructure *Improve access to jobs *Reduce travel time for workers and goods *Provide infrastructure to attract new business *Promote development at station areas & corridors	*Improve transit, bike, ped access to activity centers *Provide access to transit-dependent populations *Increase bike/pedestrian access to transit *Compliance with ADA at transit stations and stops	*Maintain safe & reliable mobility *Minimize rehabilitation & reconstruction costs
<b>Transit Program</b>	<b>98</b>						
Metro Gold Line Eastside Extension	1	●	◐	●	◐	●	○
Metro Gold Line Foothill Extension - Phase 2B	1	●	◐	●	◐	●	○
SR-134 High Capacity Transit Corridor	1	●	◐	●	◐	●	○
Bus Expansion Program	9	◐	◐	◐	◐	◐	○
Bus Rapid Transit Program	7	●	◐	●	◐	●	○
Metrolink Enhancement Program	66	●	◐	●	◐	●	◐
Transit Operations Program	13	◐	◐	◐	○	◐	◐
<b>Total</b>	<b>374</b>						

● High Benefit   ◐ Medium Benefit   ◑ Low Benefit   ○ Neutral/No Benefit   — Negative Impact

\* The SR 710 North project was not evaluated on a single alternative, but rather evaluated based on the severity of the problem it is intending to solve. The various alignments and their impacts and benefits will be detailed in the forthcoming Environmental Impact Report.

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**



# **San Gabriel Valley**

## **4. Project Descriptions**

**APPENDIX C PROJECT DETAIL MATRIX**
**Table C-3. San Gabriel Valley Mobility Matrix – Project and Program List**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Active Transportation Program	Active Transportation Program	13	Arroyo Verdugo COG	Regionally significant local bicycle projects
		156	County of Los Angeles, San Gabriel Valley	I-10 – Install bike racks on buses along I-10 parallel arterials Corridor-wide
		157		San Gabriel River Bikeway- Arrow Highway Gap Closure
		158	City of Los Angeles	I-10 – Coordinate pedestrian, bicycle, and transit information and amenities corridor-wide
		161	County of Los Angeles	Big Dalton Wash Bike Path – Gladstone Avenue to Barranca Avenue; Class 1 Bike Path
		162	County of Los Angeles	Eaton Wash Channel Bike Path – Duarte Road to Rosemead Blvd; Class 1 Bike Path
		163	County of Los Angeles	Eaton Wash Channel – Del Mar Blvd to Duarte Road; Class 1 Bike Path
		164	County of Los Angeles	Eaton Wash Channel – New York Drive to Foothill Blvd; Class 1 Bike Path
		165	County of Los Angeles	Eaton Wash Channel – Rosemead Blvd to Temple City Blvd; Class 1 Bike Path
		166	County of Los Angeles	Eaton Wash Channel – Temple City Blvd to Rio Hondo Bikeway; Class 1 Bike Path
		167	County of Los Angeles	Emerald Necklace East-West Connectors; Quarry Clasp, Rush Street/Rio Hondo Bike Trail, San Gabriel Blvd/Rio Hondo Bike Trail Connectors; Class 1 Bike Path
		168	County of Los Angeles	Puente Creek Bike Path – Hacienda Blvd to Ringrove Ave; Class 1 Bike Path
		169	County of Los Angeles	Puente Creek – 7th Ave (San Jose Creek – to Temple Ave; Class 1 Bike Path
		170	County of Los Angeles	San Jose Creek – 7th Avenue (Industry) to Murchison Avenue (Pomona); Class 1 Bike Path
		172	County of Los Angeles	Santa Anita Wash – Longden Avenue to Live Oak Avenue; Class 1 Bike Path
		173	County of Los Angeles	Thompson Creek – Lockhaven Way to White Avenue; Class 1 Bike Path
		175	County of Los Angeles	Pedestrian Improvements; construct new sidewalks at locations where absent
		176	County of Los Angeles	San Jose Creek Bike Trail Phase 2B – Bike Trail Class 1 Facility/Connector between the San Gabriel River Bike Trail and the San Jose Creek Bike Trail
		179	County of Los Angeles	Amar Rd – Aileron Ave to Azusa Ave; Class 2 Bike Lanes
		180	County of Los Angeles	Amar Rd – Vineland Avenue to N. Puente Avenue; Class 2 Bike Lanes
181	County of Los Angeles	Amar Rd – Willow Avenue to N. Unruh Avenue; Class 2 Bike Lanes		
182	County of Los Angeles	Arrow Hwy – Glendora Av to Valley Center Blvd; Class 2 Bike Lanes		
183	County of Los Angeles	Azusa Ave – Colima Road to Glenfold Drive; Class 2 Bike Lanes		
184	County of Los Angeles	Colima Rd – Casino Drive to Allenton Avenue; Class 2 Bike Lanes		
185	County of Los Angeles	Colima Rd – Fairway Dr/Brea Cyn Cutoff Rd to Tierra Luna; Class 2 Bike Lanes		
186	County of Los Angeles	Colima Rd – Larkvane Rd to Brea Cyn Cutoff; Class 2 Bike Lanes		
187	County of Los Angeles	Colorado Boulevard - Kinneloa Avenue to Michillinda Avenue; Class 2 Bike Lanes		
188	County of Los Angeles	Duarte Road - Sultana Ave to Oak Avenue; Class 2 Bike Lanes		

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Active Transportation Program (continued)	Active Transportation Program (continued)	189	County of Los Angeles	Fullerton Rd - Colima Road to Pathfinder Road; Class 2 Bike Lanes
		190	County of Los Angeles	Gale Ave - 7th Ave to Stimson Ave; Class 2 Bike Lanes
		191	County of Los Angeles	Glendora Av - Arrow Hwy to Cienega Av; Class 2 Bike Lanes
		192	County of Los Angeles	Hacienda Blvd - N Community Boundary to Colima Rd; Class 2 Bike Lanes
		193	County of Los Angeles	Huntington Drive - San Gabriel Boulevard to Michillinda Avenue; Class 2 Bike Lanes
		194	County of Los Angeles	Local Bikeways; Class 2 & Class 3 Bikeways on Local Streets in San Gabriel Valley subregion
		195	County of Los Angeles	Pathfinder Rd - Fullerton Road to Canyon Ridge Rd; Class 2 Bike Lanes
		196	County of Los Angeles	Peck Road - San Gabriel River Path to Workman Mill Rd; Class 2 Bike Lanes
		197	County of Los Angeles	Rosemead Blvd - Colorado Boulevard to Callita Street; Class 2 Bike Lanes
		198	County of Los Angeles	San Gabriel Blvd - Delta Ave to Lincoln Ave; Class 2 Bike Lanes
		199	County of Los Angeles	Sunset Ave - Amar Road to Temple Avenue; Class 2 Bike Lanes
		200	County of Los Angeles	Sunset Ave - Fairgrove Avenue to Amar Road; Class 2 Bike Lanes
		201	County of Los Angeles	Various Major Highways; Class 3 Bike Routes. Construct on-street Class III bike routes on arterial & secondary highways
		202	County of Los Angeles	Workman Mill Road - San Jose Creek Bicycle Path to Oakman Dr; Class 2 Bike Lanes
		206	San Dimas, La Verne, Pomona, Claremont	San Gabriel Valley Regional Greenway Network Initiative
		245	Pasadena	Citywide Bicycle Transportation Plan projects
		251	Pasadena	Citywide Safe Route to School Projects
		253	Pomona	Bikeways and Pedestrian Improvements
		256	Temple City	Bicycle Master Plan Implementation: Installation of 12.6 Miles of Class II & III Bicycle Lanes throughout the City
		266	Arcadia	Arcadia Citywide Bicycle Program
		268	South Pasadena	Arroyo Seco Bicycle and Pedestrian Trail
		269	South Pasadena	Huntington Drive Bikeway
		274	San Gabriel	Alhambra Wash Channel: Ramona Street to Hovey Avenue; Class I Bike Path; 0.5 miles
		275	San Gabriel	Alhambra Wash Channel: Del Mar Ave to I-10 Freeway; Class I Bike Path; 0.4 mile
		276	San Gabriel	Rubio Wash Channel: Rose Avenue to Elm Avenue; Class I Bike Path; 0.8 mile
		277	San Gabriel	Rubio Wash Channel: San Gabriel Blvd to Valley Blvd; Class I Bike Path; 1.5 miles
		278	San Gabriel	Union Pacific Railroad Right-of-Way: West City Limits to East City Limits; Class I Bike Path; 2.2 miles (along north remnant of UPRR right-of-way following San Gabriel Trench grade separation project)
279	San Gabriel	Valley Boulevard: West City Limits to East City Limits; Class II Bike Lanes; 1.4 miles		
Active Transportation	Active Transportation Program (continued)	280	San Gabriel	Las Tunas Drive: West City Limits to San Gabriel Boulevard; Class II Bike Lanes; 1.3 miles

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Program (continued)		290	San Marino	San Marino Bicycle Plan Implementation Program
		291	South El Monte	Pedestrian improvements on Santa Anita Avenue, Tyler Ave, and portion of Rush (walkability)
		292	Sierra Madre	Orange Grove Blvd: Class II bike lanes from Michillinda Avenue to Santa Anita Avenue
		308		Emerald Necklace - Implement Phase 1 (Mixed-Use trails and additional bicycle paths not listed in project #167)
		309		San Gabriel River - Implement unfunded elements of San Gabriel River master plan
		312	County of Los Angeles	San Gabriel Valley Unincorporated Communities - Active Transportation Planning
		313	County of Los Angeles	Pedestrian Improvements: Construct new sidewalks
		316	Walnut	Pedestrian Enhancements - Install new sidewalk, curb ramps, high visibility crosswalks
		350	County of Los Angeles	Workman Mill Road. Class 2 Bike Lanes from San Jose Creek Bicycle Path to Strong Avenue
		357	Claremont	Monte Vista Avenue/Padua Avenue, (Mt. Baldy Road to Foothill Boulevard) Pedestrian and Bicycle facilities
		362	Claremont	Active Transportation Plan Implementation Program
		365	Covina	Hollenbeck Ave. 2.27 miles of Class II bicycle path
		366	Covina	Grand Avenue 2.15 miles of Class II bicycle path
		367	Covina	Puente St 1.26 miles of Class II and 1.51 miles of Class II bicycle path
		368	Covina	Rowland Ave 1.73 miles of Class II bicycle path
		369	Covina	Covina Blvd 3.76 miles of Class II bicycle path
		370	Covina	Glendora Ave 1.41 miles of Class II bicycle path
378	Industry	Class I bike path, along the southerly side of Valley Blvd, within the Union Pacific Railroad right of way, from Brea Canyon Road westerly to Glendora Avenue		
Demand Based Program	I-10 to I-605 Carpool Lane connectors	386	Baldwin Park, County of Los Angeles:	Route I-605 & I-10: Construct NB I-605 to EB I-10 HOV to HOV Direct Connector and Return Move. Construct SB I-605 to EB I-10 HOV to HOV Direct Connector and Return Move.
	I-605 Carpool Lanes: I-10 to I-210	29	SGVCOG	Highway - Carpool Lane Completion; I-605 Carpool Lanes in each direction along the I-605 Freeway from I-10 to the I-210
	Long-Term Managed Lane Program	389	Caltrans	HOV Lanes on I-210 from Rte 5 to Rte134
		390	Caltrans	Rte210/605 HOV Direct Connector
		391	Caltrans	Rte210/57 HOV Direct Connector)
392	Caltrans	HOV Lanes on I-710 from Rte5 to Rte10		

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**



Program	Subprogram	MM Project ID	Jurisdiction*	Description
Demand Based Program (continued)	Park-and-Ride/Station Access Program	159	City of Los Angeles	I-10 – Expansion of park-and-ride facilities Corridor-wide
		160	City of Los Angeles	I-10 – Promotion of ridesharing and TDM strategies Corridor-wide
		177	Pomona	Congestion Management Program
		178		SR-60 – Add/expand various park-and-ride lots from I-605 to San Bernardino County Line throughout SR-60 corridor
		211	Pomona	Parking Structure (Regional Transit)
		215		Construct multimodal station with Metrolink, Foothill Transit, HOV direct connection to Brea Canyon Station at various locations to be determined
		220	El Monte	El Monte Busway Transit Station- Rebuild to meet current and projected needs of transit commuters
		281	San Gabriel	Parking Structure (Transit): in the vicinity of Del Mar Ave & Valley Blvd
	Park-and-Ride/Station Access Program (continued)	321	La Verne	Parking Structure (Regional Transit)
		338	San Dimas	Park and Ride Lot of Approx. 55,000 sq. ft. - Monte Vista Ave and Railway Street (Surplus Metro ROW)
		363	Azuza, Industry, West Covina	Park-and-ride facilities (transit-oriented neighborhood program). 3 park-and-rides located in the Cities of Azusa, Industry, and West Covina
		373	Covina	Covina Metrolink Transit Station and South Platform Pedestrian Plaza
	SR-57 Carpool Lanes: SR-60 to I-210	24	SGVCOG	SR-57 Carpool Lanes: SR-60 to I-210
	SR-60 Carpool Lanes: US-101 to I-605	26	SGVCOG	SR-60 Carpool Lanes: US-101 to I-605
SR-60 to I-605 Carpool Lane connectors	385	Industry, County of Los Angeles	Route I-605 & SR-60: Construct NB I-605 to EB SR-60 HOV to HOV Direct Connector and Return Move. Construct SB I-605 to EB SR-60 HOV to HOV Direct Connector and Return Move.	
Goods Movement Program	Alameda Corridor East Project	17	SGVCOG	Alameda Corridor East - Phase II - Three unfunded grade separations
Intelligent Transportation Systems Program	Arterial ITS Program	4	Pasadena	Implementation of the City's ITS Master Plan including upgrades to the transportation management center, installation of fiber optic traffic signal interconnect, video cameras, a parking guidance system, and technology upgrades to the city's bus system. Corridor-wide.
		46	County of Los Angeles	San Gabriel Valley ITS Improvements
		51	Rosemead	I-10- Improve signal coordination along I-10 at City of Rosemead
		52	County of Los Angeles	Mountain Av - Foothill Bl to Duarte Rd
		53	County of Los Angeles	Rosemead Bl - Rush St to Telegraph Rd
		56	County of Los Angeles	Base Line Rd- Foothill Bl to County Line
		57	County of Los Angeles	Colorado St - Michillinda Av to Colorado Place
Intelligent Transportation	Arterial ITS Program (continued)	58	County of Los Angeles	Diamond Bar Bl/Mission Bl- Brea Canyon Rd to County Line
		59	County of Los Angeles	Huntington Dr - Fair Oaks Av to San Gabriel Blvd

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Systems Program (continued)		60	City of Los Angeles	I-10- Implement direction-based traffic signal coordination Corridor-wide
		61	County of Los Angeles	San Dimas Av - Foothill Bl to Via Verde
		65	El Monte, Rosemead	I-10- Implement signal coordination along I-10 near Santa Anita Race Track
		66	County of Los Angeles	Garfield Av - Pine St to Olympic Bl
		67	County of Los Angeles	Lone Hill Av - Route 66 to Covina Bl
		68	County of Los Angeles	Information Exchange Network Phase IV; Intelligent Transportation System
		81	County of Los Angeles	Amar Rd/Temple Av- Nogales St to Golden Springs Dr
		82	County of Los Angeles	Grand Av - Rowland St to Longview Dr
		89	City of Los Angeles	I-10- Corridor-wide – Install CCTV and other communications systems
		92	County of Los Angeles	Traffic Signal Improvements; Operational Upgrades. Modernize and upgrade traffic signals to improve operations and safety
		94	County of Los Angeles	Arroyo Parkway - Colorado Bl to Glenarm St
		95	County of Los Angeles	Mission Rd - Winchester Av to Santa Anita St
		97	County of Los Angeles	Barranca Av/Barranca St - Sierra Madre Av to Cameron Av
		98	County of Los Angeles	Colorado Bl - Orange Grove Bl to Michillinda Av
		99	County of Los Angeles	Duarte Rd - San Gabriel Bl to Highland Av
		100	County of Los Angeles	Fremont Av - Columbia St to Alhambra Road
		102	County of Los Angeles	Indian Hill Bl - American Av to Holt Av
		104	County of Los Angeles	Santa Anita Av - Foothill Bl to Durfee Av
		105	County of Los Angeles	Valley Bl - Temple City Bl to Durfee Av
		106	County of Los Angeles	White Av - Foothill Bl to Lexington Av
		112	County of Los Angeles	Atlantic Bl/Atlantic Av - Pine St to Pacific Coast Hwy
		113	County of Los Angeles	Baldwin Av - Foothill Bl to 10-Fwy
		114	County of Los Angeles	Citrus Av - Foothill Bl to Arrow Hwy
		115	County of Los Angeles	Garey Av - College Wy to 60 Fwy
		116	County of Los Angeles	Irwindale Av - Foothill Bl to Arrow Hwy
		118	County of Los Angeles	Temple City Bl - Duarte Rd to 10 Fwy
119	County of Los Angeles	Towne Av - Base Line Rd to 60 Fwy		
238	County of Los Angeles	Del Mar Avenue/Hill Drive - Hermosa Drive to San Gabriel Boulevard		
239	County of Los Angeles	Fair Oaks Avenue - Columbia Street to Huntington Drive		
242	County of Los Angeles	ITS System Operation		

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Intelligent Transportation Systems Program (continued)	Arterial ITS Program (continued)	246	Pasadena	Traffic Signal Preemption Systems
		265	Arcadia	Arcadia ITS Traffic Control System
		287	Glendora	Traffic Signal Improvements: Operational Upgrades
		305	Monrovia	Mountain Avenue and Royal Oaks Drive (installation of new poles with appropriate mast arms, wiring, conduits, pullbox, etc.)
		314	Walnut, Industry, County of Los Angeles	Traffic Signal at Carrey Road and Pierre Road
		315	City of Industry, LA Co, Walnut	Valley Bl - Install Traffic Signal at Bourdet Avenue
		317	City of Industry, LA Co, Walnut	Traffic Signal at Valley Boulevard and Suzanne Road
		324	La Verne	Installation of new and upgrade of existing traffic signals - various locations
		330	Duarte	Huntington Drive: Signal upgrades on Huntington Drive in Duarte
		334	San Dimas	Enhancement of existing Traffic Signal and Synchronization Improvements - Eastern to Western City Limits
		336	San Dimas	Signal synchronization, addition of detection cameras - All signals on Bonita
		337	San Dimas	Signal installation to improve congestion - Foothill Blvd/Walnut Ave
	Highway ITS Program	129	City of Los Angeles	I-10- Corridor-wide – Upgrade surveillance system throughout this segment of I-10
		295	Caltrans	Routes 2, 57, 60, 66, 71, and 110, Upgrade traffic signal system and install CCTV cameras
		296	Caltrans	In Los Angeles County, Monterey Park, Montebello, Rosemead, and South El Monte on Rte 60 from Route 710 to Route 605, PM 3.2/11.7, Upgrade Transportation Management System
		297	Caltrans	In Diamond Bar & Pomona, on Rte 60, from Rte 57 to SBd Co Line, PM 25.4/30.5, Install CCTV & Communications Systems
		300	Caltrans	In Pomona and Claremont on Route 10 from Route 57 to the San Bernardino County Line, PM 42.4/48.26, Upgrade Transportation Management System
		301	Caltrans	In Diamond Bar, Pomona, San Dimas, and Glendora on Route 57 from Orange County Line to Route 210, PM 0.0/11.9, Upgrade Transportation Management System
		302	Caltrans	In City of Industry, Baldwin Park and Irwindale on Route 605 from Route 60 to Route 210, PM 17.4/26.0, Upgrade Transportation Management System
		303	Caltrans	Routes 134 and 210, Upgrade traffic signal system and install CCTV cameras
304	Caltrans	In Alhambra from Ramona Blvd to Valley Blvd. on Rte 710, PM 26.4/27.475, Install CCTV & Communications Systems		

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description	
Intelligent Transportation Systems Program (continued)	I-210 Connected Corridors Project	243	Caltrans District 7, Pasadena, Arcadia, Monrovia, Duarte, County of Los Angeles	I-210 Connected Corridors Pilot (Phase 1) Rte 134 to Rte 605	
		332	Caltrans District 7, Irwindale, Azusa, Glendora, San Dimas, La Verne, and County of Los Angeles	I-210 Connected Corridors (Phase 2) Rte 605 to SR 57	
Modal Connectivity Program	Complete Streets Program	14	La Canada Flintridge	Downtown Village Complete Street Project - Foothill Boulevard between La Canada Boulevard to Gould Avenue.	
		207	County of Los Angeles	Aesthetics-Beautification; Construct landscaping, hardscaping, urban forestry improvements in rights of way of various streets	
		247	Pasadena	Complete Streets project - Washington Blvd: Lincoln Ave to Sierra Madre Blvd	
		267	South Pasadena	Redesign and construction of Monterey Road from Pasadena Ave to Fair Oaks Ave (Study and construction (road rehabilitation) of Monterey Road, including possible ADA requirements, road diet, bicycle lanes.	
		323	La Verne	Aesthetics-Beautification; Landscaping, Hardscaping, Urban Forestry	
		377	Pasadena	Complete Streets project - Orange Grove Blvd: Columbia St to Rosemead Bl/ E Foothill Bl	
Modal Connectivity Program (continued)	First/Last Mile Program	204	County of Los Angeles	Sierra Madre Villa Gold Line Transit Oriented District (TOD); Colorado Blvd, Rosemead Blvd, Del Mar Blvd, California Blvd, Madre St. ; Bicycle, Pedestrian, Transit Station Access Improvements	
		248	Pasadena	First Mile/Last Mile Projects within one mile of Pasadena Gold Line Light Rail Stations	
		322	La Verne	La Verne Gold Line Transit Oriented District (TOD); Bicycle, Pedestrian, Transit Station Access Improvements	
		466		First/Last Mile improvements for access to/from future fixed guideway transit stations	
	Multi-Modal Corridor Program	54	SGVCOG	Regional Corridor Studies; Rosemead Boulevard	
		55	SGVCOG	Regional Corridor Studies; Valley Boulevard	
		79	SGVCOG	Implement recommendations listed in Ramona-Badillo Regional Corridor Study	
		120	SGVCOG	Implement recommendations from Arrow Highway regional corridor study	
	Soundwall Program	Highway Soundwalls	8	La Canada Flintridge	I-210 Soundwalls from Berkshire Av to Waltonia Ave
			11	Pasadena	I-210- Soundwall Construction – North 210 Freeway, Orange Grove to Arroyo Parkway
382			La Puente	Sound Wall and parkway improvements from Central Ave to Dora Guzman Ave	

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
State of Good Repair Program	State of Good Repair Program	43	Pomona	Pavement Management System (per year)
		69	County of Los Angeles	Bridge Rehabilitation; Repair and rehabilitate highway bridges at various locations
		70	County of Los Angeles	Sidewalk, Curb, Parkway Preservation; Repair and reconstruct sidewalk, curbs, parkway improvements at various locations
		71	County of Los Angeles	Pavement Preservation; Rehabilitate/resurface street pavements to extend useful life and improve rideability
		131	SGVCOG	Highway 39: rehabilitate, re-open, and construct roadway improvements on Route 39 within the Angeles National Forest north of the City of Duarte
		249	Pasadena	Bridge Maintenance and Seismic Retrofit Project
		255	Temple City	Las Tunas Dr. between Rowland Ave and Rosemead Blvd.; Redesign: safety enhancements and beautification.
		282	Glendora	Pavement Preservation; Rehabilitation, Resurfacing, Reconstruction Route 66 - Barranca to Cataract
		283	Glendora	Pavement Preservation; Rehabilitation, Resurfacing, Reconstruction: Lone Hill - Gladstone to Foothill
		284	Glendora	Pavement Preservation; Rehabilitation, Resurfacing, Reconstruction: Foothill - Cullen to Amelia
		285	Glendora	Pavement Preservation; Rehabilitation, Resurfacing, Reconstruction Amelia - Auto Centre to Foothill
		286	Glendora	Pavement Preservation; Rehabilitation, Resurfacing, Reconstruction Glendora: Gladstone to Route 66 then Ada to Sierra Madre
		288	Glendora	Pedestrian Improvements; Construct new sidewalks
		289	Glendora	Glendora Transportation Planning
		319	La Verne	Pavement Management System (Annually)
		339	San Dimas	Pavement Preservation, Rehabilitation, Reconstruction - Allen Ave from Amelia Ave to San Dimas Ave
340	San Dimas	Pavement Preservation, Rehabilitation, Reconstruction - Lone Hill Ave from Covina Blvd to Cienega		
341	San Dimas	Pavement Preservation, Rehabilitation, Reconstruction. Arrow Highway - Valley Center to San Dimas Canyon Road		

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
State of Good Repair Program (continued)	State of Good Repair Program (continued)	342	San Dimas	Pavement Preservation, Rehabilitation, Reconstruction. Foothill Blvd - Cataract to San Dimas Canyon Road
		343	San Dimas	Pavement Preservation, Rehabilitation, Reconstruction on Bonita Ave from Arrow Hwy to San Dimas Canyon Rd
		358	Claremont	Pavement Preservation and Rehabilitation: Foothill Boulevard: West City Boundary Line to East City Boundary Line
		359	Claremont	Pavement Preservation and Rehabilitation: Arrow Hwy: West City Boundary Line to East City Boundary Line
		360	Claremont	Pavement Preservation and Rehabilitation: Base Line Road: West City Boundary Line to East City Boundary Line
		361	Claremont	Pavement Preservation and Rehabilitation: Indian Hill Boulevard: American to Armstrong
		371	Covina	Azusa Ave Bridge Repair and Rehabilitation
		372	Covina	Grand Ave Resurfacing Arrow to San Bernardino
		379	San Gabriel	Bridge Maintenance and Rehabilitation
		380	San Gabriel	Pavement Preservation
System Efficiency Program	Arterial Capacity Enhancement Program	48	Industry, La Puente, Walnut, West Covina	Valley Bl- Widen Valley Bl from I-605 to SR-57
		64	County of Los Angeles	Colima Rd – Fullerton Rd to Diamond Bar City Boundary- Road Widening
		87	County of Los Angeles	Hacienda Bl at Gale Av Et Al.- Intersection Improvements, Widen and Reconfigure Intersection to improve traffic flow
		91	County of Los Angeles	Peck Road - Durfee Avenue to Pellesier Place; Widen Roadway and I-605 Overcrossing, Reconfigure Intersections
		93	County of Los Angeles	Gale Av Widening - Widen from four to six lanes from Fullerton Rd to Nogales St
		107	County of Los Angeles	Fullerton Road Corridor Improvements - Valley Boulevard to Pathfinder Road; Widen and Reconfigure Roadway to improve traffic flow
		108	County of Los Angeles	Azusa Avenue - SR-60 to Colima Road; Reconfigure intersections to improve traffic flow. Widen intersection approaches to improve turning movement capacity
		272	La Puente, Industry, County of Los Angeles	Temple Avenue - Widen and add medians from Puente Ave to Azusa Ave
		293	Bradbury	Bradbury Road Widening (Winding Oak Lane to Bradbury Estates entrance)
		318	Walnut	Grand Avenue and La Puente Road - Add left turn lanes to northbound approach on Grand Avenue. Includes ROW Acquisition
		325	La Verne	Bridge Widening Puddingstone east of Wheeler
		327	Industry	Widening of Valley Blvd. Bridge: Over Old Valley Blvd. Increase capacity, reduce congestion
		331	Duarte, Azusa	Widen Huntington Drive Bridge at San Gabriel River

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
System Efficiency Program (continued)	Arterial TSM Program	5	La Canada Flintridge	West Foothill Boulevard Gateway Project - Foothill Boulevard between Briggs Street and Leata Lane
		16	Pomona	Streets and Roads (w/ Transit)
		62	City of Los Angeles	I-10- Arterial reconfiguration to facilitate directional flow such as reversible lanes Corridor-wide
		63	City of Los Angeles	I-10- Re-stripe various arterials for turn pockets and additional lanes Corridor-wide
		88	Claremont	Monte Vista and Baseline Intersection Improvements. Widen the intersection of Base Line Road and Monte Vista/Padua Avenues to allow for an additional w/b left turn pocket to reduce existing accidents between w/b left turn and e/b movement.
		250	Pasadena	Pasadena Avenue and St. John Avenue Street Improvements
		258	Arcadia	Arcadia Intersection Improvement Program: Santa Anita Ave and I-210 Ramps
		259	Arcadia	Arcadia Intersection Improvement Program: Huntington Drive and Baldwin Ave
		260	Arcadia	Arcadia Intersection Improvement Program: Huntington Drive and Second Ave
		261	Arcadia	Arcadia Intersection Improvement Program: Baldwin Ave and Las Tunas Dr
		262	Arcadia	Arcadia Intersection Improvement Program: Sunset Blvd and Duarte Rd
		263	Arcadia	Arcadia Intersection Improvement Program: Huntington Drive and Colorado Pl
		264	Arcadia	Arcadia Intersection Improvement Program: Colorado Pl and Colorado Blvd
		271	South Pasadena	Fremont Ave Traffic Improvement Plan
		306	Monrovia	Mountain Avenue and Lemon Avenue (dedicated left turn lane signal to improve safety, realignment of street lane striping, and replacement of the existing signal poles/mast arms, conduits, wiring, etc.)
	329	Industry, County of Los Angeles	Peck Road/Rooks Road: PROVIDE DUAL WESTBOUND LEFT TURN LANES, RE-STRIPE THE SOUTHBOUND APPROACH TO PROVIDED A DEDICATED LANE TO THE SB I-605 ON-RAMP	
	335	San Dimas	Intersection Improvements - Bonita Ave/Cataract Ave Intersection	
	Grade Crossing Program	270	South Pasadena	Pasadena Ave/Monterey Road Rail Crossing
		355	Claremont	Install quad gates at Metrolink crossings: Cambridge Avenue, Indian Hill Blvd., College Avenue, Claremont Blvd.
		463	Industry	Lemon Avenue Crossing Improvements: Enhance at grade crossing
464		Industry	Bixby Drive Crossing Improvements: Enhance at grade crossing	
465		Industry	Lemon Avenue Crossing Improvements: Enhance at grade crossing	
Highway Capacity Enhancement Program	141	Montebello, Rosemead	Widen SR-60 to add EB 5th lane from Paramount Bl to San Gabriel Bl	
	144	Pomona, San Dimas	I-10- Construct truck climbing lane on WB I-10 to WB SR-57 connector, modify off-ramp	
	153	County of Los Angeles	SR-60- Add a WB auxiliary lane along SR-60 from Hacienda Bl to 7th Av	
	347	Caltrans	I-210: construct westbound auxiliary lane from Santa Anita Avenue to Baldwin Avenue and eastbound auxiliary lane from Santa Anita Avenue to Huntington Drive.	

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
System Efficiency Program (continued)	Highway Ramps and Interchanges Program	388	Caltrans	Auxiliary lane: Extend the discontinued lane from WB I-210/SR-134 EB connectors to Lincoln Ave.
		7	Arroyo Verdugo COG	SR-134/I-210 Interchange Improvements (Arroyo Verdugo COG/La Canada Flintridge)
		123	Baldwin Park	I-10- Modify interchanges along I-10 in Baldwin Park - (at Frazier, Francisquito and others in Baldwin Park)
		133		SR-60- Improve SR-71 and SR-60 interchange
		135	Claremont	I-10 and Indian hill Boulevard Interchange. Widen the Indian Hill Boulevard undercrossing at the Interstate 10 freeway (and associated bridge reconstruction), to include one additional northbound and southbound lane.
		138	San Gabriel	I-10 at Del Mar Ave - Study, design and reconstruct the off-ramps to provide signalized control
		139	San Gabriel	I-10 at Del Mar Ave - Study, design and reconstruct the off-ramps to provide signalized control
		140	San Gabriel	I-10 at San Gabriel Bl – Study, design and reconstruct the off-ramps to provide signalized control
		148	South Pasadena	SR-110- Redesign and construction of exit and entrance ramps at Fair Oaks Ave, including the construction of a hook ramp on-ramp at end of State St and expansion of Off-Ramp by one lane.
		328	Industry	Valley Blvd/I-605 ramp improvements: Valley Blvd. on-off ramp improvements to the I 605 freeway. PSR completed and approved November 2013
		333	San Dimas	North Bound Off Ramp/Street Intersection Improvements - Arrow Hwy at Bonita Ave/SR 57 Ramp
		344	Caltrans	Westbound I-210: connect and converge Altadena Drive on-ramps into a single on-ramp.
		345	Caltrans	I-210 westbound at Lake Avenue: construct center drop ramp with two drop ramps to serve HOV and general purpose vehicles heading toward SR-134.
	346	Caltrans	Westbound I-210: connect and converge Santa Anita Avenue on-ramps into a single on-ramp.	
	Highway Ramps and Interchanges Program (continued)	348	Caltrans	I-210: modify Rosemead Boulevard/Michilinda Avenue interchange; converge westbound I-210 on-ramps.
		349	Caltrans	I-210: modify north side of I-210 at Baldwin Avenue interchange and eliminate collector-distributor.
		352	Industry	I-605 NB Off-Ramp/Shepherd Street
		353	Industry	I-605 NB Ramps/Pellissier Road

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**



Program	Subprogram	MM Project ID	Jurisdiction*	Description
System Efficiency Program (continued)	Highway TSM Program	136	Alhambra, Baldwin Park, El Monte, Rosemead, San Gabriel, West Covina	I-10- Conduct Eastern Gateway Freeway Corridor Improvement Study I-710 to San Bernardino County Line
		142	City of Los Angeles	I-10- Corridor-wide Expansion of Freeway Service Patrol
		151	City of Los Angeles	I-10- Corridor-wide – Coordinate construction schedules to avoid additional traffic conflicts
		155		SR-60- Expand FSP throughout San Gabriel Valley
		354	Caltrans	EB I-210-PM R44.38/R49.01: Restripe to add MFL from San Dimas Ave. to Fruit St. (Remove drop lane & restriping only. No ROW required. Remove Mainline Bottleneck. )
	I-10 hotspots	383	SGVCOG	Eliminate lane drops, extend auxiliary lanes and correct ramp geometrics at various locations
	I-10 Improvement: I-605 to Durfee Avenue	387	El Monte, Baldwin Park	Westbound I-10 from I-605 to Durfee Avenue. Braid the southbound I-605 to westbound I-10 connector ramp with the westbound I-10 Durfee Ave off ramp to improve traffic operations.
	I-10/I-605 Interchange Improvements	125	SGVCOG	Highway - Interchange Improvements; I-10/I-605 Interchange Improvements
	SR-60 hotspots	384	SGVCOG	Eliminate lane drops, extend auxiliary lanes and correct ramp geometrics at various locations
	SR-60/I-605 Interchange Improvements	30	SGVCOG	Highway - Interchange Improvements; SR-60/I-605 Mixed Flow and HOV Direct Connectors
	SR-60/SR-57 Interchange Improvements	31	SGVCOG, Diamond Bar, Industry	Highway - Interchange Improvements; SR-57/SR-60 Interchange (Future improvements include direct freeway connectors, HOV to HOV connectors, mainline improvements, and/or a westbound SR-60 bypass to Grand Avenue.)
	SR-71 Highway to Freeway Project	25	Pomona/ SGVCOG	SR-71 Highway to Freeway Regional w/ Transit - (Phase I - Mission Boulevard to Rio Rancho Road/State Route 60)
		223	Pomona/ SGVCOG	SR-71 Highway to Freeway Regional w/ Transit (Phase II - Interstate 10 to Mission Boulevard)
	SR-710 North Gap Closure Project	27	SGVCOG/ Caltrans	SR-710 North Gap Closure Project - mode/alignment depending on results of the alternatives analysis
		15	La Canada Flintridge	Metro Line 177- Provide funding to increase headways on Metro Line 177 connecting the Metro Gold Line to Jet Propulsion Laboratory

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Transit Program (continued)	Bus Expansion Program (continued)	38	Foothill Transit	Implement the Foothill Transit Bus Priority Project, which includes increased service, improved service coordination with Metro and other transit services, and new express bus routes. Bus transit priority – Foothill Transit
		216	County of Los Angeles, San Gabriel Valley	I-10- Additional bus service along I-10 corridor Corridor-wide
		217		SR-60- Increase bus service/Metro Rapid/Bus Signal Prioritization I-5 to County Line
		461	Pasadena	Increased Local Transit Capacity for Improved Jobs Access in Pasadena: Funding to provide critical local transit services to increase access to job opportunities in the City's business, commercial, retail, medical and other core employment areas, as well as providing the local transit connection to and from the regional transit network. Increase hours of operations to include nights and weekends and provide real-time bus information (Annual cost plus 3% increase per year)
		467	La Canada Flintridge	Provide east-west transit service on Foothill Blvd to provide one-seat ride from Sunland to La Canada Flintridge (annual cost)
		468	Pasadena	Tier 2 and Municipal Bus Operators - Add late night and weekend bus service
		469	Pasadena	Tier 2 and Municipal Bus Operators - Operating dollars for expanded service
		470	Pasadena	Tier 2 and Municipal Bus Operators – Real-time transit info
	Bus Rapid Transit Program	36	El Monte	Bus-Only Lane- Develop dedicated bus-only lane between El Monte Busway Transit Station and Flair Business Park
		37	Alhambra, El Monte, San Gabriel	Expand bus service along El Monte Busway by increasing route and line capacity with high-occupancy buses
		132	County of Los Angeles, San Gabriel Valley	I-10- Redesign on-ramp shoulders to accommodate Express Bus service Corridor-wide
		219	Covina, Baldwin Park, El Monte	Mid-Valley Rapid Bus Transportation Corridor- Ramona Bl and Badillo Av alignment, terminating at El Monte Busway Transit Station
		273	San Gabriel	Bus Rapid Transit (BRT) on Valley Blvd as identified in Metro's Countywide BRT study
		311	Rosemead	Garvey Avenue - peak hour bus lanes in Rosemead city limits
		364		El Monte Busway Improvements, including bike lockers, ticket vending machines at El Monte Busway stations and up to 30 bus bays
	Metro Gold Line Eastside Extension	32		Metro Gold Line Eastside Transit Corridor Phase 2 - If the selected alignment is SR-60, unfunded scope is \$15M \$0 for low LRT estimate, \$15M for high LRT estimate.
	Metro Gold Line Foothill Extension – Phase 2B	39		Metro Gold Line Foothill LRT Extension - Extension from Azusa to Claremont
	Metrolink Enhancement Program	254	Pomona	Commuter Rail (Transit)
		393	Metrolink	Barranca to Lone Hill Double Track: Construct 3.98 miles of main track, signal upgrade, grade crossing enhancements, bridge work, etc.
		394	Metrolink	EMF Additional Storage Tracks: Increase storage capacity at EMF by extending the length of the existing storage tracks and adding a middle crossover.

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Transit Program (continued)	Metrolink Enhancement Program (continued)	395	Metrolink	EMF S&I Tracks: Add 2 S&I tracks at EMF. Install dump stations and potable water.
		396	Metrolink	Irwin/Amar Double Track : Construct 19,800 ft of maintrack, signal upgrade, 8 grade crossings, 3 private crossings 2 bridges, I-10 fwy box/bridge (Double track and 1 DBL crossover = \$32,100)
		397	Metrolink	Locomotives (for base case growth of locomotives and cars: This is the amount needed for the "organic" growth (irrespective of 30-min. service) and is not counted as part of the 30-min. growth scenario
		398	Metrolink	Lone Hill to White Double Track: Construct 3.1 miles of main track, signal upgrade, grade crossing enhancements, bridge work, etc.
		399	Metrolink	Parking spaces expansion: Work with station city to expand parking spaces at lot nearing capacity. Downtown Pomona >80% full.
		400	Metrolink	Platform Extensions (Claremont, Covina & Baldwin Park Stations): Extend platforms at Claremont, Covina & Baldwin Park stations to allow for operation of 8-car trains and improve station design.
		401	Metrolink	Platform Extension at Industry & Montebello Stations: Extend platforms at Industry & Montebello stations to allow for operation of 8-car trains and improve station design.
		402	Metrolink	Station Parking Lot Expansion: Work with station cities to expand parking spaces at lots nearing capacity. COV, CMT and BWP >80% full.
		403	Metrolink	Station Signage and Ped Gates: Install signage at Covina & El Monte stations on the San Gabriel line
		404	Metrolink	Another CMF level facility for heavy maintenance (for 30-min. service expansion): Need 100% size of CMF in approximately 2017. Will include the administrative offices from existing CMF, a run-through progressive car and loco shop, S&I, storage tracks, fuel system, train wash, shop machinery, and expanded warehouse capacity
		405	Metrolink	LAUS to Claremont Improvements (for 30 min expansion): Track work, increased signal spacing, additional crossover capability and improvements at certain stations. The unit cost for track and signals is \$6000/foot
406	Metrolink	Locomotives (for 30-min. service Expansion): To get to a 30-minute headway, 26 additional locomotives will be needed. The cost of rail cars is assumed to be \$7 M/unit. For the "base case" (i.e., non 30-min. service), another 26 locomotives would be needed. The costs for the base case are shown separately.		

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Transit Program (continued)	Metrolink Enhancement Program (continued)	407	Metrolink	New EMF (30 min service): Located in San Bernardino County on property owned by SANBAG
		408	Metrolink	Rail Cars (for 30-min. service expansion): To get to a 30-min. headway, 90 additional rail cars will be needed. The cost of passenger car is assumed to be #3M/unit. For the "base case" (i.e., non 30-min. service), another 90 passenger cars would be needed. The costs for the base case are shown separately.
		409	Metrolink	Reconfiguration of existing CMF: Relocate admin office to new CMF location and improve capacity by building a run-through progressive car and loco shop at existing CMF
		410	Metrolink	Rehab -Short Term: Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		411	Metrolink	Rehab -Mid Term: Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		412	Metrolink	Rehab -Long Term: Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		413	Metrolink	Rehab - Expansion (for 30-min. service on all Metrolink lines): Includes rehab of rail, ties, OTM, structures, communication, Central Train Control (CTC), grade crossing signals, facilities & equipment, vehicles, rolling stock (locomotives & cars)
		414	Metrolink	Amar Road Crossing Improvements: Enhance at-grade crossing
		415	Metrolink	Arrow Hwy Crossing Improvements: Enhance at-grade crossing
		416	Metrolink	Azusa Avenue Crossing Improvements: Enhance at-grade crossing
		417	Metrolink	Azusa Canyon Road Crossing Improvements: Enhance at-grade crossing
		418	Metrolink	Barranca Avenue Crossing Improvements: Enhance at-grade crossing
		419	Metrolink	Bonnie Cove Avenue Crossing Improvements: Enhance at-grade crossing
		420	Metrolink	Cambridge Avenue Crossing Improvements: Enhance at-grade crossing
		421	Metrolink	Cameras at Grade Crossings: Install cameras at grade crossings
		422	Metrolink	Cataract Avenue Crossing Improvements: Enhance at-grade crossing
		423	Metrolink	Citrus Avenue Crossing Improvements: Enhance at-grade crossing
		424	Metrolink	Claremont Blvd Crossing Improvements: Enhance at-grade crossing
		425	Metrolink	Claremont Station Pedestrian Crossing Improvements: Enhance at-grade crossing
		426	Metrolink	Cogswell Road Crossing Improvements: Enhance at-grade crossing
		427	Metrolink	College Avenue Crossing Improvements: Enhance at-grade crossing
		428	Metrolink	Covina Blvd Crossing Improvements: Enhance at-grade crossing
		429	Metrolink	Cypress St/Banna Avenue Crossing Improvements: Enhance at-grade crossing
		431	Metrolink	Fairplex Drive Crossing Improvements: Enhance at-grade crossing
		432	Metrolink	Francisquito Avenue Crossing Improvements: Enhance at-grade crossing

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description	
Transit Program (continued)	Metrolink Enhancement Program (continued)	433	Metrolink	Fulton Road Crossing Improvements: Enhance at-grade crossing	
		434	Metrolink	Glendora Avenue Crossing Improvements: Enhance at-grade crossing	
		435	Metrolink	Grand Ave Crossing Improvements: Enhance at-grade crossing	
		436	Metrolink	Hamburger Lane (Virginia) Crossing Improvements: Enhance at-grade crossing	
		437	Metrolink	Hollenbeck Avenue Crossing Improvements: Enhance at-grade crossing	
		438	Metrolink	Indian Hill Blvd Crossing Improvements: Enhance at-grade crossing	
		439	Metrolink	Indian Hill Blvd Grade Separation: Grade separation	
		440	Metrolink	Irwindale Avenue Crossing Improvements: Enhance at-grade crossing	
		441	Metrolink	Lark Ellen Avenue Crossing Improvements: Enhance at-grade crossing	
		442	Metrolink	Lone Hill Avenue Crossing Improvements: Enhance at-grade crossing	
		443	Metrolink	MacDevitt Street Crossing Improvements: Enhance at-grade crossing	
		444	Metrolink	Merced Avenue Crossing Improvements: Enhance at-grade crossing	
		445	Metrolink	N. Garey Avenue Crossing Improvements: Enhance at-grade crossing	
		446	Metrolink	N. Garey Avenue Grade Separation: Grade separation	
		447	Metrolink	N. Towne Avenue Crossing Improvements: Enhance at-grade crossing	
		448	Metrolink	Pacific Avenue Crossing Improvements: Enhance at-grade crossing	
		449	Metrolink	Ramona Avenue Crossing Improvements: Enhance at-grade crossing	
		450	Metrolink	San Dimas Avenue Crossing Improvements: Enhance at-grade crossing	
		451	Metrolink	San Dimas Canyon Road Crossing Improvements: Enhance at-grade crossing	
		452	Metrolink	Sunflower Avenue Crossing Improvements: Enhance at-grade crossing	
		453	Metrolink	Temple Avenue Crossing Improvements: Enhance at-grade crossing	
		455	Metrolink	Tyler Street Crossing Improvements: Enhance at-grade crossing	
		456	Metrolink	Valley Center Avenue Crossing Improvements: Enhance at-grade crossing	
		457	Metrolink	Vincent Avenue Crossing Improvements: Enhance at-grade crossing	
		458	Metrolink	Walnut Avenue Crossing Improvements: Enhance at-grade crossing	
		459	Metrolink	Wheeler Avenue Crossing Improvements: Enhance at-grade crossing	
	460	Metrolink	White Avenue Crossing Improvements: Enhance at-grade crossing		
		SR 134 High Capacity Transit Corridor	2	La Canada Flintridge	SR-134 Transit Corridor between Metro Red Line North Hollywood Station and Metro Gold Line Del Mar Station
		Transit Operations Program	208	Pomona	Bus Stops Improvements and Maintenance (per year)
			209	Pomona	Intersection Signals (Transit)
			212	Pomona	Fare Subsidy (per year)
			213	Pomona	Public Transit Services (per year)
			214	Pomona	Transportation Administration (per year)
	218		Pomona	Transportation Planning	
	221		Pomona	Transit Operations, Prop A and Prop C Funding Needs	
	244	Pasadena		Construction of Transit Maintenance Facility	

**SUBREGIONAL MOBILITY MATRIX – SAN GABRIEL VALLEY**

Program	Subprogram	MM Project ID	Jurisdiction*	Description
Transit Program (continued)	Transit Operations Program (continued)	257	Arcadia	Arcadia Bus Stop Improvement Program (bus stop amenities, curb addition and ADA ramps, and bus pads)
		320	La Verne	Bus Stops Maintenance (Annually)
		356	Claremont	Metrolink parking lot rehabilitation, First and College (every seven years)
		462	Pasadena	Pasadena Bus State of Good Repair: Funding to replace paratransit and fixed route transit vehicles that have met or exceeded their useful life in order to maintain current revenue operating levels (10 year cost)
		471	Pasadena	Tier 2 Operators – Dedicated operations and capital funding to match formula equivalency of Included and Eligible Operators (Annual cost for Tier 2 operators countywide)

\*Jurisdiction” may refer to the lead project sponsor, the jurisdiction where the project exists, or the agency that proposed the addition of the project. Projects without specified jurisdictions were sourced from other planning documents (e.g., Metro Long Range Transportation Plan and others) where no lead or proposing agency was listed.

2g. South Bay





## **2g. South Bay**

- 1. Detailed Cost Estimate Ranges**
- 2. Summary of Cost Estimates and Categorizations**
- 3. Performance Evaluations**
- 4. Project Descriptions**



## **South Bay**

### **1. Detailed Cost Estimate Ranges**

**Table 5-2. South Bay Cities Mobility Matrix Rough Order of Magnitude Cost Estimate Ranges and Categorizations**

South Bay Mobility Matrix Projects & Programs	Total Projects	Projects with Estimated Costs	Projects with Original Costs	Short Term (0 to 10 Years)		Mid Term (11 to 20 Years)		Long Term (20 plus Years)	
				Low	High	Low	High	Low	High
Highway/Arterial Operational Improvement Program	67	59	44	\$298,000,000	\$441,000,000	\$218,000,000	\$310,000,000	\$228,00,000	\$340,000,000
Freeway Operational Improvement Program	40	39	37	\$1,293,000,000	\$1,945,000,000	\$1,100,000,000	\$1,693,000,000	\$1,096,000,000	\$1,651,000,000
Managed Lanes - HOV Lanes/Express Lanes	7	6	6	\$280,000,000	\$420,000,000	\$130,000,000	\$165,000,000	\$608,000,000	\$932,000,000
Freeway Capacity Expansion Improvements	4	3	3	\$96,000,000	\$144,000,000	NA	NA	\$19,000,000	\$36,000,000
ITS/Communications with Motorists Program	15	13	12	\$93,000,000	\$139,000,000	\$50,000,000	\$75,000,000	\$9,700,000	\$15,000,000
Local Streets State of Good Repair	33	33	32	\$343,000,000	\$518,000,000	\$343,000,000	\$518,000,000	\$343,000,000	\$518,000,000
Bikeways Program	54	50	37	\$48,000,000	\$74,000,000	\$48,000,000	\$74,000,000	\$48,000,000	\$74,000,000
Pedestrian Program	15	15	14	\$47,000,000	\$83,000,000	\$47,000,000	\$83,000,000	\$47,000,000	\$83,000,000
Complete Streets/Slow Speed Lanes Program	9	3	3	\$10,000,000	\$12,000,000	\$14,000,000	\$29,000,000	Under Development	Under Development
Transportation Management Systems (Traffic Operations Centers, Traffic Signals, Emergency Management)	42	39	38	\$118,000,000	\$178,000,000	\$122,000,000	\$183,000,000	\$118,000,000	\$178,000,000
Goods Movement	5	4	4	\$258,000,000	\$387,000,000	\$417,000,000	\$625,000,000	Under Development	Under Development
Grade Separation and Crossing Projects	16	16	11	\$234,000,000	\$340,000,000	\$140,000,000	\$180,000,000	NA	NA
Paratransit (Dial-a-Ride, Senior/Disabled)	1	0	0	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
Metro/Municipal Transit Capacity Expansion	21	11	11	\$629,000,000	\$664,000,000	\$37,000,000	\$41,000,000	\$2,766,000,000	\$2,906,000,000
Metro/Municipal Transit Incremental Operational Costs from Capacity Expansion	6	5	5	\$15,000,000	\$22,000,000	\$15,000,000	\$22,000,000	\$15,000,000	\$22,000,000

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**

South Bay Mobility Matrix Projects & Programs	Total Projects	Projects with Estimated Costs	Projects with Original Costs	Short Term (0 to 10 Years)		Mid Term (11 to 20 Years)		Long Term (20 plus Years)	
				Low	High	Low	High	Low	High
Metro/Municipal Transit Maintenance and Rehab	7	7	5	\$31,000,000	\$78,000,000	\$11,000,000	\$17,000,000	\$11,000,000	\$17,000,000
Transit Centers/Park and Ride	12	12	8	\$60,000,000	\$89,000,000	\$5,000,000	\$8,000,000	NA	NA
Car Sharing/Ridesharing/Telecommuting/Vanpool Programs	2	0	0	Under Development	Under Development	Under Development	Under Development	Under Development	Under Development
Sustainability SB Plan (Neighborhood-Oriented Development, 1st/Last Mile)	11	8	6	\$37,000,000	\$55,000,000	\$37,000,000	\$55,000,000	\$37,000,000	\$55,000,000
Vehicle Conversion (Electric Vehicle, Slow Speed Vehicle)	5	5	3	\$5,000,000	\$8,000,000	\$5,000,000	\$8,000,000	\$5,000,000	\$8,000,000
Transportation Enhancement/Beautification Programs	4	2	2	\$8,300,000	\$12,000,000	Under Development	Under Development	NA	NA
<b>TOTAL</b>	<b>376</b>	<b>330</b>	<b>281</b>	<b>\$3,904,000,000</b>	<b>\$5,609,000,000</b>	<b>\$2,749,000,000</b>	<b>\$4,066,000,000</b>	<b>\$5,351,000,000</b>	<b>\$6,835,000,000</b>

Notes: Estimated costs in 2015 dollars.

NA – Not applicable.

These estimates under represent the operations and maintenance costs due to limitations of data availability. Costs are also underestimated due to projects and programs where cost estimate ranges are still under development.

Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. Any subregional cost sharing agreements will be determined through future planning efforts. One exception to this in South Bay Cities is the I-710 Widening and Freight Improvement Project where the cost is only being included in the Gateway Cities.

Programs that are ongoing, such as State of Good Repair and Bicycle/Pedestrian, are counted in each timeframe. The total value of these programs is based on the cost estimates of the projects within the programs that were available. Many of these programs have not yet identified projects for outer years so the values of the programs for the mid- and long-term categories are based on the same levels of funding as the short-term.

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**



## **South Bay**

### **2. Summary of Cost Estimates and Categorizations**

**Table 5-3. South Bay Cities Mobility Matrix Summary Rough Order of Magnitude Cost Estimates and Categorizations**

Type/ Category	Arterial	Goods Movement	Highway	Active Transportation	Transit	Other	Regional Facilities	Total
Short-Term (0-10 yrs)	\$666M – \$999M	\$226M – \$325M	\$1.7B – \$2.5B	\$95M – \$157M	\$735M – \$853M	\$145M – \$212M	\$343M – \$514M	\$3.9B – \$5.6B
Mid-Term (11-20 yrs)	\$608M – \$897M	\$140M – \$180M	\$1.3B – \$1.9B	\$95M – \$157M	\$68M – \$88M	\$109M – \$171M	\$457M – \$685M	\$2.7B – \$4.1B
Long-Term (>20 yrs)	\$614M – \$922M	NA	\$1.8B – \$2.7B	\$95M – \$157M	\$2.8B – \$2.9B	\$55M – \$82M	Under Development	\$5.4B – \$6.8B
<b>Total</b>	Estimates for 134 out of 146 Projects \$1.9B – \$2.8B	Estimates for 6 out of 6 Projects \$366M – \$505M	Estimates for 53 out of 56 Projects \$4.8B – \$7.2B	Estimates for 65 out of 69 Projects \$285M – \$471M	Estimates for 35 out of 47 Projects \$3.6B – \$3.9B	Estimates for 27 out of 41 Projects \$309M – \$465M	Estimates for 10 out of 11 Projects \$800M – \$1.2B	Estimates for 333 out of 376 Projects \$12.0B – \$16.5B

Estimated costs in 2015 dollars.

NA – Not applicable.

These estimates under represent the operations and maintenance costs due to limitations of data availability. Costs are also underestimated due to projects and programs where cost estimate ranges are still under development.

Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. Any subregional cost sharing agreements will be determined through future planning efforts. One exception to this in South Bay Cities is the I-710 Widening and Freight Improvement Project where the cost is only being included in the Gateway Cities.

Programs that are ongoing, such as State of Good Repair and Bicycle/Pedestrian, are counted in each timeframe. The total value of these programs is based on the cost estimates of the projects within the programs that were available. Many of these programs have not yet identified projects for outer years so the values of the programs for the mid- and long-term categories are based on the same levels of funding as the short-term.

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**



## **South Bay**

### **3. Performance Evaluations**

**Table 4-2. Performance Evaluation – Summary by Subprogram**

	# of Projects	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>•Improves local and regional mobility and access</li> <li>•Manages system demand through multimodal strategies and technology</li> <li>•Reduces VMT</li> </ul>	<ul style="list-style-type: none"> <li>•Improves travel reliability and reduces traffic conflicts</li> <li>•Reduces serious injury accidents and fatalities</li> </ul>	<ul style="list-style-type: none"> <li>•Provides infrastructure and incentives to support low and zero emissions mobility modes</li> <li>•Promotes neighborhood serving development, integrated with emerging technology and private sector services</li> <li>•Advances innovative public and private sustainable transportation projects &amp; programs</li> <li>•Improves quality of life</li> </ul>	<ul style="list-style-type: none"> <li>•Fosters innovation and promotes sustainable economic development and job growth</li> <li>•Ensures transportation investments service changing mobility and sustainability priorities</li> <li>•Delivers projects efficiently and cost-effectively</li> <li>•Improves goods movement efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Promotes increased access and connectivity to all travel modes</li> <li>•Provides access for aging and transit-dependent populations</li> </ul>	<ul style="list-style-type: none"> <li>•Maintains transportation facilities and assets in overall good condition</li> <li>•Extends useful life of transportation facility or equipment</li> </ul>
<b>South Bay Mobility Matrix Projects &amp; Programs</b>	<b>67</b>						
<b>Highway/Arterial Operational Improvement Program</b>	<b>67</b>						
Highway/Arterial Capacity Enhancement Program	26	●	◐	◑	◑	◐	○
Highway/Arterial Intersection Improvement Program	19	◐	◑	○	◑	◑	○
Highway/Arterial School-Related Safety Improvements	2	○	●	◑	○	○	◑
Highway/Arterial TSM Program	15	◐	◑	◑	◑	◑	○
Parking Restrictions Program	2	◐	◑	○	○	○	○
Regional Facilities Arterial Improvements <sup>a</sup>	3	◐	◐	◑	●	○	◑
<b>Freeway Operational Improvement Program</b>	<b>40</b>						
I-105 Freeway Operational Improvements	2	◐	◐	○	●	○	○
I-110 Freeway Operational Improvements	3	◐	◐	○	●	○	○

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**

		Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
<b>South Bay Mobility Matrix Projects &amp; Programs</b>	<b># of Projects</b>	<ul style="list-style-type: none"> <li>•Improves local and regional mobility and access</li> <li>•Manages system demand through multimodal strategies and technology</li> <li>•Reduces VMT</li> </ul>	<ul style="list-style-type: none"> <li>•Improves travel reliability and reduces traffic conflicts</li> <li>•Reduces serious injury accidents and fatalities</li> </ul>	<ul style="list-style-type: none"> <li>•Provides infrastructure and incentives to support low and zero emissions mobility modes</li> <li>•Promotes neighborhood serving development, integrated with emerging technology and private sector services</li> <li>•Advances innovative public and private sustainable transportation projects &amp; programs</li> <li>•Improves quality of life</li> </ul>	<ul style="list-style-type: none"> <li>•Fosters innovation and promotes sustainable economic development and job growth</li> <li>•Ensures transportation investments service changing mobility and sustainability priorities</li> <li>•Delivers projects efficiently and cost-effectively</li> <li>•Improves goods movement efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Promotes increased access and connectivity to all travel modes</li> <li>•Provides access for aging and transit-dependent populations</li> </ul>	<ul style="list-style-type: none"> <li>•Maintains transportation facilities and assets in overall good condition</li> <li>•Extends useful life of transportation facility or equipment</li> </ul>
I-105 Freeway Operational Improvements; I-405 Freeway Operational Improvements	1	●	●	○	●	○	○
I-405 Freeway Operational Improvements	10	●	●	○	●	○	○
Freeway Interchange and Ramp Program	21	●	●	○	●	●	●
Regional Facilities Freeway Improvements <sup>a</sup>	3	●	●	○	●	●	●
<b>Managed Lanes – HOV Lanes/ Express Lanes</b>	<b>7</b>						
Express Lane Improvements	3	●	●	●	●	●	○
HOV Connectors Improvements	4	●	●	●	●	●	○
<b>Freeway Capacity Expansion Improvements</b>	<b>4</b>						
I-405 Freeway Capacity Improvements	3	●	●	○	●	○	●
I-710 Freeway Capacity Improvements	1	●	●	○	●	○	●

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**

		<b>Mobility</b>	<b>Safety</b>	<b>Sustainability</b>	<b>Economy</b>	<b>Accessibility</b>	<b>State of Good Repair</b>
		<ul style="list-style-type: none"> <li>•Improves local and regional mobility and access</li> <li>•Manages system demand through multimodal strategies and technology</li> <li>•Reduces VMT</li> </ul>	<ul style="list-style-type: none"> <li>•Improves travel reliability and reduces traffic conflicts</li> <li>•Reduces serious injury accidents and fatalities</li> </ul>	<ul style="list-style-type: none"> <li>•Provides infrastructure and incentives to support low and zero emissions mobility modes</li> <li>•Promotes neighborhood serving development, integrated with emerging technology and private sector services</li> <li>•Advances innovative public and private sustainable transportation projects &amp; programs</li> <li>•improves quality of life</li> </ul>	<ul style="list-style-type: none"> <li>•Fosters innovation and promotes sustainable economic development and job growth</li> <li>•Ensures transportation investments service changing mobility and sustainability priorities</li> <li>•Delivers projects efficiently and cost-effectively</li> <li>•Improves goods movement efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Promotes increased access and connectivity to all travel modes</li> <li>•Provides access for aging and transit-dependent populations</li> </ul>	<ul style="list-style-type: none"> <li>•Maintains transportation facilities and assets in overall good condition</li> <li>•Extends useful life of transportation facility or equipment</li> </ul>
<b>South Bay Mobility Matrix Projects &amp; Programs</b>	<b># of Projects</b>						
<b>ITS/Communications with Motorists Program</b>	<b>15</b>						
Freeway ITS Program	1	●	●	○	●	○	○
Arterial ITS Program	10	●	●	○	○	○	○
Other ITS Improvements	4	●	●	○	○	○	○
<b>Local Streets State of Good Repair</b>	<b>33</b>						
Local Streets State of Good Repair Program	33	●	●	●	●	○	●
<b>Bikeways Program</b>	<b>54</b>						
Bikeways Program	54	●	●	●	○	●	○
<b>Pedestrian Program</b>	<b>15</b>						
Pedestrian Program	15	●	●	●	○	●	○
<b>Complete Streets/ Slow Speed Lanes Program</b>	<b>9</b>						
Complete Streets Program	8	●	●	●	●	●	○
Slow Speed Implementation Program	1	●	●	●	○	●	○

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**

		Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
<b>South Bay Mobility Matrix Projects &amp; Programs</b>	<b># of Projects</b>	<ul style="list-style-type: none"> <li>•Improves local and regional mobility and access</li> <li>•Manages system demand through multimodal strategies and technology</li> <li>•Reduces VMT</li> </ul>	<ul style="list-style-type: none"> <li>•Improves travel reliability and reduces traffic conflicts</li> <li>•Reduces serious injury accidents and fatalities</li> </ul>	<ul style="list-style-type: none"> <li>•Provides infrastructure and incentives to support low and zero emissions mobility modes</li> <li>•Promotes neighborhood serving development, integrated with emerging technology and private sector services</li> <li>•Advances innovative public and private sustainable transportation projects &amp; programs</li> <li>•Improves quality of life</li> </ul>	<ul style="list-style-type: none"> <li>•Fosters innovation and promotes sustainable economic development and job growth</li> <li>•Ensures transportation investments service changing mobility and sustainability priorities</li> <li>•Delivers projects efficiently and cost-effectively</li> <li>•Improves goods movement efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Promotes increased access and connectivity to all travel modes</li> <li>•Provides access for aging and transit-dependent populations</li> </ul>	<ul style="list-style-type: none"> <li>•Maintains transportation facilities and assets in overall good condition</li> <li>•Extends useful life of transportation facility or equipment</li> </ul>
<b>Transportation Management Systems (Traffic Operations Centers, Traffic Signals, Emergency Management)</b>	<b>42</b>						
Freeway TMS Program	7	●	◐	◑	◐	○	○
Subregional Traffic Management Center	1	◐	◐	○	◑	○	○
Arterial Messaging System	1	◑	◑	○	○	○	○
Event/Emergency Management System Program	5	◑	◐	○	○	○	○
Traffic Signal Synchronization Projects	28	●	◑	◑	◑	◑	◐
<b>Goods Movement</b>	<b>5</b>						
Regional Goods Movement Program <sup>a</sup>	5	◐	◐	◑	●	○	◑
<b>Grade Separation and Crossing Projects</b>	<b>16</b>						
Subregional Grade Separation Program	6	●	●	◐	◐	○	◐
Grade Crossing Improvement Projects	10	●	●	◐	◐	○	◑

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**

		<b>Mobility</b>	<b>Safety</b>	<b>Sustainability</b>	<b>Economy</b>	<b>Accessibility</b>	<b>State of Good Repair</b>
		<ul style="list-style-type: none"> <li>•Improves local and regional mobility and access</li> <li>•Manages system demand through multimodal strategies and technology</li> <li>•Reduces VMT</li> </ul>	<ul style="list-style-type: none"> <li>•Improves travel reliability and reduces traffic conflicts</li> <li>•Reduces serious injury accidents and fatalities</li> </ul>	<ul style="list-style-type: none"> <li>•provides infrastructure and incentives to support low and zero emissions mobility modes</li> <li>•Promotes neighborhood serving development, integrated with emerging technology and private sector services</li> <li>•Advances innovative public and private sustainable transportation projects &amp;, programs</li> <li>•Improves quality of life</li> </ul>	<ul style="list-style-type: none"> <li>•Posers innovation and promotes sustainable economic development and job growth</li> <li>•Ensures transportation investments service changing mobility and sustainability priorities</li> <li>•Delivers projects efficiently and cost-effectively</li> <li>•Improves goods movement efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Promotes increased access and connectivity to all travel modes</li> <li>•Provides access for aging and transit-dependent populations</li> </ul>	<ul style="list-style-type: none"> <li>•Maintains transportation facilities and assets in overall good condition</li> <li>•Extends useful life of transportation facility or equipment</li> </ul>
<b>South Bay Mobility Matrix Projects &amp; Programs</b>	<b># of Projects</b>						
<b>Paratransit (Dial-a-Ride, Senior/Disabled)</b>	<b>1</b>						
Paratransit Program	1	○	○	○	○	●	○
<b>Metro/Municipal Transit Capacity Expansion</b>	<b>21</b>						
Metro Harbor Subdivision/Green Line Southern Extension to Torrance and Maintenance Facility	1	●	○	○	○	●	○
Metro Harbor Subdivision/Green Line Extension from Torrance to Long Beach Blue Line	1	●	○	○	○	●	○
Metro Harbor Subdivision/Green Line Extension from Torrance to San Pedro	1	●	○	○	○	●	○
Bus Rapid Transit Program	2	○	○	○	○	●	○
Bus Expansion Program	16	○	○	○	○	●	○
<b>Metro/ Municipal Transit Incremental Operational Costs from Capacity Expansion</b>	<b>6</b>						
Transit Operations Program	6	○	○	○	○	●	○

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**

		<b>Mobility</b>	<b>Safety</b>	<b>Sustainability</b>	<b>Economy</b>	<b>Accessibility</b>	<b>State of Good Repair</b>
		<ul style="list-style-type: none"> <li>•Improves local and regional mobility and access</li> <li>•Manages system demand through multimodal strategies and technology</li> <li>•Reduces VMT</li> </ul>	<ul style="list-style-type: none"> <li>•Improves travel reliability and reduces traffic conflicts</li> <li>•Reduces serious injury accidents and fatalities</li> </ul>	<ul style="list-style-type: none"> <li>•Provides infrastructure and incentives to support low and zero emissions mobility modes</li> <li>•Promotes neighborhood serving development, integrated with emerging technology and private sector services</li> <li>•Advances innovative public and private sustainable transportation projects &amp; programs</li> <li>•Improves quality of life</li> </ul>	<ul style="list-style-type: none"> <li>•Fosters innovation and promotes sustainable economic development and job growth</li> <li>•Ensures transportation investments service changing mobility and sustainability priorities</li> <li>•Delivers projects efficiently and cost-effectively</li> <li>•Improves goods movement efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Promotes increased access and connectivity to all travel modes</li> <li>•Provides access for aging and transit-dependent populations</li> </ul>	<ul style="list-style-type: none"> <li>•Maintains transportation facilities and assets in overall good condition</li> <li>•Extends useful life of transportation facility or equipment</li> </ul>
<b>South Bay Mobility Matrix Projects &amp; Programs</b>	<b># of Projects</b>						
<b>Metro/Municipal Transit Maintenance and Rehab</b>	7						
Green Line: Miscellaneous capital and operational improvements to existing line	1	●	○	◐	◐	○	●
Transit Maintenance and Rehab Program	6	●	○	◐	◐	○	●
<b>Transit Centers/Park and Ride</b>	12						
Transit Center/Park and Ride/Multimodal Center Program	12	●	○	●	◐	●	◐
<b>Car Sharing/Ridesharing/Telecommuting/Vanpool Programs</b>	2						
Car Sharing/Ridesharing/Telecommuting/Vanpool Program	2	●	○	●	◐	●	○

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**

		Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
South Bay Mobility Matrix Projects & Programs	# of Projects	<ul style="list-style-type: none"> <li>•Improves local and regional mobility and access</li> <li>•Manages system demand through multimodal strategies and technology</li> <li>•Reduces VMT</li> </ul>	<ul style="list-style-type: none"> <li>•Improves travel reliability and reduces traffic conflicts</li> <li>•Reduces serious injury accidents and fatalities</li> </ul>	<ul style="list-style-type: none"> <li>•Provides infrastructure and incentives to support low and zero emissions mobility modes</li> <li>•Promotes neighborhood serving development, integrated with emerging technology and private sector services</li> <li>•Advances innovative public and private sustainable transportation projects &amp; programs</li> <li>•Improves quality of life</li> </ul>	<ul style="list-style-type: none"> <li>•Fosters innovation and promotes sustainable economic development and job growth</li> <li>•Ensures transportation investments service changing mobility and sustainability priorities</li> <li>•Delivers projects efficiently and cost-effectively</li> <li>•Improves goods movement efficiency</li> </ul>	<ul style="list-style-type: none"> <li>•Promotes increased access and connectivity to all travel modes</li> <li>•Provides access for aging and transit-dependent populations</li> </ul>	<ul style="list-style-type: none"> <li>•Maintains transportation facilities and assets in overall good condition</li> <li>•Extends useful life of transportation facility or equipment</li> </ul>
<b>Sustainability SB Plan (Neighborhood-Oriented Development, 1st/Last Mile)</b>	<b>11</b>						
First/Last Mile Program	8	●	●	●	●	●	○
Mobility/Sustainability Education and Incentive Program	1	●	●	●	○	●	○
Neighborhood-Oriented Development Program	1	●	●	●	●	●	○
Subregional Sustainability Transportation Program	1	●	○	●	●	●	○
<b>Vehicle Conversion (Electric Vehicle, Slow Speed Vehicle)</b>	<b>5</b>						
Vehicle Conversion (Electric Vehicle, Slow Speed Vehicle) Program	5	●	●	●	●	●	○
<b>Transportation Enhancement/Beautification Programs</b>	<b>4</b>						
Transportation Enhancement/Beautification Program	4	○	●	●	○	○	○

a These projects and programs are part of the Regional Facilities list.

**SUBREGIONAL MOBILITY MATRIX – SOUTH BAY CITIES**



## **South Bay**

### **4. Project Descriptions**

APPENDIX C. South Bay Mobility Matrix - DRAFT Consolidated Project/Program List

2/25/2015

Program	Subprogram	MM Project ID	Jurisdiction	Description
Highway / Arterial Operational Improvement Program	Highway/Arterial Capacity Enhancement Program	2057	LA City - Wilmington-Harbor City	Alameda St: Widen to provide three lanes per direction from I-10 to Henry Ford Avenue
		1076	LA City	Anaheim Street: Farragut Avenue to Dominguez Channel: Widen Anaheim Street from 78' to 84' and restripe to accommodate an additional lane in each direction; this would improve the roadway from 4 lanes to 6 lanes
		2060	LA City - Wilmington-Harbor City	Anaheim Street: Widen between Cushing and I Streets to provide three lanes eastbound and 2 lanes westbound.
		12	LA County	Aviation Boulevard: Aviation Boulevard widening project from Imperial Highway to Rosecrans Avenue
		20	El Segundo	Aviation: Widen southbound Aviation Blvd to increase from two to three lanes between Imperial Ave. and Rosecrans, and improve left turn movements.
		8	Lomita, Torrance	Crenshaw and Lomita Bl: Street widening including add's ROW: on Crenshaw – add dual NB right-turn and a single SB lane. Lomita – add dedicated WB right-turn lane and 4th through lane
		9	Torrance	Crenshaw and Torrance Bl: Street widening including add'l ROW: – Crenshaw and Torrance Bl. Provide dedicated SB right turn lane
		16	Torrance	Crenshaw Bl and Carson St: Street widening (including add'l ROW: – Crenshaw and Carson St – Add 4th through lane on Crenshaw at intersection; and transition to merge back to 3 NB lanes
		10	Torrance	Crenshaw Bl and Sepulveda Bl: Street widening including add'l ROW: – Crenshaw at Sepulveda Bl. On Crenshaw: add dual NB right-turn on Sepulveda; add dedicated EB right-turn lane and 4th through lane
		1077	LA City	Del Amo Boulevard: from Western Avenue to Vermont Avenue
		1050	LA County	Del Amo Boulevard: from Western Avenue to Vermont Avenue: Reconstruct and widen from one lane in each direction to two lanes in each direction
		23	LA City and County	Del Amo Bl: Complete the missing segment of Del Amo Bl between Denker Av and Normandie Av. Complete missing segment from Normandie to Vermont Av
		22	LA County	Del Amo Bl: Construction of a roadway to close the gap between Normandie Av and Vermont Av
		4002	El Segundo	El Segundo Blvd. Widen the street between Sepulveda Blvd and Douglas Ave. to four lanes in the eastbound direction and install bike lane
		2059	LA City - Wilmington-Harbor City	Henry Ford Avenue: Widen to provide three lanes per direction from Alameda Street to Terminal Island Freeway (Alameda Corridor)
		2062	LA City - Wilmington-Harbor City	Lomita Boulevard: Improvement as a Secondary Highway, east of Eubank Avenue to Alameda Street, with an at-grade intersection at Alameda. [TIMP]
		19	Manhattan Beach	Manhattan Beach Arterial Capacity enhancements
		1042	Redondo Beach	Pacific Coast Highway: from Anita Street to Palos Verdes Boulevard: PCH Study Improvements: Implement PCH Study Recommendations (11)
		14	Torrance	Prairie Av and 190th St: Street widening including add'l ROW: – On 190th add dual NB right-turn and re-striping to provide 3 through lanes for WB and EB. Also prohibit on-street parking
		1088	Lawndale	Redondo Beach Blvd: At I-405, from Hawthorne Boulevard to Prairie Avenue: ROW Acquisition, signal upgrades, concrete pads for transit, ADA ramps
		1034	Lawndale	Rosecrans Avenue: Traffic signal improvements, left-turn improvements and various concrete improvements. From East of Inglewood Ave to Prairie Ave
		18	Carson	Sepulveda Blvd: from Alameda Street to ICTF Driveway: Widen from four lanes to six lanes, rehabilitate bridge. Bridge widening over Dominguez Channel, Street widening, channelization, roadway work, signals, left turning phases, striping, street lighting
		1058	El Segundo	Sepulveda Boulevard: from Imperial Highway to El Segundo Boulevard: Implement PCH Study Recommendations (8)
		24	Torrance	Torrance Bl : Widen to 3 WB through lanes from Crenshaw to Madrona Av

APPENDIX C. South Bay Mobility Matrix - DRAFT Consolidated Project/Program List

2/25/2015

Program	Subprogram	MM Project ID	Jurisdiction	Description	
Highway / Arterial Operational Improvement Program	Highway/Arterial Capacity Enhancement Program	13	LA County, Caltrans	Torrance Bl: Torrance Bl/I-110 undercrossing widening	
		1087	Gardena	Various Improvements: 1) Redondo Beach Blvd Arterial Improvements from Crenshaw Blvd to Vermont Ave; 2) Crenshaw Blvd Arterial Improvements from Redondo Beach Blvd to El Segundo Blvd; 3) Normandie Ave Arterial Improvements from El Segundo Blvd to 177th Street	
	Highway/Arterial Intersection Improvement Program	1052	Redondo Beach	Aviation Boulevard: at Artesia Boulevard: Construct northbound right-turn lane. Aviation Boulevard Phase 1: Intersection Projects	
		184	Torrance	Crenshaw Bl and 190th St: Reconstruct intersection (remove median and re-stripe) – add on Crenshaw NB left turn lane at Crenshaw Bl and 190th St	
		15	Torrance	Crenshaw Bl at 182nd St: Widen 182nd St to provide 2 designated WB left turn lanes, 2 WB through lanes and a new EB through right lane. Widen the east side of Crenshaw Bl to provide 3 NB through lanes. Modify signal	
		1086	Torrance	Hawthorne Bl: At 182nd Street, Spencer Street, Emerald Street, and Lomita Blvd: for roadway widening to construct new northbound right turn lanes	
		6	Rolling Hills Estates	Hawthorne Bl: at Silver Spur Rd.; Add dual EB and WB left turn pockets	
		1070	Redondo Beach	Inglewood Avenue: at Manhattan Beach Boulevard: Add southbound right-turn lane south of railroad tracks to Manhattan Beach Boulevard	
		124	Inglewood	La Cienega Bl: La Cienega Bl at La Tijera Bl & Centinela Av	
		3001	Carson	Main St at Del Amo Blvd: Intersection improvement to support major development	
		1039	Inglewood	Manchester/La Cienega : Channelize and raise median Manchester Blvd from Ash Ave to La Cienega Blvd, Improve turn radii La Cienega Blvd at Manchester Blvd, Improve turn radii and through-right lane La Cienega Boulevard at Florence Avenue	
		2063	Manhattan Beach	Marine Avenue at Cedar Way: Half-Signal and Reconfiguration	
		1068	Hermosa Beach	Pacific Coast Highway: at Aviation Boulevard: Add southbound dual left turn lanes	
		1045	Torrance	Pacific Coast Highway: at Crenshaw Avenue operational improvements	
		1046	Torrance	Pacific Coast Highway: At Hawthorne Boulevard add northbound, eastbound, and westbound right-turn lane, add eastbound left-turn, signal upgrades	
		1044	Redondo Beach	Pacific Coast Highway: at Palos Verdes Boulevard: Install westbound right-turn lane	
		1043	Redondo Beach	Pacific Coast Highway: at Torrance Boulevard: Add northbound right-turn lane	
		1069	Torrance	Pacific Coast Highway: At Vista Montana/Anza Avenue, restripe to add southbound through lane & signal modification for protected northbound/southbound left-turn phasing. Modify striping to accommodate a longer northbound left-turn lane	
		7	Rolling Hills Estates	Palos Verdes Dr: North at Rolling Hills Rd.: Add second WB and EB lanes and protected left turn phasing	
		1036	Manhattan Beach	Valley Drive/Armory: Intersection Improvements at Manhattan Beach Boulevard and 15th Street. Construction of traffic circles at the intersections of Valley/Armory at Manhattan Beach Boulevard and 15th Street	
		11	Torrance, Los Angeles	Western /Sepulveda: Add northbound left-turn lane; widen and restripe for dual eastbound left-turn lanes and westbound right-turn lanes, modify signals and WB double left turn lanes	
		Highway/Arterial School-Related Safety Improvements	1079	Torrance	Pacific Coast Highway: From Calle Mayor to Janet Lane. Safety guardrail, fencing and landscaping project to prevent illegal mid-block pedestrian crossing and vehicle incursion onto PCH from a frontage road on the south side of PCH used as a student drop off area for South High School which is on the north side of PCH.
			3	Rolling Hills Estates	Palos Verdes Dr: North at Dapplegray School; add EB merge lanes
		Highway/Arterial TSM Program	69	Torrance	190th St / Van Ness Ave Intersection Improvement
			70	Torrance	190th St/Crenshaw Blvd Intersection Improvement
	113		LA City	Anaheim St Roundabout @ Gaffey / Vermont / PV Drive North	

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Program	Subprogram	MM Project ID	Jurisdiction	Description	
Highway / Arterial Operational Improvement Program	Highway/Arterial TSM Program	71	El Segundo	Aviation Blvd / El Segundo Blvd Intersection Improvement	
		72	Torrance	Crenshaw Blvd/ Carson St TSM Intersection Improvement	
		73	Torrance	Crenshaw Blvd/ Sepulveda Blvd TSM Intersection Improvement	
		74	Torrance	Crenshaw Blvd/ Torrance Blvd TSM Intersection Improvement	
		75	Carson	Del Amo Blvd. / Santa Fe Ave Intersection Improvement	
		77	LA City	Gaffey St / 1st St Intersection Improvement	
		67	Lawndale	Hawthorne Bl and PCH: Add dedicated right turn lanes and left turn pockets	
		112	Lawndale, Redondo Beach	Inglewood Av: Widen Inglewood Av from Manhattan Beach Bl to I-405 to add right-turn lane, SB – Redondo Beach, NB – Lawndale	
		122	Inglewood	La Cienega Bl: Corridor Improvement Project, concept to I-10	
		79	Torrance	Pacific Coast Highway/Crenshaw Blvd intersection improvement	
		1080	Caltrans, Torrance	Pacific Coast Highway: Madison Ave: Signal upgrades to provide left-turn phasing	
		66	Torrance	Van Ness Av and 190th St: Widen signalized intersection. On 190th, restripe to add 3 through lanes for both WB and EB and prohibit on-street parking and upgrade traffic signal	
	Parking Restrictions Program	LA City - Wilmington-Harbor City	2056	LA City - Wilmington-Harbor City	Anaheim Street and Western Ave: Additional PM parking restrictions and striping for an additional lane are proposed on: <ul style="list-style-type: none"> <li>Anaheim Street between Alameda Street and east of Dominguez Channel [TIMP]</li> <li>Western Avenue between Sepulveda Boulevard and Capitol Avenue [TIMP]</li> </ul>
			2045	LA City - San Pedro	San Pedro Priority Motorized Vehicle Routes. The San Pedro Community Plan identifies motorized vehicle priority streets. Street improvements for may include peak hour parking restrictions for use of curb lanes, turn lane channelization and traffic signal coordination and other traffic management techniques to facilitate motorized vehicle flow and discourage cut-through traffic on local neighborhood streets. Motorized vehicle priority streets include: Western Avenue between 25th Street and north San Pedro border; Gaffey Street between 25th Street and north San Pedro border; 25th Street between Rancho Palos Verdes border and Gaffey Street; and Capitol Drive between Western Avenue and Gaffey Street.
	Regional Facilities Arterial Improvements	Port of Los Angeles	5008	Port of Los Angeles	Harbor Blvd - As part of the San Pedro Waterfront Development Project, Harbor Blvd will be restriped, and the median removed/reconstructed as needed to provide three NBT and SBT lanes between the reconstructed Sampson Way/Harbor Blvd intersection and the WB on ramp/Front Street intersection. This will result in the removal of parking and the bike lane on the northbound side. The parking and 5' bike lane on the southbound side, south of O'Farrell Street will be preserved. North of O'Farrell Street, the parking and the parking lane on the southbound side would need to be removed to accommodate the northbound dual left-turn lane. The innermost northbound through lane at the EB off-ramp intersection would become a forced left-turn lane at the SR 47 WB on-ramp. This improvement is projected to be needed by the year 2024.
			5009	Port of Los Angeles	Harbor Blvd. & 7th Street Intersection- The project includes a reconfigured intersection at the junction of Harbor Blvd, Sampson Way, and 7th Street. Work includes retaining wall, street work, grading, paving, lighting, restriping and a new signalized intersection.
			5010	Port of Los Angeles	Sampson Way to 22nd Street & Miner Street - Sampson Way would be realigned and expanded to two lanes in each direction and would curve near the Municipal Fish Markets to meet with 22nd Street in its westward alignment east of Miner Street. In the proposed project, Harbor Blvd. would remain in place at its current capacity with two lanes in each direction. Proposed enhancements would be consistent with design standards for the Community Redevelopment Agency (CRA) Pacific Corridor and the City of Los Angeles Planning Department Community Design Overlay.

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Freeway Operational Improvement Program	I-105 Freeway Operational Improvements	1102	Caltrans	I-105: Add Aux lane on EB I-105 from Nash Avenue to Van Ness Avenue. PM 0.99/5.23
		1101	Caltrans	I-105: Add Aux lane on WB I-105 from Wilton Place to Hawthorne Blvd. PM 3.05/5.48
	I-110 Freeway Operational Improvements	189	Caltrans, SBCCOG	I-110: Add auxiliary lane SB I-110 between Sepulveda and PCH
		1038	Caltrans, Carson, Los Angeles, Los Angeles County	I-110: Auxiliary Lane on SB I-110 from WB SR-91 Connector from Torrance Boulevard off-ramp.
		205	Caltrans, SBCCOG	I-110: Implement Interagency Integrated Corridor Management System on I-110 from Artesia Blvd and Pacific Coast Hwy. The project will integrate freeway, arterial and transit operations, implement a Decision Support System for coordinated agency operations and traveler information systems.
	I-105 Freeway Operational Improvements; I-405 Freeway Operational Improvements	1061	Caltrans	I-405 and I-105: I-405 from I-110 to I-105 and I-105 from I-405 to Crenshaw: Corridor Refinements
	I-405 Freeway Operational Improvements	1100	Caltrans	I-405: Add Aux lane on SB I-405 from Hawthorne to Redondo Beach. PM 17.58/16.90
		1099	Caltrans	I-405: Add Aux lane on SB I-405 from Inglewood to Hawthorne Blvd. PM 18.25/17.58
		144	Caltrans, Lawndale	I-405: Add NB auxiliary lane from Hawthorne to Inglewood Av. PM 17.58/18.25
		147	Caltrans, Lawndale	I-405: Add NB auxiliary lane from Redondo Beach Bl to Hawthorne. PM 16.90/17.58
		149	Caltrans, SBCCOG	I-405: Add northbound auxiliary lane from Inglewood Ave to Rosecrans Ave. PM 18.25/19.22
		150	Caltrans, SBCCOG, LA City	I-405: Add northbound auxiliary lane from Normandie Ave to Western Ave. PM 13.85/9.98
		1018	Caltrans, Hawthorne	I-405: Add northbound auxiliary lane from south of El Segundo Blvd to I-105
		151	Caltrans, SBCCOG	I-405: Add southbound auxiliary lane from Hindry Avenue to Inglewood Ave. PM 19.10/18.25
		179	Caltrans, SBCCOG	I-405: Open and restripe the SB Hawthorne Blvd to northbound I-405 on ramp, bridge widening
		202	Caltrans, LA City, Inglewood	I-405: Realign the SB I-405 south of SR-90 to Manchester where it bends sharply just north of Manchester Bl. PM 25.5/23.7
	Freeway Interchange and Ramp Program	76	Caltrans, LA City, SBCCOG	I-110/Anaheim St: Widen Anaheim Street and reconfigure I-110 ramps at Anaheim St
		1002	Caltrans, Carson	I-110: Figueroa Street Ramps and Aux Lanes: Widening of NB off-ramp (from 1 to 2 lanes) and NB on-ramp (from 1 to 2 lanes) at I-110 freeway (between Torrance Blvd and Del Amo Ave)
		1021	Caltrans, LA City	I-110: Signalize northbound off-ramp, intersection improvements and widen existing ramps at PCH
		190	Caltrans, SBCCOG	I-110: Widen southbound I-110 off-ramp at Pacific Coast Hwy
		1057	Caltrans, Torrance	I-405: I-405 on & off ramps at 182nd St. / Crenshaw Boulevard operational improvements. EA 29360
		195	Caltrans, SBCCOG	I-405: Widen NB I-405 off-ramp to Artesia WB and widen the structure
		172	Caltrans, SBCCOG	I-405: Widen northbound I-405 off ramp at Rosecrans Ave. PM 19.10
		187	Caltrans, Lawndale, Redondo Beach	I-405: Widen SB Inglewood on-ramp to NB I-405. PM 18.40
		173	Caltrans, SBCCOG	I-405: Widen southbound I-405 off-ramp to Rosecrans Ave. PM 19.36
		168	Caltrans, Torrance	I-405: At Artesia Bl, modify NB on-ramp from Artesia Bl WB to add a third lane onto NB I-405
	175	Caltrans, Lawndale	I-405: I-405 ramp improvements at Hawthorne Bl. (1) Reopen SB Hawthorne to NB I-405 (2) Upgrade signalization at I-405 SB and NB off-ramps Hawthorne Bl. PM 17.59	
204	Caltrans, Hawthorne	I-405: Implement I-405 at Rosecrans Access Point improvement project. PM 19.22		
182	Caltrans, Hawthorne	I-405: SB between Hindry Av and Rosecrans Avenue off ramp. PM 19.22/19.11		

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Freeway Operational Improvement Program	Freeway Interchange and Ramp Program	177	Caltrans, Hawthorne	I-405: Signalize intersection at bottom of SB Rosecrans off-ramp
		178	Caltrans, Lawndale, Redondo Beach	I-405: Widen NB Inglewood loop on-ramp to NB I-405. PM 18.20
		185	Caltrans, LA City	I-405: Widen SB on-ramp at 190th (just west of Western Av) from Western Av to 190th St
		170	Caltrans, LA City	I-405: Widen SB on-ramp from Western Av/190th St and I-405. PM 14.53
		166	Caltrans, SBCCOG, Inglewood	I-405: Widen southbound I-405 on-ramp from southbound La Cienega Blvd by adding a continuous Aux to SB I-405. PM 23.69
		171	Caltrans, SBCCOG	I-405: Widen the SB Inglewood on-ramp to SB I-405. PM 18.06
		901	Caltrans	I-710/Del Amo Interchange Reconfiguration - Reconfigure Interchange at I-710 and Del Amo (includes Del Amo/Susana improvement)
	201	Caltrans	South Bay Ramp and Interchange Improvements : Intersection and interchange improvements, signal synchronizations, ITS corridor improvements, auxiliary lanes, gap closures, and congestion relief, etc. on I-405, I-110, I-105, SR-91, and PCH.	
	Regional Facilities Freeway Improvements	1019	Caltrans, LA City, Port of Los Angeles	I-110: Vincent Thomas Bridge 110 Connector: (Port of Los Angeles)
		5003	The Port of Los Angeles, Caltrans	SR 47/Navy Way Interchange: Construction of interchange at SR-47 / Navy Way to eliminate traffic signal and movement conflicts; this project was a S.CA Trade Corridor Tier II TCIF project as submitted to the CTC in 2008; project removes last signal on SR 47 between Desmond and V. Thomas Bridges; NHS Intermodal Connector Route
1030		Caltrans, Port of Los Angeles	SR 47: V. Thomas Bridge/Front St Interchange: New Westbound SR 47 on- and off-ramps at Front St just West of Vincent Thomas Bridge and eliminate the existing non-standard ramp connection to the Harbor Blvd Off-ramp	
Managed Lanes - HOV Lanes / Express Lanes	Express Lane Improvements	1103	Caltrans	I-105: Add HOT Lane on 105 from 405 to 605. PM 1.63/17.82. EA 31450
		2069	Metro, Caltrans	I-110: Express Lane South Extension to I-405
		193	Caltrans, SBCCOG	I-405: Add Express Lanes on I-405 between I-110 and I-105
	HOV Connectors Improvements	163	Caltrans, SBCCOG	I-105/I-405: HOV Connectors from I-105 westbound to northbound and southbound I-405
		162	Caltrans, SBCCOG	I-110/I-105: Add HOV connectors from northbound I-110 to eastbound and westbound I-105
		165	Caltrans, SBCCOG	I-405/I-110: Reconstruct the NB I-405 connector to SB I-110 and HOV connector from SB I-405 to NB I-110
Freeway Capacity Expansion Improvements	I-405 Freeway Capacity Improvements	197	Caltrans, SBCCOG	I-405: Add 1 or 2 lanes to NB and SB I-405 between Inglewood northern border and I-110; consider inclusion of transit-only fixed guideways
		194	Caltrans, SBCCOG	I-405: Add northbound lane on I-405 from El Segundo Blvd to I-105
		1010	LA City, Caltrans	I-405: Widen from 3 to 4 lanes through interchange at I-110
	I-710 Freeway Capacity Improvements	2085	Caltrans, The Port of Los Angeles, Port of Long Beach, SCAG, GCCOG, SBCCOG, and the I-5 Joint Powers Authority	I-710: Widening and Freight Corridor. Widen to 10 Mixed Flow Lanes (Addition of Lanes Vary with I-710 Segments). Reconfigure Approx. 13 Local Access Interchanges Between Ocean Blvd/Shoreline Dr. and Atlantic Blvd/Bandini Blvd Arterial Improvements. Construction of Freight Corridor on I-710 (4 Truck Lanes with Dedicated Ingress/Egress at Select Locations (Harbor Scenic Drive, Ocean Blvd, Pico Ave, Anaheim Street, South of PCH, North of I-405 at 208TH Street, SR-91, Patata Street, Bandini Blvd, Washington Blvd and Sheila Street)). (Note: Cost not included here, it is represented on the Gateway Cities Mobility Matrix list)

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Program	Subprogram	MM Project ID	Jurisdiction	Description
ITS / Communications with Motorists Program	Freeway ITS Program	1104	Caltrans	I-105: Along I-105 between I-605 and Route 1 (ATM and TMS improvements)
	Arterial ITS Program	87	LA City	District 15 Intelligent Transportation System Improvements
		82	LA County	Hawthorne Blvd: ITS Improvement from Imperial Hwy to Manhattan Beach Blvd
		2030	Inglewood	Inglewood ITS - Phase IV Part B: Design and installation of fiber-optics on La Cienega Blvd., Centinela Ave., Florence Ave. and Prairie Ave. New CCTV, speed detection systems and web-based traveler information. Upgrade the current Traffic Control System (TCS) to Adaptive TCS and replace 5 Type 170 controllers with Type 2070 controllers on Prairie Ave.
		1075	Inglewood	Inglewood ITS - PHASE V : (1) Designs and constructs computerized traffic control and monitoring systems. (2) Expands central traffic control and advance traffic management at 39 intersections (3) improves 6.13 miles of fiber optic communications, (4) expands Closed Circuit Television Cameras (CCTV) at 10 intersections, (5) installs Changeable Message Signs (CMS) at 2 intersections, and (6) installs new communication hubs at 3 intersections.
		84	LA County	Manhattan Beach Blvd: ITS Improvement from Manhattan Ave to Van Ness Ave
		1083	Various	Metro/various: South Bay Baseline Arterial Performance Monitoring Implementation
		86	LA County	South Bay Forum ITS Improvements: Various
		1118	LA County	South Bay ITS Communications
		88	LA County	South Bay ITS Improvements
		1089	LA County	System Operations
	Other ITS Improvements	1048	Various	Implement South Bay Subregional ITS Plan
		1027	Hawthorne	Various: Municipal Wireless Network for Transportation communications
		290	Torrance Transit	Various: Real-Time Passenger information at all major stops and transfer points (Torrance Transit)
		2072	Redondo Beach: Beach Cities Transit	Various: Real-Time Passenger information at the Transit Center (Redondo Beach; Beach Cities Transit)
Local Streets State of Good Repair	Local Streets State of Good Repair Program	38	Hawthorne	120th St Improvement : Prairie Ave to Inglewood Ave
		39	Gardena	139th St Improvement - Ardath Ave to Budlong Ave
		40	Gardena	166th St Improvement - Berendo Ave to Gramercy Place
		4005	Torrance	Annual maintenance of roadways, citywide, inclusive of pavement, curb & gutter, access ramps, ADA pathways, lighting, ITS, signal equipment, etc...
		49	Redondo Beach	Arterials/Collectors Street Pavement Rehabilitation
		41	Gardena	Artesia Blvd: Street Improvement-Vermont Blvd to Western Ave
		198	SBCCOG	Coordination of Rehabilitation and Improvement of State Highways (non-freeway routes): between Caltrans, Metro and South Bay Cities Council of Governments
		43	Hawthorne	Crenshaw Blvd Improvement : 131st St to Rosecrans Ave
		29	Gardena	Crenshaw Blvd: Street Improvement- Redondo Beach Blvd to El Segundo Blvd, street improvement and signal improvements(6 signals) along the route.
		30	Hawthorne	El Segundo Blvd Improvement : Inglewood Ave to Crenshaw Blvd
		31	El Segundo	El Segundo Blvd Improvement : Sepulveda Blvd to Aviation Blvd
		44	Gardena	Gardena Blvd: Street Improvement - Vermont Ave to Western Ave
		32	Torrance	Hawthorne Blvd Improvement : 182nd St to Lomita Blvd
		63	Hawthorne	Hawthorne Blvd Improvement : El Segundo Blvd to Imperial Hwy
		105	LA County	LA County Traffic Signal Operation Improvements
		1108	El Segundo	Local and Arterial Street Maintenance and Repair and Pavement Rehabilitation
26	Inglewood, Los Angeles	Manchester Blvd and La Cienega Blvd Corridor improvement (with City of Los Angeles)		

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Local Streets State of Good Repair	Local Streets State of Good Repair Program	33	LA County	Normandie Ave: Street Improvement - 95th St to El Segundo Blvd
		60	Gardena	Normandie Ave; Street Improvement- El Segundo Blvd to 177th St
		50	LA County	Pavement Preservation
		46	Hawthorne	Prairie Ave Improvement : Imperial Blvd to Rosecrans Ave
		28	LA City	Redondo Beach Blvd Improvement : I-110 to Figueroa
		61	Gardena	Redondo Beach Blvd Improvement: Crenshaw Blvd to Vermont
		58	Lawndale	Redondo Beach Blvd: From Artesia to Prairie, roadway improvements and signal upgrades
		52	Redondo Beach	Residential Street Pavement Rehabilitation
		34	Manhattan Beach	Sepulveda Blvd Improvement : Rosecrans to Artesia Blvd
		35	El Segundo	Sepulveda Blvd. Improvement : Imperial Hwy to El Segundo Blvd
		25	LA County	Sidewalk, Curb, Parkway Preservation; Repair and Reconstruction
		140	SBCCOG	State Highway Bridge and major arterial seismic retrofit program (Manhattan Overhead) at Route 1. PM 23.70/23.80
		54	Manhattan Beach	Street Improvements - Annual Rehabilitation
		47	Redondo Beach	Traffic Signals and Street Lights - Regular Deferred Maintenance
		Bikeways Program	Bikeways Program	211
240	Torrance, Hermosa Beach, Redondo Beach			190th St/Herondo Anita: South Bay Bike Trail Harbor Drive to Western Ave
219	LA County			223rd Street; Normandie Ave to I-110; Class 2 Bike Lanes
212	Inglewood			90th St: Prairie Av to Crenshaw Bl
207	Torrance			Anza Ave: Sepulveda Bl to PCH Bike/Ped Improvements
241	LA City, Inglewood			Arbor Vitae St : Crenshaw Bl to Arlington Av
242	LA City, Inglewood			Arbor Vitae St : LA, Inglewood Arbor Vitae St Sepulveda Bl to Prairie Av
2012	Manhattan Beach			Artesia Bl. Bike Lane - Sepulveda Bl. to Aviation Bl.
220	LA County			Aviation Blvd; Imperial Hwy to 124th St; Class 2 Bike Lanes
2016	Manhattan Beach			Bell Avenue Bike Lane/Path
213	Torrance			Cabrillo Bikeway: Sepulveda Bl to Torrance Bl
278	SBCCOG			Car and bike sharing programs
214	LA County			Compton Creek Bike Trail: Bike Trail Class 1 Facility/Connector between Del Amo Bl and LA River Bike Trail
236	Inglewood			Crenshaw Bl : I-105 to 90th St
221	LA County			Crenshaw Bl; in Palos Verdes Peninsula; Class 2 Bike Lanes
222	LA County			Del Amo Blvd; Normandie Ave to I-110; Class 2 Bike Lanes
218	LA County			Dominguez Channel Bike Trail: Bike Trail Class 1 Facility/Connector from Main St to Wilmington
208	LA County			Dominguez Channel: Redondo Beach Blvd to Vermont Ave; Class 1 Bike Path
209	LA County			Dominguez Creek Bike Path; Main St to Pacific Coast Hwy; Class 1 Bike Path
244	Gardena, Torrance			Dominguez Creek Channel: Near El Camino College to Western Av
223	LA County	El Segundo Blvd; Isis Ave to Inglewood Ave; Class 2 Bike Lanes		
			El Segundo Commuter Bikeways-	
1084	El Segundo	Aviation Blvd, Douglas St., and Nash St. Establish three bicycle corridors within the city limits which are near large employers and adjacent to green line stations.		
210	Torrance	Enhanced Bicycle right-of-way and rack		
1031	LA City	Figueroa Street: Bicycle improvements from 146th Street to Redondo Beach Blvd		



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Program	Subprogram	MM Project ID	Jurisdiction	Description
Bikeways Program	Bikeways Program	206	Various	I-405: Implement bikeway projects throughout the I-405 corridor (approx. 24 miles of Class II and 1.6 miles of Class I: Corridor-wide
		245	LA City and County	Imperial Hwy: Aviation Bl to Arlington Av
		224	LA County	Imperial Hwy; La Cienega Blvd to Inglewood Ave; Class 2 Bike Lanes
		225	LA County	Imperial Hwy; Van Ness Ave to Vermont Ave; Class 2 Bike Lanes
		238	El Segundo	Installation of bike routes and related support facilities throughout El Segundo's major and minor arterials, including Aviation Blvd., El Segundo Blvd., Nash St., Douglas St., Grand Ave., Rosecrans, Mariposa, Imperial Ave. Main St., Loma Vista, Sheldon and Center St.
		250	LA City, Inglewood	La Brea Av: Exposition Bl to Imperial Hwy
		226	LA County	La Cienega Blvd; Imperial Hwy to El Segundo Blvd; Class 2 Bike Lanes
		228	LA County	Local Bikeways; Class 2 & Class 3 Bikeways on Local Streets
		246	Lomita	Lomita Bl (east segment): Crenshaw Bl to Western Av
		215	Torrance	Lomita Bl (west segment) Anza Av to Hawthorne Bl
		216	LA City, Lawndale, Manhattan Beach, Redondo Beach	Manhattan Beach Bl: South Bay Bike Trail to Dominguez Channel
		229	LA County	Manhattan Beach Blvd; Prairie Ave to Crenshaw Blvd; Class 2 Bike Lanes
		2015	Manhattan Beach	Manhattan Beach Citywide Bike Friendly Streets - Redondo Ave, Meadows Ave. Peck Ave. 15th St, 2nd St.
		2018	Manhattan Beach	Manhattan Beach Citywide Bike Racks and Lockers
		267	Manhattan Beach	Manhattan Beach: Bikeway/Pedestrian Improvements - Annual misc non-motorized transportation improvements; (construct crosswalk, bike lances, etc.)
		230	LA County	Marine Av; Gerkin Ave to Crenshaw Blvd; Class 2 Bike Lanes
		2011	Manhattan Beach	Marine Ave. Bike Lanes - Sepulveda Bl. to Aviation Bl.
		231	LA County	Normandie Avenue; 225th St to Sepulveda Blvd; Class 2 Bike Lanes
		2014	Manhattan Beach	Parkway Dr. and Redondo Ave. Bike Lane/Paths
		217	Torrance	Prairie Av: Artesia to Redondo Beach Bl
		232	LA County	Prairie Ave; Redondo Beach Blvd to Marine Ave; Class 2 Bike Lanes
		247	LA County, Lawndale, Gardena, Torrance	Redondo Beach Bl : Hawthorne Bl to Western Av
		233	LA County	Redondo Beach Blvd; Prairie Ave to Crenshaw Blvd; Class 2 Bike Lanes
		2017	Manhattan Beach	Rosecrans Ave. Bike Lanes/Path-Sepulveda Bl. to Aviation Bl.
		5000	LA City - San Pedro	San Pedro Community: Complete Bike Network in City of LA, San Pedro Community, including connections on 1st Street, 25th Street, 9th Street, Grand Avenue, Gaffey Street, and Westmont Drive, as well as the Greenway Network reference in the General Plan Framework.
		2000	LA City - Harbor Gateway	San Pedro: City initiation of the development of proposed Bikeways along power line rights-of-way, flood control channels and abandoned railroad property. Landscaping of street medians is also proposed, where feasible.
		2013	Manhattan Beach	Valley Dr./Ardmore Ave. Bike Path - Sepulveda Bl. to Longfellow Ave.
		239	Torrance	Western Av: 223rd St to 190th St
		235	LA County	Western Ave; 120th Street to El Segundo Blvd; Class 2 Bike Lanes
		5001	City of Los Angeles	Wilmington-Harbor City Area Bikeway System: Complete the City of LA, Wilmington-Harbor City Area Bikeway System: (1) Implement the proposed Bikeway Master Plan in the Bikeway Five Year Program and the 20- year Plan for the Wilmington-Harbor City area along the Dominguez Channel, Anaheim Street, Avalon Blvd, and Figueroa Street.

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Pedestrian Program	Pedestrian Program	259	SBCCOG	Beach access/circulation improvements and parking visitor information/way-finding
		2024	Manhattan Beach	Bell Ave./Blanche Ave./24th St./25th St. Crossing Realignment
		4007	El Segundo	High Pedestrian Crossing Improvements - Main St, near schools
		2019	Manhattan Beach	Highland Ave. Walk Street Crossings
		260	LA County	LA County Pedestrian Improvements; Construct New Sidewalk
		264	LA County	Los Angeles County: Pedestrian Improvements
		263	Manhattan Beach	Manhattan Beach Annual Pedestrian Improvements
		2020	Manhattan Beach	Manhattan Beach Downtown Pedestrian Crossing Enhancements
		265	Manhattan Beach	Manhattan Beach New Pedestrian Improvements
		3006	Torrance	Pedestrian overpass across Hawthorne Blvd at Del Amo Fashion Center and Financial Center
		258	Redondo Beach	Pedestrian Path of Travel Improvements (including sidewalk, curb, gutters, ramps, and storm drain inlet devices)
		2021	Manhattan Beach	Sepulveda Bl. Crossing Treatments
		262	LA County	Sidewalk Curb Parkway Preservation
		261	LA County	Vermont Ave; 92nd St to El Segundo Blvd; Regional Pedestrian Trail
		2023	Manhattan Beach	Veterans Parkway Pedestrian Crossing Enhancements
Complete Streets / Slow Speed Lanes Program	Complete Streets Program	2022	Manhattan Beach	Center Place and 11th St. Walk Streets-Ocean Dr. to Morningside Dr.
		5002	City of Los Angeles	Complete Streets Program for San Pedro. 5th Street: Conversion of 5th Street from Harbor Boulevard to Pacific Avenue into a one lane one-way westbound with angled parking. 7th Street: Conversion of 7th Street from Harbor Blvd to Pacific Ave into a one lane one-way eastbound with angled parking. 6th Street create a Pedestrian Priority Street from Pacific to Harbor N. Pacific Ave. Pedestrian street between 3rd St - 9th Street. 8th Street: Pedestrian Street: Between S. Weymouth Ave + S Walker Ave.
		271	SBCCOG	Develop "complete streets" designed to accommodate Neighborhood Electric Vehicles
		3000	Lawndale	Develop and Implement Citywide Mobility Plan and Complete Streets Guidance
		4001	El Segundo	El Segundo Blvd - Complete Street between Whiting and Sepulveda Blvd.
		2053	LA City - San Pedro Ports O'Call	Sampson Way: proposed expansion of Sampson Way into a scenic boulevard along the west perimeter of Ports O'Call Village, and the creation of an extensive network of public promenades, bikeways, and Coastal Trail connections will facilitate public access throughout the waterfront area to better connect the waterfront with downtown San Pedro and the surrounding community.
		2044	LA City - San Pedro	San Pedro priority transit routes. The San Pedro Community Plan identifies transit priority streets. Transit priority streets are arterials where bus use is prioritized. The design of these streets should support the comfortable use of transit, utilizing wide sidewalks, landscaping, attractive street furniture and well designed bus stops/shelters. Pedestrian amenities, such as trash cans and benches, and safety measures, such as pedestrian lighting and special crosswalk paving, help support a pedestrian-friendly environment along these streets. Roadway construction features should include concrete bus pads and other features to address the extra maintenance issues associated with high volumes of bus traffic. Transit priority streets include: Western Avenue between 25th and North San Pedro boundary ; Harbor Boulevard between Vincent Thomas Bridge and 17th Street; Pacific Avenue between Bluff Pl and John S. Gibson Boulevard; 5th Street between Pacific Avenue and Harbor Boulevard; and 7th Street between Harbor Boulevard and Weymouth Street.
	4000	Rancho Palos Verdes, LA City, Caltrans	Western Ave (SR213) - Complete Street Project	
Slow Speed Implementation Program	Slow Speed Implementation Program	266	SBCCOG	Slow Speed Lane Implementation Program

APPENDIX C. South Bay Mobility Matrix - DRAFT Consolidated Project/Program List

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Transportation Management Systems (Traffic Operations Centers, Traffic Signals, Emergency Management)	Freeway TMS Program	1106	Caltrans, Los Angeles, Hawthorne, Inglewood	I-105: From Imperial Hwy to Rte 110, Post Mile 0.0/7.264, upgrade Transportation Management System
		1105	Caltrans, Los Angeles	I-110: From 9th Street to I-5, PM 0.00/25.75, Install Transportation Management System and upgrade for life cycle replacements of the TMS for the connected corridor
		181	Caltrans, Los Angeles, LA County, Inglewood	I-405/I-105/SR-90: NB and SB I-405 "Add connector metering and ramp metering between I-105 and SR-90 interchanges". PM R21.18/25.94
		2029	Caltrans, Los Angeles, Inglewood, Culver City	I-405: From Rte 105 to Rte 10, Postmile 21.175/29.5, Upgrade Transportation Management System
		200	Caltrans, Metro	I-405: Expand operations of FSP Corridor-wide (yearly)
		199	Caltrans, Metro	I-405: Expand operations of FSP throughout Segment B of I-405 Yearly
		1107	Caltrans, Los Angeles, Carson, Torrance, Lawndale, Redondo Beach, Hawthorne	I-405: From Alameda Street to Rte 105, Postmile 8.78/21.175, upgrade transportation management system
	Subregional Traffic Management Center	203	SBCCOG	Implement a Sub-Regional Traffic Management Center
	Arterial Messaging System	3003	Various	Arterial Messaging System
	Event/Emergency Management System Program	3002	Various	Community Notification System
		3004	Hawthorne, El Segundo, Redondo Beach, Hermosa Beach, Gardena, and Manhattan Beach	Emergency Vehicle Priority System
		3005	El Segundo, Gardena, Hawthorne, Hermosa Beach, Manhattan Beach, Redondo Beach	Emergency Vehicle Priority System Upgrades. Implement adding emergency vehicle dynamic signing at 100 intersections equipped with emergency vehicle priority equipment in the cities of Hawthorne, El Segundo, Redondo Beach, Hermosa Beach, Gardena and Manhattan Beach.
		116	Carson	StubHub Arena Event Management System
		2046	LA City - San Pedro	Tsunami evacuation route. Work with the Emergency Management Department and the Fire Department to change the tsunami evacuation route from 6th Street to 7th Street, should 6th Street be closed to motorized vehicles in the future.
	Traffic Signal Synchronization Projects	1110	LA County	120th Street (EAST) TSSP; Western Ave to Vermont Ave; Traffic Signal Synchronization
		1111	LA County	120th Street (WEST) TSSP; Aviation Bl to Van Ness Ave; Traffic Signal Synchronization
		1112	LA County	135th Street TSSP; Yukon Ave to Avalon Bl; Traffic Signal Synchronization
		1113	LA County	182nd Street/Albertoni Street; Inglewood Ave to Avalon Bl signal synchronization
		111	LA County	Anza Av: 190th St to Pacific Coast Hwy signal synchronization
		97	LA County	Avalon Boulevard TSSP; 126th St to Sepulveda Bl; Traffic Signal Synchronization
		1114	LA County	Crenshaw Boulevard (NORTH) TSSP; Manchester Ave to Rosecrans Ave signal synchronization
		107	LA County	Del Amo Bl : Avalon Bl (EAST) to Susana Road signal synchronization
		1115	LA County	Del Amo Boulevard (WEST) TSSP; Prospect Ave to Western Ave signal synchronization
98		LA County	El Segundo Boulevard TSSP; Illinois St to Vermont Ave; Traffic Signal Synchronization	

APPENDIX C. South Bay Mobility Matrix - DRAFT Consolidated Project/Program List

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Transportation Management Systems (Traffic Operations Centers, Traffic Signals, Emergency Management)	Traffic Signal Synchronization Projects	1109	LA County	Hawthorne Bl : 104th St to Imperial Hwy signal synchronization
		110	LA County	Hawthorne Bl : 244th St to Palos Verdes Dr W signal synchronization
		92	LA County	Hawthorne Bl : Imperial Hwy to Manhattan Beach Bl signal synchronization
		99	LA County	Imperial Highway TSSP; Sundale Ave to Budlong Ave; Traffic Signal Synchronization
		93	LA County	Inglewood Av : 104th St To 111th Pl signal synchronization
		94	LA County	La Brea Av : Centinela Av to Century Bl signal synchronization
		1116	LA County	La Cienega Boulevard TSSP; Slauson Avenue to El Segundo Blvd signal synchronization
		1066	Lawndale	Lawndale Various Citywide Traffic Signal Improvements Citywide
		108	LA County	Lennox Bl : Inglewood Av to Freeman Av signal synchronization
		109	LA County	Manhattan Beach Bl : Manhattan Av to Van Ness Av signal synchronization
		95	LA County	Normandie Av : 89th St to El Segundo Bl signal synchronization
		101	LA County	Redondo Beach Boulevard; Artesia Bl to Vermont Ave; Traffic Signal Synchronization
		102	LA County	Rosecrans Avenue TSSP; Highland Ave to Ocean Gate Ave; Traffic Signal Synchronization
		103	LA County	Rosecrans Avenue TSSP; Ocean Gate Ave to Vermont Ave; Traffic Signal Synchronization
		104	LA County	South Bay Arterial Operational Improvements, Signal Synchronization, Backbone network redundancy, CCTV @ 16 locations
		1117	LA County	Van Ness Ave TSSP; Imperial Hwy to Torrance Bl signal synchronization
		106	LA County	Western Av : 104th St to 111 St signal synchronization
2055	LA City - Wilmington-Harbor City	Wilmington-Harbor City's signalized intersections are integrated with the City's ATSAC system		
Goods Movement	Regional Goods Movement Program	5004	Port of Los Angeles and Port of Long Beach	New Cerritos Channel Rail Bridge
		5005	Port of Los Angeles	Pier 400 Second Lead Track
		5006	Port of Los Angeles	Port of Los Angeles Improvements: 1) WBCT On-Dock Rail: Addition of 2 new loading tracks; 2) YTI On-Dock Rail: Addition of 1 new loading track; 3) Pier 400 Rail Expansion-Phase 1; 4) Pier 300 Rail Expansion: Addition of 2 new loading tracks; 5) Seaside Yard: Dedicated on-dock rail yard for Berth 226-236 terminal (Evergreen); 6) Terminal Island Support Yard; 7) Berth 200 Railyard Expansion: Additional Storage/working tracks; 8) Port of LA Container Movement Enhancement Program: WBCT wharf improvements, YTI wharf improvements and Pier 300 wharf improvements
		139	SBCCOG	South Bay Goods movement projects related to Port of Los Angeles and LAX
		5007	Port of Los Angeles and Port of Long Beach	Triple Track S.O Thenard
Grade Separation and Crossing Projects	Grade Crossing Improvement Projects	131	Carson, LA City, LA County, Torrance	Carson St : Improve striping
		132	El Segundo	Imperial Hwy: Additional signage and improved striping; roadway improvements at crossing
		135	Redondo Beach, Lawndale	Inglewood Av : Adjust signal timing and install raised median
		133	Inglewood	La Brea Av : Installation of a pre-signal, additional signage and improved striping
		134	Inglewood	La Cienega Bl : Additional signage and improved striping
		136	Lawndale	Manhattan Beach Blvd: Improve drainage to prevent failure of crossing gates
		129	Redondo Beach, Hawthorne	Marine Av: Additional signage and improved striping (and intersection modification). Goods movement and safety enhancement at RR tracks.
137	LA City, Torrance (Caltrans)	Sepulveda Bl: Adjust signal timing at Western Av/Sepulveda Bl to reduce queuing over tracks		

APPENDIX C. South Bay Mobility Matrix - DRAFT Consolidated Project/Program List

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Grade Separation and Crossing Projects	Grade Crossing Improvement Projects	130	Torrance	Torrance BI: Adjust signal timing to relieve queuing at Torrance BI crossing: Torrance Crenshaw BI Adjust signal timing to relieve queuing at Torrance BI crossing
		138	Torrance	Western Av: Revise warning time and gate down operations related to train switching maneuvers
	Subregional Grade Separation Program	125	Manhattan Beach, El Segundo, Hawthorne; SBCCOG	Aviation BI/Rosecrans Av Grade Separation: Grade sep Aviation BI under Rosecrans Av for free-flow north-south movements via tunnel & at-grade east-west movements at signalized intersection
		3008	Torrance	Grade Separation between rail and street at: Torrance Blvd, Carson St., Sepulveda Blvd, and Western Ave
		141	Caltrans, SBCCOG	I-405: NB I-405 Construct grade separation at La Cienega Blvd and Manchester Blvd. PM 23.64/23.35
		1033	Inglewood	La Cienega Boulevard: La Cienega Expressway: complete gaps in La Cienega Blvd. grade separation
		127	El Segundo	Park Place: Roadway extension of Park Place and railroad grade separation between Sepulveda Blvd. and Nash St. (roadway does not currently exist - this is a gap closure project) to help relieve traffic on Rosecrans between Sepulveda Blvd. and the I-405, and on Sepulveda between El Segundo Blvd and Marine Ave.
		3007	Torrance	Plaza Del Amo Extension and Grade Separation
Paratransit (Dial-a-Ride, Senior/ Disabled)	Paratransit Program	2086	Torrance	Construct and operate a Regional Mobility Center to assist senior and disabled patrons.
Metro / Municipal Transit Capacity Expansion	Metro Harbor Subdivision/ Green Line Southern Extension to Torrance and Maintenance Facility	296	Metro, SBCCOG	Metro Harbor Subdivision/Green Line Southern Extension to Torrance with Maintenance Facility (underfunded)
	Metro Harbor Subdivision/ Green Line Extension from Torrance to Long Beach Blue Line	4008	Metro	Metro Harbor Subdivision/Green Line Extension from Torrance to Long Beach Blue Line
	Metro Harbor Subdivision/ Green Line Extension from Torrance to San Pedro	4009	Metro	Metro Harbor Subdivision/Green Line Extension from Torrance to San Pedro
	Bus Rapid Transit Program	285	SBCCOG	High frequency South Bay Municipal operator "Rapid" lines for regional connectivity to South Bay Rail and Express Bus Stations
		286	LA City, LA County, Inglewood	Increase Metro Rapid Service To San Fernando Valley
	Bus Expansion Program	300	LA City, Long Beach, Redondo Beach, Torrance	Add transit service connection to downtown Long Beach to South Bay Galleria
		2090	Torrance	Carson Street Corridor service - Del Amo Mall to Del Amo Station

APPENDIX C. South Bay Mobility Matrix - DRAFT Consolidated Project/Program List

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Metro / Municipal Transit Capacity Expansion	Bus Expansion Program	3012	Torrance	Creation of on-street layover bays in sub-regional HUB areas (add restrooms where possible). Additional Operating funding for service expansion.
		4006	Various	Demand Responsive Transportation Program
		2096	Torrance	Downtown Circulator Service
		2095	Torrance	Expansion and Replacement Buses
		288	El Segundo, Hermosa Beach, Manhattan Beach, Redondo Beach	Increase Airport express bus service from LAX to South Bay
		284	Torrance Transit	Increase Express bus service on I-405
		280	Downey, LA City, LA County, Lynwood, Norwalk, Paramount	Increase feeder bus service to Metro Green line and Harbor Transit way – Metro Green Line (Lines 40, 232, 439); Harbor Transit way (Lines 442, 445, 550)
		268	SBCCOG, LA City	Municipal and Local Transit Capital and Operations and Paratransit Services (e.g., DASH) Capital and Operations unmet funding needs and expansion of services
		2094	Torrance	Provide additional circulator service within Torrance boundaries to connect with RTC
		2091	Torrance	Sepulveda Corridor service - Redondo Beach Pier to Willow Station
		2089	Torrance	Torrance to Disneyland/Metrolink (Orange County) via CA-91
		2092	Torrance	Torrance to Orange County Metrolink - via I-405 HOT Lane
		2088	Torrance	Torrance to UCLA/West LA Job Centers via I-405
Metro / Municipal Transit Incremental Operational Costs from Capacity Expansion	Transit Operations Program	2071	Redondo Beach: Beach Cities Transit	Annual maintenance and operations funding for RB South Bay Regional TC
		306	Torrance Transit	Annual maintenance and operations funding for RTC
		2064	Manhattan Beach, El Segundo	Annual Summertime Beach/Downtown Circulator Bus System
		2075	Redondo Beach: Beach Cities Transit	Operating funds for business districts shuttles to RB South Bay TC
		283	Torrance Transit	Operating funds for RTC to DAFC shuttle
		282	Torrance Transit	Reduce peak period headways on selected local and express transit at various locations to be determined
Metro / Municipal Transit Maintenance and Rehab	Green Line: Miscellaneous capital and operational improvements to existing line	301	Metro, El Segundo, Hawthorne, City of LA City, LA County	Green Line: Miscellaneous capital and operational improvements to existing line. Improvements include adding tail tracks and crossovers at the Redondo Beach Station and extending station platforms to allow for 3-car trains at Aviation/LAX, Mariposa, Douglas, and Redondo Beach stations.
	Transit Maintenance and Rehab Program	2097	Torrance	Bus Stop Improvements
		2065	Manhattan Beach	Citywide Bus Shelters and Amenities
		3011	Torrance	Increase Maintenance Capacity - Add Mechanics, Paint & Body Personnel, Hardware Electronics Expert, new Maintenance Bays.

APPENDIX C. South Bay Mobility Matrix - DRAFT Consolidated Project/Program List

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Metro / Municipal Transit Maintenance and Rehab	Transit Maintenance and Rehab Program	303	SBCCOG	Preventive Maintenance / Rehabilitation of Transit (Bus & Rail)
		304	Manhattan Beach	Public Transit Services Annual Operating
		2073	Redondo Beach: Beach Cities Transit	Rehabilitation of Transit Maintenance and Operations Facility
Transit Centers / Park and Ride	Transit Center/Park and Ride/Multi Modal Center Program	1081	Torrance	Crenshaw Blvd Torrance Transit Center Roadway Improvements - From Del Amo to Dominguez: 3 Southbound turn lanes @ Del Amo Blvd, 208th St, Transit Center Entrance, Signal Improvements at 2 and new signal @ Transit Center
		2033	LA City - San Pedro	Develop multi modal center in or near downtown San Pedro.
		277	Metro	Expand Artesia Station park-and-ride facility
		273	Torrance	Furniture and Equipment to complete Phase I of the Regional Park and Ride Facility (RTC)
		1020	LA County, LA City - Harbor Gateway	Harbor Freeway Transit way and Transit Center (Artesia Transit Center): Expand park & ride facility.
		275	Torrance	Pacific Coast Highway/Hawthorne Blvd Park and Ride structure
		276	Gardena	Park and Ride facility - southwest corner of El Segundo/Vermont and southwest El Segundo/Western
		1082	Torrance	PCH/Hawthorne Park and Ride
		274	Torrance	Phase II of the Regional Parking and Ride Facility (Parking Structure)
		1054	Torrance	Torrance Regional Transit Center- 465 Crenshaw Boulevard: Construct a regional Transit Center including an 8 bus berth transit center building, a kiss-n-ride passenger drop-off, and a park-and-ride vehicle lot for 250 vehicles for the initial parking space provision
		2070	Redondo Beach: Beach Cities Transit	Upgrade to Transit Center parking lot for Green Line extension
Car Sharing / Ride sharing / Vanpool / Telecommuting Programs	Car Sharing / Ride sharing / Telecommuting / Vanpool Program	278	SBCCOG	Car and Bike Sharing Programs
		4004	Various, SBCCOG	Telecommuting Program
Sustainability SB Plan (Neighborhood-Oriented Development, 1st/Last Mile)	First/Last Mile Program	252	SBCCOG	"First/Last-mile" connections for transit; Metro Green Line, I-110 Express Lanes station
		253	SBCCOG	"First/Last-mile" connections for transit; Transit hubs for ease of transfers. Up to 12 new/upgraded stations
		254	LA County	Aviation Blvd/LAX Green Line Station: Transit Oriented District; First Mile/Last Mile Active Transportation Access Improvements
		255	LA County	Hawthorne/Lennox Green Line Station; Transit Oriented District; First Mile/Last Mile Active Transportation Access Improvements
		256	LA County	I-110/West Carson Transit Center; Transit Oriented District; First Mile/Last Mile Active Transportation Access Improvements
		1098	Redondo Beach: Beach Cities Transit	Improve access to/from Transit Center/Green Line Extension station near Artesia Blvd/Kingsdale Ave/South Bay Galleria areas
		307	Torrance	Pedestrian walkway and elevators from proposed rail station to bus bay
		257	LA County	Vermont/Athens Green Line Station; Transit Oriented District; First Mile/Last Mile Active Transportation Access Improvements

**APPENDIX C. South Bay Mobility Matrix - DRAFT Consolidated Project/Program List**

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Program	Subprogram	MM Project ID	Jurisdiction	Description
Sustainability SB Plan (Neighborhood-Oriented Development, 1st/Last Mile)	Mobility/Sustainability Education and Incentive Program	3009	Various	Enhance Mobility/Sustainability Education and Incentive Program
	Neighborhood-Oriented Development Program	279	SBCCOG	Establish and implement "Neighborhood-Oriented Development" Program
	Subregional Sustainability Transportation Program	272	SBCCOG	Sub-regional Sustainability Transportation Program
Vehicle Conversion (Electric Vehicle, Slow Speed Vehicle)	Vehicle Conversion (Electric Vehicle, Slow Speed Vehicle) Program	3010	Torrance	Alternative Fueling Infrastructure (Program at various locations)/Electric Charging Stations at City facilities and parks
		269	Torrance	CNG Station (Madrona Site) upgrade
		2074	Redondo Beach: Beach Cities Transit	CNG Station at Transit Maintenance and Operations Facility
		281	Torrance Transit	Fleet modernization project-replacement of diesel buses with hybrid buses by the end of 2015
		270	SBCCOG	South Bay Plug-in Electric Vehicle Public Infrastructure Program throughout the subregion
Transportation Enhancement / Beautification Programs	Transportation Enhancement / Beautification Program	1	LA County	LA County Aesthetics Beautification
		2048	LA City - San Pedro	San Pedro Scenic Highways. Improvements on 25th Street between the westerly Plan area boundary and Western Avenue; Paseo Del Mar; Harbor Blvd; and Western Ave between 25th Street and Paseo Del Mar
		2049	LA City - San Pedro	San Pedro Streetscapes. Implement a streetscape plan for 6th Street between Pacific Blvd. and Harbor Blvd. Implement streetscape plans for N. and S. Gaffey St.
		305	Torrance Transit	Solar lighting at RTC, Bus Shelters and stops

\* Jurisdiction" may refer to the lead project sponsor, the jurisdiction where the project exists, or the agency that proposed the addition of the project. Projects without specified jurisdictions were sourced from other planning documents (e.g., Metro Long Range Transportation Plan and others) where no lead or proposing agency was listed.







## **2h. Westside Cities**

- 1. Detailed Cost Estimate Ranges**
- 2. Summary of Cost Estimates and Categorizations**
- 3. Performance Evaluations**
- 4. Project Descriptions**



## **Westside Cities**

### **1. Detailed Cost Estimate Ranges**

**Table 5-2. Westside Cities Mobility Matrix Program Cost Estimate Ranges and Categorizations (2015 Dollars)<sup>1</sup>**

Westside Cities Mobility Matrix Projects & Programs	Total Projects	Projects with Costs	Short Term (0 to 10 Years)		Mid Term (11 to 20 Years)		Long Term (20 plus Years)	
			Low	High	Low	High	Low	High
Bicycle Program	75	47	\$ 26,023,800	\$ 48,183,300	\$ 26,023,800	\$ 48,183,300	\$ 26,023,800	\$ 48,183,300
Citywide Bicycle Master Plan Program	7	7	\$ 436,982,700	\$ 664,814,700	\$ 436,982,700	\$ 664,814,700	\$ 436,982,700	\$ 664,814,700
Livable Boulevards and Streetscapes Program	51	43	\$ 52,965,000	\$ 80,125,000	\$ 52,965,000	\$ 80,125,000	N/A	N/A
Mobility Hubs Program	1	1	\$ 17,340,000	\$ 26,010,000	\$ 17,340,000	\$ 26,010,000	N/A	N/A
Education and Encouragement Program	11	11	\$ 1,795,200	\$ 2,692,800	\$ 1,795,200	\$ 2,692,800	\$ 1,795,200	\$ 2,692,800
First-Last Mile Program	23	14	\$ 12,270,000	\$ 18,775,000	\$ 12,270,000	\$ 18,775,000	N/A	N/A
Pedestrian Program	26	14	\$ 26,782,000	\$ 40,174,200	\$ 26,782,000	\$ 40,174,200	\$ 26,782,000	\$ 40,174,200
Safe Routes to School Program	8	5	\$ 165,557,700	\$ 248,334,900	\$ 165,557,700	\$ 248,334,900	\$ 165,557,700	\$ 248,334,900
Sidewalk State of Good Repair Program	3	1	\$ 132,000	\$ 198,000	\$ 132,000	\$ 198,000	\$ 132,000	\$ 198,000
Capacity Enhancement Program	43	35	N/A	N/A	\$ 106,860,000	\$ 167,840,000	N/A	N/A
Complete Streets Program	20	12	\$ 17,348,100	\$ 26,023,800	\$ 17,348,100	\$ 26,023,800	\$ 17,348,100	\$ 26,023,800
ITS Program	25	15	\$ 79,080,000	\$ 118,620,000	N/A	N/A	N/A	N/A
State of Good Repair Program	4	1	\$ 2,349,600	\$ 3,524,400	\$ 2,349,600	\$ 3,524,400	\$ 2,349,600	\$ 3,524,400
Traffic Calming Program	5	3	\$ 89,555,000	\$ 134,335,000	\$ 89,555,000	\$ 134,335,000	N/A	N/A
Goods Movement Program	1	1	\$ 792,000	\$ 1,188,000	\$ 792,000	\$ 1,188,000	\$ 792,000	\$ 1,188,000
Technology Program	3	3	\$ 2,400,000	\$ 3,600,000	\$ 2,400,000	\$ 3,600,000	N/A	N/A
Parking Parking	17	9	\$ 33,610,000	\$ 50,410,000	N/A	N/A	N/A	N/A
Shared Ride Program	8	5	\$ 70,080,000	\$ 105,120,000	N/A	N/A	N/A	N/A
TMA Program	7	4	\$ 32,400,000	\$ 48,600,000	N/A	N/A	N/A	N/A
Crenshaw Line extension to Hollywood	1	1	N/A	N/A	N/A	N/A	\$1,140,610,000	\$1,242,100,000
Sepulveda Pass Transit Corridor	3	3	N/A	N/A	N/A	N/A	\$1,950,300,000	\$10,138,730,000

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Westside Cities Mobility Matrix Projects & Programs	Total Projects	Projects with Estimated Costs	Short Term (0 to 10 Years)		Mid Term (11 to 20 Years)		Long Term (20 plus Years)	
			Low	High	Low	High	Low	High
Purple Line extension Century City to Westwood/VA	1	1	\$ 426,360,000	\$ 639,540,000	\$ 426,360,000	\$ 639,540,000	\$ 426,360,000	\$ 639,540,000
Purple Line extension to Downtown Santa Monica	1	1	N/A	N/A	N/A	N/A	\$ 825,680,000	\$ 1,238,520,000
Purple Line West Hollywood Extension	1	1	N/A	N/A	N/A	N/A	\$2,395,760,000	\$ 3,593,640,000
Lincoln Bl BRT/LRT	4	4	N/A	N/A	\$ 727,640,000	\$ 915,060,000	\$ 727,640,000	\$ 915,060,000
BRT Program	8	6	N/A	N/A	\$ 130,560,000	\$12,906,560,000	N/A	N/A
Bus/Shuttle Program	36	14	\$ 207,610,000	\$ 311,410,000	\$ 207,610,000	\$ 311,410,000	N/A	N/A
Bus/Rail Integration Program	8	2	\$ 2,692,800	\$ 4,039,200	\$ 2,692,800	\$ 4,039,200	\$ 2,692,800	\$ 4,039,200
Transit Technology Program	7	7	\$ 12,400,000	\$ 18,600,000	N/A	N/A	N/A	N/A
Rail Program	2	2	\$ 422,677,200	\$ 460,940,700	\$ 422,677,200	\$ 460,940,700	\$ 422,677,200	\$ 460,940,700
State of Good Repair Program	9	0	COSTS IN DEVELOPMENT					
Bus Station/Stop Improvement Program	7	4	\$ 7,160,000	\$ 10,740,000	N/A	N/A	N/A	N/A
I-10 Robertson Interchange Program	1	1	N/A	N/A	\$ 20,000,000	\$ 30,000,000	\$ 20,000,000	\$ 30,000,000
I-10 Carpool Lanes (Lincoln Bl - I-5)	1	1	N/A	N/A	N/A	N/A	\$2,024,000,000	\$3,036,000,000
ITS Program	6	1	\$ 2,700,000	\$ 4,050,000	\$ 2,700,000	\$ 4,050,000	N/A	N/A
Main Line Program	11	1	N/A	N/A	\$ 4,800,000	\$ 7,200,000	N/A	N/A
Ramp Program	19	4	\$ 13,728,000	\$ 20,592,000	\$ 13,728,000	\$ 20,592,000	\$ 13,728,000	\$ 20,592,000

<sup>1</sup>Notes: Estimated costs in 2015 dollars.

NA – Not applicable.

These estimates under represent the operations and maintenance costs due to limitations of data availability. Costs are also underestimated due to projects and programs where cost estimate ranges are still under development. Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. Any subregional cost sharing agreements will be determined through future planning efforts.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**





## **Westside Cities**

### **2. Summary of Cost Estimates and Categorizations**

**Table ES-4. Westside Cities Mobility Matrix Summary of Rough Order of Magnitude Cost Estimates and Categorizations**

Type / Category	Active Transportation	Arterial	Goods Movement	TDM	Transit	Caltrans	Total
<b>Short-Term (0-10 yrs)</b>	107 out of 207 Projects \$740M - \$1.1B	22 out of 54 Projects \$184M - \$276M	1 out of 1 Projects \$792K - \$1.2M	17 out of 38 Projects \$118M - 176M	26 out of 73 Projects \$1.3B - \$1.8B	4 out of 24 Projects \$15.9M - \$23.9M	177 out of 397 Projects \$2.4B - \$3.4B
<b>Mid-Term (11-20 yrs)</b>	107 out of 207 Projects \$740M - \$1.1B	34 out of 72 Projects \$198M - \$304M	1 out of 1 Projects \$792K - \$1.2M	3 out of 3 Projects \$2.4M - \$3.6M	25 out of 71 Projects \$2.1B - \$15.6B	6 out of 36 Projects \$40.7M - \$61.1M	176 out of 390 Projects \$3.1B - \$17.1B
<b>Long-Term (&gt;20 yrs)</b>	66 out of 130 Projects \$629M - \$964M	8 out of 24 Projects \$18M - \$27M	1 out of 1 Projects \$792K - \$1.2M	0 out of 0 Projects \$0	14 out of 21 Projects \$7.8B - \$48.9B	5 out of 20 Projects \$2.B - \$3.1B	94 out of 196 Projects \$10.5B - \$53B
<b>Total</b>	107 out of 207 Projects \$2.1B - \$3.3B	45 out of 97 Projects \$400M- \$607M	1 out of 1 Projects \$792K - \$1.2M	17 out of 38 Projects \$120M - \$180M	40 out of 91 Projects \$11.3B - \$66.3B	7 out of 37 Projects \$2.1B - \$3.2B	217 out of 471 Projects \$16B - \$73.6B

Notes: Estimated costs in 2015 dollars.  
 Some highway and transit projects are counted in multiple timeframes, thus total project counts for those types will not match totals row.  
 Estimates underrepresent operations and maintenance costs due to limited project data availability. Costs also may be underestimated where cost estimate ranges are still under development.  
 Projects or programs that cross subregional boundaries may be included in multiple subregional project lists. Where the same projects or programs are included in multiple subregions, the cost estimates include the total estimated project cost, not the cost share for each subregion. Any subregional cost-sharing agreements will be determined through future planning efforts.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

## **Westside Cities**

### **3. Performance Evaluations**

**Table 4-2. Westside Cities Performance Evaluation – Summary by Sub-Program**

Program/ Sub-Program	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>Improve travel times</li> <li>Improve system connectivity</li> <li>Increase person throughput</li> <li>Increase travel by transit and active modes</li> <li>Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>Reduce incidents</li> <li>Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>Reduce greenhouse gases</li> <li>Reduce vehicle miles traveled</li> <li>Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>Increase economic output</li> <li>Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>Increase population served by facility</li> <li>Increase service to transit-dependent populations</li> <li>Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>Extend life of facility or equipment</li> </ul>
<b>Active Transportation</b>							
Bicycle Program (including bikeways, bike parking, bike share)	75	○	○	○	○	●	○
Citywide Bicycle Master Plan Program	7	●	●	●	○	●	○
Livable Boulevards and Streetscapes Program	51	○	●	●	○	●	○
Mobility Hubs Program	1	●	○	●	○	●	○
Education and Encouragement Program (including public awareness programs, public events, and information dissemination)	11	○	●	○	○	○	○
First-Last Mile Program	23	●	●	●	○	●	○
Pedestrian Program	26	○	○	○	○	●	○
Safe Routes to School Program	8	○	●	●	○	●	○
Sidewalk State of Good Repair Program	3	○	○	○	○	○	●

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program/ Sub-Program	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>Improve travel times</li> <li>Improve system connectivity</li> <li>Increase person throughput</li> <li>Increase travel by transit and active modes</li> <li>Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>Reduce incidents</li> <li>Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>Reduce greenhouse gases</li> <li>Reduce vehicle miles traveled</li> <li>Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>Increase economic output</li> <li>Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>Increase population served by facility</li> <li>Increase service to transit-dependent populations</li> <li>Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>Extend life of facility or equipment</li> </ul>
<b>Arterials</b>							
Capacity Enhancement Program (including localized intersection widening and phasing adjustments, and and localized corridor widening)	43	●	◐	○	◐	◐	○
Complete Streets Program	20	●	●	●	◐	●	◐
ITS Program (including CMP monitoring stations, real-time dynamic signage, and traffic signal timing)	25	●	◐	◐	◐	◐	○
State of Good Repair Program	4	◐	◐	○	◐	◐	●
Traffic Calming Program (including reduction of speeds through neighborhoods and reduction of cut-through traffic)	5	◐	●	◐	○	◐	○
<b>Goods Movement</b>							
Goods Movement Program	1	◐	◐	◐	●	○	○
<b>TDM</b>							
Technology Program (social media, app development, communications)	3	●	◐	●	◐	◐	○

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program/ Sub-Program	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>Improve travel times</li> <li>Improve system connectivity</li> <li>Increase person throughput</li> <li>Increase travel by transit and active modes</li> <li>Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>Reduce incidents</li> <li>Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>Reduce greenhouse gases</li> <li>Reduce vehicle miles traveled</li> <li>Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>Increase economic output</li> <li>Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>Increase population served by facility</li> <li>Increase service to transit-dependent populations</li> <li>Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>Extend life of facility or equipment</li> </ul>
Parking Program (including park and ride, performance-based parking, and parking policies on a corridor or district scale)	17	◐	○	◐	◐	◐	○
Shared Ride Program (subregional and district-level)	8	●	◐	●	◐	◐	○
TMAs/Parking Districts/Park Once/Neighborhood Traffic Management/Employee Incentives Program	7	●	◐	●	◐	◐	○
<b>Transit</b>							
Crenshaw BI Corridor Extension (beyond segment funded by Measure R) all the way to Hollywood	1	●	◐	●	◐	●	○
Airport Metro Connector - 96th St. Station	N/A	◐	○	◐	◐	◐	○
Sepulveda Pass Transit Corridor (mode TBD)	3	●	◐	●	◐	●	○
Westside Subway Extension (Metro Purple Line) -Segment 1 to La Cienega (funded) -Segment 2 to Century City (funded) -Segment 3 to Westwood (underfunded)	1	●	◐	●	●	●	○

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program/ Sub-Program	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>Improve travel times</li> <li>Improve system connectivity</li> <li>Increase person throughput</li> <li>Increase travel by transit and active modes</li> <li>Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>Reduce incidents</li> <li>Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>Reduce greenhouse gases</li> <li>Reduce vehicle miles traveled</li> <li>Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>Increase economic output</li> <li>Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>Increase population served by facility</li> <li>Increase service to transit-dependent populations</li> <li>Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>Extend life of facility or equipment</li> </ul>
Metro Purple Line Extension Westwood/VA to Downtown Santa Monica	1	●	◐	●	●	●	○
Metro Purple Line West Hollywood Extension	1	●	◐	●	●	●	○
Lincoln BI BRT/LRT	4	●	◐	●	●	●	○
BRT Program (corridors)	8	●	◐	●	◐	●	○
Bus/Shuttle Program	36	●	○	◐	◐	●	○
Bus/Rail Integration Program	8	●	◐	◐	◐	●	○
Transit Technology Program (including real-time travel information, signal timing coordination with transit, and transit technology systems)	7	●	◐	●	◐	●	○
Rail Program (including L RTP Strategic Recommended and Unfunded projects, and other rail projects)	2	●	◐	●	●	●	○
State of Good Repair Program	9	◐	◐	●	◐	◐	●

## SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES

Program/ Sub-Program	# Projects Included	Mobility	Safety	Sustainability	Economy	Accessibility	State of Good Repair
		<ul style="list-style-type: none"> <li>Improve travel times</li> <li>Improve system connectivity</li> <li>Increase person throughput</li> <li>Increase travel by transit and active modes</li> <li>Improve reliability</li> </ul>	<ul style="list-style-type: none"> <li>Reduce incidents</li> <li>Improve personal safety</li> </ul>	<ul style="list-style-type: none"> <li>Reduce greenhouse gases</li> <li>Reduce vehicle miles traveled</li> <li>Improve quality of life</li> </ul>	<ul style="list-style-type: none"> <li>Increase economic output</li> <li>Increase job creation and retention</li> </ul>	<ul style="list-style-type: none"> <li>Increase population served by facility</li> <li>Increase service to transit-dependent populations</li> <li>Improve first-last mile connections</li> </ul>	<ul style="list-style-type: none"> <li>Extend life of facility or equipment</li> </ul>
Bus Station/Stop Improvement Program (Safety improvements, lighting, benches, etc.)	7	🕒	●	🕒	🕒	●	🕒
<b>Caltrans</b>							
I-10 Robertson Interchange Program	1	●	🕒	🕒	🕒	🕒	🕒
I-10 Carpool Lanes (Lincoln BI - I-5)	1	●	🕒	🕒	🕒	○	○
ITS Program (including surveillance system upgrades, others)	6	●	●	🕒	🕒	🕒	○
Main Line Program (LRTP Strategic Unfunded and others)	11	●	🕒	🕒	🕒	🕒	○
Ramp Program	19	●	🕒	○	🕒	🕒	○

## SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES



## **Westside Cities**

### **4. Project Descriptions**

The following matrix documents the Preliminary Project List as developed for the Westside Cities subregion during the Mobility Matrix process.

Program	Subprogram	MM Project ID	Agency	Description
Active Transportation	Bicycle Program	257	County of Los Angeles	Centinela Av; Green Valley Cir to La Tijera Bl; Class II Bike Lanes
		258	County of Los Angeles	Fairfax Av; Stocker St to 57th St; Class II Bike Lanes
		260	County of Los Angeles	Marina Del Rey – Continuous Class I Bike Trail; N Marina Limit to S Marina Limit
		261	County of Los Angeles	Marvin Braude Bicycle Trail; Washington Bl to 0.1 mi s/o Yawl St; Class 1 Bike Path
		262	County of Los Angeles	Sepulveda Channel; Washington Bl to Ballona Creek; Class I Bike Path
		263	County of Los Angeles	Stocker St; Fairfax Av to Santa Rosa Av; Class II Bike Lanes
		339	City of Los Angeles	Ballona Creek Bike Path Mid-City Segment: Design and construction of a Class I Bike Path along Ballona Creek from Fairfax Av to Venice Bl, providing enhanced bike access to transit.
		516	City of Culver City	Ballona Creek Bike Path Extension: This project would study and create plans to extend the bike path further east along Ballona Creek between Syd Kronenthal Park and Fairfax
		524	City of Culver City	Overland Bike Facilities: This project will add bike facilities on Overland between Venice and Playa.
		544	City of Santa Monica	Michigan Av Bicycle Facility: Connect beach, civic center, high school, Santa Monica College, Expo Line Stations and Bergamot Center with a high-quality bikeway parallel to I-10. Provides an I-10 crossing at 20th St.
592	City of Culver City	Develop a bikeway along Culver Boulevard west of Elenda Street that could extend to Marina Del Rey; Develop a Class II bike lane east of Elenda Street to Downtown		
Active Transportation	Bicycle Program	593	City of Culver City	Develop a bikeway loop connecting Ballona Creek Path to downtown (Class II bicycle lane along Overland Avenue, Culver Boulevard, and Washington Boulevard through downtown connecting to Ballona Creek and Exposition right-of-way)

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description		
		621	City of Santa Monica	Construct the 7th St bike/pedestrian bridge over I-10 freeway		
		645	City of Santa Monica	Complete 2nd St bike lane		
		652	City of Santa Monica	Extend Broadway bike lane – 6th to Ocean		
		653	City of Santa Monica	Improve bike lanes on Arizona Av, 6th and 7th Sts		
		710	City of Santa Monica	Bikeshare at Bergamot Art Center		
		790	City of Los Angeles	Priority Bikeways: Mark bikeways in the West Adams-Baldwin Hills-Leimert Community Plan with appropriate signage		
		795	City of Los Angeles	Reclaimed Land for Bikeways: Coordinate with other agencies to designate and develop mountain bike trails in the Kenneth Hahn State Recreation Area that complement and connect to the Baldwin Hills Park Master Plan trail system		
		881	City of Los Angeles	Culver Bl - Proposed Bike Lane: Culver Bl from McConnell Av to Playa del Rey		
		912	City of Los Angeles	Centinela Creek - Proposed Multi-Use Path from Centinela Creek path from Ballona Creek to Centinela Av east of the I-405 Planned Multi-Use Path		
		926	City of Los Angeles	Lincoln Bl - Proposed Cycle Track: Lincoln Bl from Jefferson Bl to Fiji Way. This project would be a feature of the reconstruction of the Lincoln Bl Ballona Creek Bridge project proposed as an element of the Westside Mobility Plan.		
		927	City of Los Angeles	Beethoven St - McConnell Av - Proposed Multi-Use Path Connector		
		933	City of Los Angeles	McConnell Av - Proposed Enhanced Bike Friendly St		
		937	City of Los Angeles	Beethoven St - Proposed Enhanced Bike Friendly St		
		Active Transportation	Bicycle Program	940	City of Los Angeles	Washington Bl - Proposed Cycle Track: Washington Bl from Admiralty Way to Pacific Av
				947	City of Los Angeles	Venice Bl - Proposed Cycle Track: from Beach to Robertson
		948	City of Los Angeles	Venice Wy - Proposed Bike Lane		
		952	City of Los Angeles	McLaughlin Av - Proposed Enhanced Bike Friendly St		
		961	City of Los Angeles	Palms Bl - Proposed Enhanced Bike Friendly St		
		964	City of Los Angeles	Walgrove Av - Proposed Enhanced Bike Friendly St		

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		970	City of Los Angeles	Military Av - Proposed Enhanced Bike Friendly St
		971	City of Los Angeles	Gateway Bl - Proposed Bike Lane
		973	City of Los Angeles	Barrington Av - Proposed Enhanced Bike Friendly St
		985	City of Los Angeles	Veteran Av - Proposed Enhanced Bike Friendly St
		999	City of Los Angeles	La Grange Tunnel - Proposed Multi-Use Path grade separated at I-405
		1004	City of Los Angeles	Santa Monica Bl - Proposed Cycle Track: Santa Monica Bl in the "parkway" section east of Sepulveda Bl
		1013	City of Los Angeles	Ohio Av - Proposed Enhanced Bike Friendly St
		1030	City of Los Angeles	VA Campus - Proposed Bike Path/Multi-Use Path
		1034	City of Los Angeles	Montana Av - Proposed Enhanced Bike Friendly St
		1037	City of Los Angeles	Gayley Av - Proposed Enhanced Bike Friendly St
		1046	City of Los Angeles	Bikesharing: Provide public bicycle rental in "pods" located throughout the city.
		1058	City of Los Angeles	Gateway Bl to Ocean Park Bike Lane gap closure
		1288	County of Los Angeles	Make more bicycle parking available throughout Marina del Rey
		1296	County of Los Angeles	Provide a direct separated facility through the Marina that links to regional bike facilities
		Active Transportation	Bicycle Program	1306
1307	County of Los Angeles			Bali Wy – Bike lanes are planned on Bali Way west of Admiralty Wy
1308	County of Los Angeles			Via Marina/Via Dolce – A bike route is planned on a portion of Via Marina, continuing on Via Dolce, between the channel and Washington Boulevard.
1315	County of Los Angeles			Enhance bicycle facilities on the east side of the Marina
1317	County of Los Angeles			Implement bicycle crossing enhancements to improve the bike path's crossing of Mindanao Wy

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		1318	County of Los Angeles	Preserve right-of-way to facilitate slower bicycle travel along a future multi-use waterfront promenade, and a future dedicated bicycle side path adjacent to Admiralty Wy
		1319	County of Los Angeles	Implement Parcel 44 bicycle enhancements
		1320	County of Los Angeles	Implement enhancements for the bike crossing of Bali Wy, and the treatment of the bike path through the parking lot of Parcel UR.
		1321	County of Los Angeles	Implement enhancements for the bike crossing of Admiralty Way between Yvonne B. Burke Park and the library, as well as treatments for the library parking lot to minimize conflicts between bikes on the path and motorists using the parking lot.
		1322	County of Los Angeles	Implement Washington Boulevard Gateway Enhancements to improve the wayfinding and visibility of the gateway to the Marvin Braude Bike Path where it meets Washington Boulevard
		1323	County of Los Angeles	East-West Bicycle Connections (i.e. bike path adjacent Admiralty Way or shared bicycle and pedestrian promenade)
		1324	County of Los Angeles	Potential implementation of on-street bike lanes on Via Marina (options include buffered bike lane or wider sidewalk and bike lane); Restripe Via Marina to provide on-street bike lanes and two travel lanes in each direction as funding is available.
Active Transportation	Bicycle Program	1401	City of Santa Monica	Collaborate with Santa Monica College to identify a bicycle route in the 17th Street corridor through the college campus and promote cycling for college students.

Program	Subprogram	MM Project ID	Agency	Description
		1417	City of Santa Monica	Complete major gaps in the bikeway network, including: <i>ff</i> Connections to future rail stations and activity centers; <i>ff</i> A bikeway along the Expo Light Rail right-of-way; <i>ff</i> Connections between Stewart Park and Bergamot Station; <i>ff</i> “Key Connections” to all schools and major employment centers; <i>ff</i> A bicycle and pedestrian bridge across I-10 at 7th Street <i>ff</i> Connections from Ocean Avenue to the Beach Bike Path, focusing on opportunities at Montana Avenue, the California Incline, Arizona Avenue, Broadway and the Santa Monica Pier; <i>ff</i> Enhancements to Airport Avenue between Airport Park and 23rd Street; <i>ff</i> Improved connections with the City of Los Angeles, including Dewey Street between Marine Park and 23rd Street and improvements facilitating access to UCLA and Santa Monica Boulevard, east of I-405
		1480	City of Santa Monica	Real-time bike parking availability information
		1588	City of W. Hollywood	Install bicycle parking in underserved areas along transit corridors
		3350	City of Culver City	Implement Urban Forest Management Plan
		3357	City of Culver City	Proposed Class III bikeway on Hannum Av
		3358	City of Culver City	Proposed Class III bikeway on Bristol Pky
		3359	City of Culver City	Proposed Class III bikeway on Green Valley Cir
		3361	City of Culver City	Proposed Class III bikeway on Duquesne Av
		3369	City of Culver City	Sign Class II and III bikeways on Washington, Jefferson, and Sepulveda Boulevards, Overland and Duquesne Avenues, Washington Place, Playa Street and any future adopted routes.
		3489	City of W. Hollywood	Beverly Bl: Install dedicated bike lanes (eastbound and westbound)
		3536	COG	Implement Westside Cities COG Bike Share Program
		Active Transportation	Bicycle Program	3638
3562	City of Beverly Hills			Bicycle Planning: Install bicycle parking city-wide.
3563	City of Beverly Hills			Implement revised Beverly Hills Bicycle Master Plan

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description	
		3595	County of Los Angeles	Establish a County-wide bike share program that interacts with the Metro transit system.	
		3615	City of Santa Monica	Implement additional bicycle facilities on a Bicycle Enhanced Network for the City of Santa Monica, including facilities along San Vicente Blvd, Washington Ave, Broadway, Michigan Ave, Ocean Park Blvd, Ashland Ave, Ocean Ave, Main St, 6th St, 17th St, Stewart St, and 28th St.	
	Citywide Bicycle Master Plan Program	2042	City of Los Angeles	Implement the projects identified in the 2010 Bicycle Plan for the City of Los Angeles (See Appendix for detail)	
		3162	City of Los Angeles	Implement City of LA Bicycle Enhanced Network as defined in the Mobility Plan 2035	
		3526	City of Santa Monica	Implement Santa Monica Bicycle Plan	
		3527	City of Culver City	Implement Culver City Bicycle Plan	
		3528	City of W. Hollywood	Implement West Hollywood Bicycle Plan	
		3551	City of Los Angeles	Implement the programs identified in the City of Los Angeles Mobility Plan 2035	
		3552	City of Los Angeles	Implement the programs identified in the 2010 Bicycle Plan for the City of Los Angeles (See Appendix for detail)	
	Livable Boulevards and Streetscapes Program	609	City of Santa Monica	Close bike and pedestrian gaps – Pier to Beach, Broadway to Ocean and Expo	
		610	City of Santa Monica	Bike and pedestrian bridge improvements and connections across I-10 at 4th St, PCH, 11th St, 14th St, 17th St, 20th St, and Cloverfield.	
	Active Transportation	Livable Boulevards and Streetscapes Program	624	City of Santa Monica	Construct new streetscapes and sidewalks for the streets that define the edges of Downtown to become obvious and efficient points of entry, so as to encourage every person to become a pedestrian as soon after crossing into Downtown as possible.
			628	City of Santa Monica	Lincoln Bl: Implement streetscape plan to address pedestrian and bus facilities, 1-10 intersection, roadway.
634			City of Santa Monica	Implement Ocean Av Streetscape Plan from Wilshire to Pico Bl, including consideration to widen sidewalk from Broadway to Ocean Av to accommodate pedestrian surges at Ocean and Colorado Avs	

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		635	City of Santa Monica	Widen Wilshire Bl sidewalk from Ocean Av to 4th St.
		638	City of Santa Monica	Expo Downtown Santa Monica Station access: widen 4th St bridge for bike and pedestrian facilities
		649	City of Santa Monica	Complete Colorado Esplanade Streetscape Project
		654	City of Santa Monica	Improve pedestrian and bicycle access for Pier
		701	City of Santa Monica	Design and construct Stanford streetscape
		705	City of Santa Monica	Centinela Streetscape - Expo bike/ped crossing
		706	City of Santa Monica	Stewart Streetscape - Expo bike/ped crossing
		707	City of Santa Monica	26th Streetscape - Expo bike/ped crossing
		708	City of Santa Monica	Cloverfield Streetscape - Expo bike/ped crossing
		709	City of Santa Monica	Olympic Streetscape - Stewart to 26th South Side - Expo
		714	City of Santa Monica	Nebraska Streetscape - from Centinela to Stewart: design and construct Flex St (1,350') and Shared St (350') types
		716	City of Santa Monica	Design and construct Stewart Streetscape (Including bike lanes from Colorado to Exposition)
		717	City of Santa Monica	Design and construct 26th Streetscape (Including bike lanes from Colorado to Olympic)
Active Transportation	Livable Boulevards and Streetscapes Program	719	City of Santa Monica	Design and construct Exposition Streetscape (Including sharrows from Centinela to Stewart)
		722	City of Santa Monica	Design and construct Berkeley streetscape
		762	City of Los Angeles	Implement Mayor's "Great Streets Program": Revitalize up to 40 neighborhood streets to become more pedestrian-friendly
		792	City of Los Angeles	Priority Pedestrian Routes: Implement streetscape plans for Crenshaw Bl (between Santa Monica Freeway and Florence Av. as well as within the district boundaries of the following CPIO areas: Crenshaw/Expo TOD, La Brea/Farmdale TOD, Jefferson/La Cienega TOD, Venice/National TOD, Crenshaw/Slauson TOD, West Bl TOD, and Hyde Park Industrial Corridor

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**



Program	Subprogram	MM Project ID	Agency	Description
		808	City of Los Angeles	Streetscapes: Implement streetscape plans for the Neighborhood Districts along Robertson and Washington Bl, as well as Leimert Park Village and the Crenshaw/Slauson Area as identified, as well as the Transit Oriented Development Areas along the Mid-City Exposition and Crenshaw/LAX transit Corridors
		859	City of Los Angeles	Abbot Kinney Livable Bl from Main St to Venice Bl
		860	City of Los Angeles	Centinela Livable Bl from SR 90 to Washington Bl
		861	City of Los Angeles	National Bl Streetscape Enhancements from Castle Heights Av to Motor Av
		862	City of Los Angeles	Palms Bl Streetscape Enhancements from Motor Av to National Bl
		863	City of Los Angeles	Motor Av Streetscape Enhancements from Palms Bl to Rose Av
		865	City of Los Angeles	Sepulveda Bl Streetscape Enhancements from Olympic Bl to National Bl
		866	City of Los Angeles	Pico Bl Streetscape Enhancements from Centinela Av to Barrington Av/405 Fwy & Sawtelle Bl/405 Fwy to Patricia Av
Active Transportation	Livable Boulevards and Streetscapes Program	867	City of Los Angeles	Pico Bl Green St Project: transform a 1/2-mile section of Pico Bl between Barrington Av and Sawtelle Bl in West Los Angeles into a green street. This will be accomplished through the planting of green solutions for storm water management and aesthetic improvements
		868	City of Los Angeles	Bundy Dr Streetscape Enhancements from Missouri Av to Pico B
		869	City of Los Angeles	Olympic Bl Streetscape Enhancements from Centinela to Barrington
		870	City of Los Angeles	Sawtelle Livable Bl from Olympic Bl to Santa Monica Bl
		871	City of Los Angeles	San Vicente Livable Bl from Bundy Dr to Bringham Av
		1292	County of Los Angeles	Signage/Wayfinding: Improve throughout Marina del Rey for vehicles, parking, pedestrians, cyclists
		1314	County of Los Angeles	Mole Roads Improvements: Recommend implementing paving treatments in combination with striping treatments to differentiate the pedestrian space from the shared vehicle/bicycle space.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		1334	City of Santa Monica	Implement Complete Streets throughout the Memorial Park district.
		1335	City of Santa Monica	Expo to SMC and Hospital Access: Develop a 17th Street Bikeway and Cycle Track: Develop 17th Street as a complete transit-oriented street with bicycle infrastructure integrated with the Expo bikeway and the Michigan Avenue Neighborhood Greenway (MANGO), transit stops for buses, comfortable and safe sidewalks, streetscape and lighting from Wilshire Boulevard to Pico Boulevard.
		1373	City of Santa Monica	Colorado Blvd (North Side) Sidewalk Extensions 15th Court to 17th Street
		1382	City of Santa Monica	Create a plan to enhance alleys citywide to create a Shared St environment. In the Downtown areas, evaluate the creation of “Arts Alleys” as described in Creative Capital, the City’s cultural master plan.
Active Transportation	Livable Boulevards and Streetscapes Program	3533	City of Los Angeles	Implement Complete Streets Enhancements along key arterials in the City of Los Angeles as defined in the Mobility Plan 2035
		3121	City of Los Angeles	This project will provide for sidewalk and landscaping improvements in the Westchester area of the City of Los Angeles on the west side of Sepulveda Bl between 80th St and 84th Pl.
		3171	City of Culver City	Streetscape improvements (street trees, landscaping, street furniture, special lighting, decorative paving, screening walls) and facade improvements along commercial corridors that complement each focus area and improve the physical environment.
		3490	City of W. Hollywood	Melrose Av: Install sharrows; widen sidewalks
		3491	City of W. Hollywood	Robertson Bl: Install sharrows; widen sidewalks
		3539	City of Culver City	Facilitate Pedestrian orientation of streetscapes along Commercial Corridors designated as Neighborhood-Serving.
		3540	City of Culver City	Enhance the aesthetic qualities of pedestrian access routes by increasing amenities, such as trees, awnings, lighting, street furniture, and drinking fountains, etc.
		3574	City of Beverly Hills	Implement Street Tree Master Plan

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		3581	City of W. Hollywood	Implement Design District Streetscape Master Plan
	Mobility Hubs Program	3529	City of Los Angeles	Implement Mobility Hubs: Install a full-service mobility hub at or adjacent to Metro Stations & satellite hubs strategically located surrounding each station, including secure bike parking, car share, bike share, and ride share (including casual carpooling) to bridge the first/last mile gap of a transit user's commute.
	Education and Encouragement Program	1410	City of Santa Monica	Provide classes on bicycle safety and awareness that targets different populations such as seniors, children and commuters.
		1412	City of Santa Monica	Participate and organize events to promote biking, such as National Car Free Day and Bike-to-Work Day with events throughout the City.
Active Transportation	Education and Encouragement Program	1413	City of Santa Monica	Work with the Convention and Visitors Bureau to provide bicycle rentals and information about cycling at hotels and popular tourist attractions and market Santa Monica as a cycling destination.
		1471	City of Santa Monica	Educational videos, Bicycle Campus Opening, Classes offered through City Bike Center, Additional City TV Episodes, Bike Training for adults and additional training for youth and targeted groups like Seniors.
		1472	City of Santa Monica	Develop Core Educational Programming, Ongoing Bicycle Training, Bicycle Repair Skills.
		1473	City of Santa Monica	Bike to Work Day, Bike It! Day, Bike to Park Day, Presence at special events (Glow, Marathon), Technical support for events with bike element (i.e. Tour da Arts)
		3223	City of Culver City	Develop an outreach program to educate those who live or work in Culver City about transit and encourage their use of it.
		3224	City of Culver City	Encourage public transit links to sites of high trip-generating uses to maximize transit use by patrons and employees.
		3538	City of Culver City	Promote public education programs regarding bicycle safety and the City's bicycle resources.
		3543	City of Culver City	Promote public education programs regarding the City's pedestrian resources and pedestrian safety, especially the use of pedestrian signals at street intersections.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
Active Transportation	First-Last Mile Program	3582	City of W. Hollywood	Implement public information and incentive program to encourage use of alternative transportation by local residents and employees.
		419	City of Los Angeles	Pico Bl Transit/Bicycle Enhancements: Installation of pedestrian & bicycle enhancements including street trees and wells, bicycle racks, information kiosks, wayfinding signs, new bikeway striping and bus stop lighting to promote multi-modal access to transit systems.
		507	City of Beverly Hills	Beverly Hills Park Wayfinding System
	First-Last Mile Program	542	City of Santa Monica	Exposition Light Rail Station Area Improvements: Create pedestrian, bicycle and bus linkages to downtown Expo Station street improvements
		590	City of W. Hollywood	Wayfinding program for peds and bikes: Directional signage with destination, direction and distance for key corridors
		632	City of Santa Monica	Reinforce 4th St station connections through sidewalk and streetscape improvements– Broadway to Olympic Drive.
		646	City of Santa Monica	Create opportunities to access Expo Station by bicycle, such as through 4th Court
		698	City of Los Angeles	Develop a System-wide Urban Greening Plan to improve placemaking, increase environmental stewardship, and create livable streets around transit stations with funds awarded by the State Strategic Growth Council.
		712	City of Santa Monica	Design and construct pedestrian improvements at Olympic near Expo: Two new pedestrian crossings and sidewalks along Olympic
		726	City of Santa Monica	Design and construct bike center at Bergamot Expo Station
728	City of Santa Monica	Connections to Bergamot Expo Station entrances across Olympic, and completion of Olympic north sidewalk		
767	City of Los Angeles	Access Management: Creation of adequate drop-off areas for schools, day care, health care, and other uses with intensive passenger drop-off demand		
1045	City of Los Angeles	Bicycle Transit Centers: Bike transit centers that offer bicycle parking, bike rentals, bike repair shops, lockers, showers and transit information and amenities		

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
Active Transportation	First-Last Mile Program	1278	County of Los Angeles	Park Once Facilities – Mobility Hubs located in or adjacent to a centralized parking facility that can serve the adjacent uses. Potential locations: the Marina Beach Area (District 1), the “Restaurant Row” area along Admiralty Way on the north side of the Marina (District 2), the Chace Park / Waterside Shopping Center area (District 3), and the Fisherman’s Village area (District 4).
		1279	County of Los Angeles	Include co-locating transit stops (both ground and water) at Mobility Hubs with clear wayfinding and good schedule coordination to ensure easy transfers between transit modes. If financially feasible, improving service frequency is recommended so the beach shuttle can better serve public parking lots in the Marina.
		1330	City of Santa Monica	Develop linkages and open space infrastructure that connect the Memorial Park plan area and the 17th St/SMC Expo station to neighborhoods to the east and west and north and south, including the Pico neighborhood, Santa Monica College, and the hospital districts.
		1394	City of Santa Monica	Develop and implement a beach access bikeway signage and wayfinding system.
		1398	City of Santa Monica	As funding becomes available, construct and ensure operation of bicycle-transit centers, which provide amenities such as secure bike parking, bike repair, and transit information.
		1457	City of Santa Monica	Implement Safe Access to Transit Program to provide safer bicycle and pedestrian access to transit stops.
		1938	City of Los Angeles	Expo/Bundy Station Multi-Modal Connectivity Enhancements: Bike lanes, bulb outs, enhanced crosswalks, new trees, new concrete sidewalks and roundabouts
Active Transportation	First-Last Mile Program	3530	City of Los Angeles	Implement pedestrian and bike connectivity improvements at every existing and planned Metro rail and subway station by providing enhanced sidewalk amenities such as landscaping, shading, lighting, directional signage, shelters, curb-extensions, mid-block crosswalks, ADA ramps, lead-pedestrian interval signal phases, etc.
		3553	City of Los Angeles	Implement the Metro First/Last Mile Strategic Plan

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		3567	City of Beverly Hills	Implement a First/Last Mile Plan (eg, La Cienega Bl, Beverly Dr)
		3568	City of Beverly Hills	Implement pedestrian and bicycle connectivity improvements at Metro subway stations.
		3569	City of Beverly Hills	Wayfinding program for peds and bikes
		3621	City of Los Angeles	Implement the City of Los Angeles First & Last Mile Transit Plan
	Pedestrian Program	264	County of Los Angeles	Marvin Braude Pedestrian Walkway Gap Closure; Palisades Park to California Av; Construct Pedestrian Walkway Paralleling Marvin Braude Bike Trail
		266	City of Beverly Hills	Ped improvements to address safety and walkability in Beverly Hills (SE area of City, inc Robertson and Olympic Bls are high priority)
		267	County of Los Angeles	Pedestrian Improvements; Construct New Sidewalks
		513	City of Beverly Hills	Construct controlled midblock crossings on Wilshire Bl/Palm Dr
		594	City of Santa Monica	Pedestrian Scramble Network, including intersections on 2nd & 4th Sts between Wilshire Bl and Colorado Av and the intersections of Ocean Av/Colorado Av and 3rd St/Wilshire Bl
		633	City of Santa Monica	Install pedestrian scaled lighting in phases throughout Downtown
		636	City of Santa Monica	Widen Ocean Av sidewalk– Colorado Av to Broadway
		766	City of Los Angeles	Pedestrian Access: Implementation of several Community Plan Implementation Overlay sub-districts that contain enhanced pedestrian standards as well as include preliminary streetscape plans that call for enhancement of public realm for pedestrians as well as other non-vehicular modes of transportation

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
Active Transportation	Pedestrian Program	1040	City of Los Angeles	Enhance Pedestrian Access to Major Transit Stations: Implement pedestrian connectivity improvements at major Metro transit stations by providing enhanced sidewalk amenities, such as landscaping, shading, lighting, directional signage, shelters, curb extensions, enhanced crosswalks, as feasible. <ul style="list-style-type: none"> <li>- Green Line Extension &amp; Crenshaw Station</li> <li>- Sepulveda Bl - BRT/LRT Stations in Coastal Area</li> <li>- Lincoln Bl - BRT/LRT Stations in Coastal Area</li> <li>- Expo Phase II Stations</li> <li>- Westside Subway Extension Stations</li> <li>- Sepulveda Bl - BRT/LRT Stations in West LA Area</li> <li>- Lincoln Bl - BRT/LRT Stations in West LA Area</li> </ul>
		1281	County of Los Angeles	Implement additional signalized pedestrian crossings, as well as wider sidewalks, and design treatments on shared-mode roads to improve the pedestrian experience in Marina del Rey. On the southern end of Via Marina and on Admiralty Way, it is recommended to implement mid-block crossings with pedestrian-actuated rectangular rapid flashing beacons (RRFBs) and high-visibility crosswalk striping
		1285	County of Los Angeles	Provide for a multi-use waterfront promenade that can serve the Marina. Widen to the County's design standard and run uninterrupted around the Marina, including around Marina Beach, to improve connectivity and the pedestrian experience.
		1287	County of Los Angeles	Resolve locations where pedestrians and bicycles conflict (e.g., on promenade and other pathways)
		1312	County of Los Angeles	Enhancements to existing intersection crossings include reducing crossing distances by constructing curb extensions, narrowing travel and turn lanes to a maximum of 12 ft to facilitate curb extensions and/or sidewalk widening, removal of line-of-sight obstructions in sidewalks, especially at the approach to intersections, and installation of high-visibility crosswalks on all legs of signalized intersections.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
Active Transportation	Pedestrian Program	1339	City of Santa Monica	To facilitate connectivity between the industrial conservation area to the south of Colorado Avenue and communities to the north, the City will continue to work with Metro to facilitate the construction of safe south to north pedestrian crosswalks along the light rail right-of-way at the following intersections: - 10th Street and Colorado Avenue - 12th Street and Colorado Avenue - Euclid Street and Colorado Avenue
		1379	City of Santa Monica	Develop a destination-oriented pedestrian wayfinding signage program.
		1578	City of W. Hollywood	Continue to implement a street furniture program to manage various pedestrian amenities
		1581	City of W. Hollywood	Enhance pedestrian crossings of arterials and other barriers, as identified in the Enhanced Crossings Priority List and citywide crosswalk study.
		3231	City of Culver City	Continue efforts to eliminate barriers to wheelchairs in the public and private pedestrian rights-of-way.
		3541	City of Culver City	Ensure actual and perceived safety of pedestrian areas through crime prevention measures.
		3542	City of Culver City	Establish pedestrian access across existing barriers such as freeways, Ballona Creek, and long, uninterrupted blocks, and require pedestrian links across potential future access barriers
		3544	City of Los Angeles	Implement City of LA Pedestrian Enhanced Districts as defined in Mobility Plan 2035.
		3571	City of Beverly Hills	Construct controlled midblock crossing on Bedford Drive.
		3617	City of Santa Monica	Pedestrian improvements along Wilshire Blvd and Santa Monica Bl
		3620	City of Santa Monica	Implement Santa Monica Pedestrian Action Plan
		Safe Routes to School Program	1385	City of Santa Monica

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**



Program	Subprogram	MM Project ID	Agency	Description
Active Transportation	Safe Routes to School Program	1386	City of Santa Monica	Develop Safe Routes to School programs such as “walking school buses,” walking audits, classroom instruction and promotional events.
		1387	City of Santa Monica	Create a program for educating parents about the benefits of their children walking to school. Emphasize the existing high levels of safety in Santa Monica.
		1411	City of Santa Monica	Organize Safe Routes to School programs with the goal of making them self-supporting.
		1462	City of Santa Monica	Work with School District to identify and improve good bicycle routes to each school and to provide information about these routes to school communities and neighbors of schools.
		1482	City of Santa Monica	Safe Routes to School (Samohi, Middle School bicycle training, Middle and Elementary encouragement), Mobile School Bike Training, Bike Friendly Business Recognition, Support Buy Local, Encourage Bike Local bike to business discounts, Car-Free Tourism support, TMA Formation Planning, Bike Pooling, Partner with SMC on programming
		1582	City of W. Hollywood	Pursue public and private grant funding sources for Safe Routes to Schools programs and street improvements
		3535	City of Los Angeles	Implement Los Angeles Safe Routes to School Initiative to provide targeted safety improvements at schools with high collision rates. Improvements may include new traffic signals, curb extensions, wider sidewalks, new crosswalks, traffic calming measures, etc.
		3572	City of Beverly Hills	Participate and implement recommendations of the SRTS program.
		3635	City of Culver City	Develop Safe Routes to School plans. Implement construction projects around various school sites in Culver City
		145	County of Los Angeles	Sidewalk, Curb, Parkway Preservation; Repair and Reconstruction
Active Transportation	Sidewalk State of Good Repair Program	3573	City of Beverly Hills	Repair and construct sidewalk, curb, parkways, transit amenities on major corridors.
		3634	City of Culver City	Repair and construct sidewalk, curb, parkways, transit amenities on major corridors.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
Arterial	Capacity Enhancement Program	123	City of Culver City	Sepulveda Bl - Flyover from NB Sepulveda Bl to WB Centinela Av
		129	City of Culver City	Centinela Bl- Sepulveda Bl to La Cienega Bl – Improve by adding travel lane in peak direction
		134	City of Beverly Hills	Wilshire Bl- Regional street corridor capacity enhancements at appropriate intersections such as Wilshire/Santa Monica
		173	City of Culver City	Highway Local; Road/intersection improvements and median configuration in Culver City
		181	Multi Jurisdiction	HOV/transit bypass lanes at intersections/ramps
		446	City of Los Angeles	Widen and restripe 111th St from Aviation Bl to La Cienega Bl to accommodate two through lanes in each direction
		449	City of Los Angeles	Aviation Bl from Arbor Vitae St to Imperial Hwy: Widen and restripe to accommodate three through lanes in each direction
		450	City of Los Angeles	Bundy Dr Widening - Wilshire Bl to Santa Monica Bl: Widen Bundy Drive to full secondary standards.
		451	City of Los Angeles	Culver Bl Corridor: Improve traffic flow along Culver Bl between Centinela Av and I-405 Freeway including providing left-turn lanes at key signalized intersections (including Inglewood Bl)
		455	City of Los Angeles	Imperial Hwy between Sepulveda Bl and Pershing Dr: Widen to provide continuous three through lanes in each direction
		456	City of Los Angeles	La Cienega Bl from Arbor Vitae St to 111 St: Widen and restripe to accommodate three through lanes in each direction
		457	City of Los Angeles	La Tijera Bl between Airport Bl and La Cienega Bl: Widen and restripe to provide continuous three through lanes in each direction
		463	City of Los Angeles	Sepulveda Bl Street Widening: Widen to major highway standard and increase number of through lanes from two to three lanes
Arterial	Capacity Enhancement Program	470	City of Los Angeles	Beverly Glen Bl Widening (Beverly Glen Bl and Mulholland Dr): Widen south leg of Beverly Glen Bl to create a right turn only lane; ROW acquisition needed
		475	City of Los Angeles	Laurel Canyon Bl & Mulholland Dr: Widen the west side of Laurel Canyon Bl south of Mulholland Dr to carry two southbound lanes through the intersection

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		506	City of Beverly Hills	Olympic/Beverly/Beverwil intersection improvements
		521	City of Culver City	Add a left-turn phase at Duquesne/Hughes and Washington Bl.
		525	City of Culver City	Overland/Washington Bl Intersection Improvements: Add dual left turns for eastbound and westbound traffic on Washington and add a right turn only lane for westbound to northbound traffic.
		530	City of Los Angeles	Improve Traffic Flow Along Centinela Av: Improve the Centinela Av corridor from Sepulveda Bl to La Cienega Bl (i.e. add a travel lane during peak periods) to relieve traffic congestion along Slauson Av.
		577	City of W. Hollywood	Add a SB exclusive right turn lane and add a protective/permissive phase at Fairfax and Fountain
		578	City of W. Hollywood	Provide SB exclusive right-turn lane at Fairfax & Santa Monica
		579	City of W. Hollywood	Provide a protected/permissive phasing for EB left-turn lane at Gardner & Santa Monica
		585	City of W. Hollywood	Provide protected/permissive phasing for NB and SB movements at the intersection of San Vicente and Beverly
		596	City of Santa Monica	Use curb lanes on Santa Monica Bl eastbound (5th St to Ocean) and Olympic Drive between (4th St to Ocean) for vehicle traffic
		603	City of Santa Monica	New streets and signals: Olympic Drive extension, Expo station site, potentially BBB property
		623	City of Santa Monica	Create a 9th street 1-way northbound connection between Olympic Bl and Colorado Av
Arterial	Capacity Enhancement Program	647	City of Santa Monica	Create new 5th St signalized intersection to facilitate temporary centralized bus facility on TOD site
		650	City of Santa Monica	Use curb lane for vehicle traffic on Olympic Drive between 4th and Ocean (additional east and westbound through-lanes)
		658	City of Santa Monica	Create new street through the transit oriented design site adjacent to Expo station
		659	City of Santa Monica	Build new street through the Big Blue Bus site connecting 5th to 6th Sts (bus and local only)

Program	Subprogram	MM Project ID	Agency	Description
		660	City of Santa Monica	Pursue additional connections across the freeway between 4th St and Main St including potential coordination with the Expo Station and Sears sites
		668	City of Santa Monica	Improve access to Downtown Santa Monica via Lincoln (Including new parking locations)
		715	City of Santa Monica	Design and construct Nebraska/Olympic/Stewart intersection
		718	City of Santa Monica	Design and construct Pennsylvania Streetscape - two-way conversion
		724	City of Santa Monica	Design and construct new "A" St from Olympic to Nebraska
		725	City of Santa Monica	Design and construct Nebraska Extension from Stewart to 26th
		727	City of Santa Monica	Construct Olympic Crossing at "H" St (New Roads) with bus stops
		729	City of Santa Monica	Design and construct new road "E" Av
		845	City of Los Angeles	Olympic Bl Traffic Operations Improvement at I-405: Implement traffic operational improvements such as managed lanes on Olympic Bl immediately adjacent to the I-405
		1049	City of Los Angeles	Major Intersection Improvements: Funding for spot intersection improvements, such as turn-lane or safety improvements
		3160	City of Los Angeles	Implement City of LA Vehicle Enhanced Network as defined in the Mobility Plan 2035.
Arterial	Capacity Enhancement Program	3565	City of Beverly Hills	Implement opportunities for improving traffic flow on major arterials during peak hour.
		3566	City of Beverly Hills	Improve traffic flow and capacity at City intersections to improve traffic flow along major roadways (eg. Wilshire Bl, North Santa Monica Bl.)
	Complete Streets Program	138	County of Los Angeles	Lincoln Blvd.; Jefferson Blvd to Fiji Way; Conduct a study for widening to increase capacity, allow for bike lanes, and potentially future light rail.
		425	City of Los Angeles	Sepulveda Bl Tunnel at Mulholland Dr Phase I: Project includes structural rehabilitation and widening of the tunnel to add an additional northbound lane, improve sidewalk and bike path to promote multi-modal access to transit systems.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		526	City of Culver City	Washington Bl Median Re-Configuration: The proposed project is the redesign and rehabilitation of Washington Bl between National Bl and Fairfax Av in order to improve the roadway pavement, provide left-turn pockets, and increase roadway width in order to accommodate bike facilities.
		697	City of Los Angeles	Develop a Sustainable Transportation Demonstration Program to support city partners in implementing innovative capital or operations improvements that apply guidance from the policy. Seek funding from SCAG, AQMD, State Strategic Growth Council, and federal/state grants.
		995	City of Los Angeles	Westwood Bl Bicycle & Transit Corridor
		1286	County of Los Angeles	Provide better access and connectivity to the various modes of travel to ensure ease of movement through the Marina on foot, bicycle, car, and boat.
Arterial	Complete Streets Program	1336	City of Santa Monica	Colorado Av Multimodal Enhancements - Develop Colorado Av as a complete street safe and comfortable for light-rail use, pedestrians, and vehicles, serving businesses and residents along it. Between 14th St and Lincoln Bl on the north side, add'l curbside parking may be provided in future if building entries are relocated from Colorado Av to north/south streets. If new development occurs on the north side of Colorado Av, sidewalks will be widened with sidewalks extensions into cross streets to reduce crossing distance, and existing parkways will be expanded to better infiltrate runoff from sidewalks and allow street trees to mature. If new development occurs on the south side of Colorado Av, sidewalks will be widened. Between 14th St and 11th St, existing parkways, street trees, irrigation and street lights will be relocated south to accommodate a two-way bicycle path along the curb. The new parkway will separate the bike path from the pedestrian walkway.

Program	Subprogram	MM Project ID	Agency	Description
		1337	City of Santa Monica	16th Street Shared Street – improve 16th Street to facilitate pedestrian use, comfort and east to west mid-block crossing, increased curbside parking for Memorial Park users, maintenance of vehicular access to and parking for adjoining properties and enhanced drop-off for the 17th Street/SMC Expo Station.
		1343	City of Santa Monica	Colorado Av Multimodal Improvements: Between 20th St and 17th St, sidewalks will be widened in conjunction with new development, including continuous landscaped parkways that infiltrate runoff from sidewalks and planted with street trees. Street lights to match those installed in conjunction with the Expo Line will be added to unify the district.
Arterial	Complete Streets Program	1344	City of Santa Monica	Colorado Avenue Multimodal Improvements: Adjacent to the Metro station and Memorial Park, between 15th Court and 17th Street, the sidewalk on the north side of the street may be extended into the street to provide space for pedestrian activity or, if the sidewalk is not widened, the curbside parking lane may be designated for loading only or short-term parking with enhanced paving in the curbside parking lane.
		1346	City of Santa Monica	14th Street First-Last Mile Improvements: To improve park access, mid-block roadway striping and signage will be altered to provide drop-off space along the curb. The southbound lane will be modified to include a 7' parking lane, 5' bike lane with 2' buffer from the adjacent travel lane. Northbound, the bike lane buffer will be moved to the east side of the lane to buffer cyclists from vehicles and park users in the adjacent drop-off lane; the drop-off lane will be 9' wide to facilitate loading and unloading of park users and equipment along the sidewalk. One 12' travel lane will remain in each direction. The east sidewalk will include a 12' paved area including a 6' pervious paving zone with connected tree wells and tree grates to facilitate auto access to Memorial Park. To the north of the drop-off zone, parallel parking and a Big Blue Bus transit stop would be provided.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
Arterial	Complete Streets Program	1347	City of Santa Monica	Olympic Bl Memorial Park Access Improvements: Additional drop-off space for park users is proposed on the park's south side between 14th - 16th Sts by converting the parking lane into a short-term parking and drop-off lane along the north side of Olympic Bl from 14th - 16th Sts. The existing sidewalk and tree lawn would be converted into an 8' expanded sidewalk along the southern border of Memorial Park, with pervious paving and connected tree wells with tree grates to provide more space for a 9' loading and unloading of park users and equipment. On the south side of Olympic Bl a break in the median to accommodate a left turn pocket for a new northbound left turn at 16th St will be provided.
		1348	City of Santa Monica	16th Street Memorial Park and Light Rail Access Improvements: Alter existing striping and signage to make 16th Street one-way northbound and provide angle parking on the west side and designated drop-off, transit zones and curbside parking on the east side. Corner bulb-outs and a raised mid-block "speed table" crosswalk would improve pedestrian conditions and help calm traffic on the street. A new median break at 16th Street and Olympic Boulevard would allow westbound traffic to enter 16th Street, removing turning movements from the more congested 17th Street and Olympic Boulevard intersection. When this improvement is undertaken, one Coral tree will be relocated to another location in the existing Olympic Boulevard median.
		1372	City of Santa Monica	Complete Streets enhancements along Colorado Ave (South Side) from 17th St to 20th St
		3353	City of Culver City	Improve aesthetic, safety and traffic conditions in the area between La Cienega Bl and Fairfax Av, La Cienega and Ballona Creek.
		3363	City of Culver City	Develop location and directional signage for areas of the City with skewed and discontinuous streets, such as the Jefferson-Sepulveda Bl intersections.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
Arterial	Complete Streets Program	3364	City of Culver City	Provide signs at major City gateways to indicate arrival into Culver City and to indicate the direction to heavily frequented destinations and points of interest, such as the Fox Hills Mall and the Civic Center.
		3564	City of Beverly Hills	Improve aesthetics and traffic conditions of major corridors (eg. La Cienega Bl)
		3614	City of W. Hollywood	La Cienega Corridor Enhancement: Develop consensus between Electeds of affected jurisdictions on desire to take a comprehensive look at opportunities to improve the La Cienega Corridor. Once consensus is developed, and with approved WSCOG funding plan, engage consultant and/or local school design students to develop recommendations to improve physical appearance, traffic movement, transportation, and pedestrian orientation along La Cienega Blvd
	ITS Program	144	City of Beverly Hills	Arterial street improvement, maintenance and streetscape improvements
		158	City of Los Angeles	Corridor-wide – I-10- Santa Monica Smart Corridor System Phase II: Implement direction-based traffic signal coordination on arterials connecting to I-10, arterial reconfiguration to facilitate directional flow such as reversible lanes, restripe various arterials for turn pockets and additional lanes, install CCTV and other communications systems
		159	City of W. Hollywood	ITS/Traveler Information Systems Operation and Maintenance in West Hollywood
		160	City of Santa Monica	Real time traffic and parking improvements
		163	City of W. Hollywood	Traffic Signal Timing in West Hollywood
		174	City of Culver City	Highway Local; Signal upgrade/improvements/modification in Culver City
		176	County of Los Angeles	Traffic Signal Improvements; Operational Upgrades
Arterial	ITS Program	233	City of W. Hollywood	Implement a Sub-Regional Traffic Management Center

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**



Program	Subprogram	MM Project ID	Agency	Description
		315	City of Culver City	Transit Intelligent Transportation Systems (new system/ maintenance/ upgrade)
		485	City of Los Angeles	CMP Monitoring Station #49 (Lincoln Bl and Marina Expressway (SR90)): Install a CCTV camera and necessary infrastructure (including fiber optic & interconnect) to improve DOT's ability to monitor and respond to real-time traffic conditions
		487	City of Los Angeles	CMP Monitoring Station #55 (Pacific Coast Highway and Chautauqua Bl): Install a CCTV camera and necessary infrastructure (including fiber optic & interconnect) to improve DOT's ability to monitor and respond to real-time traffic conditions
		488	City of Los Angeles	CMP Monitoring Station #57 (Pacific Coast Highway and Sunset Bl): Install a CCTV camera and necessary infrastructure (including fiber optic & interconnect) to improve DOT's ability to monitor and respond to real-time traffic conditions
		489	City of Los Angeles	CMP Monitoring Station #59 (Santa Monica Bl and Bundy Dr): Install a CCTV camera and necessary infrastructure (including fiber optic & interconnect) to improve DOT's ability to monitor and respond to real-time traffic conditions
		490	City of Los Angeles	CMP Monitoring Station #62 (Santa Monica Bl and Westwood Bl): Install a CCTV camera and necessary infrastructure (including fiber optic & interconnect) to improve DOT's ability to monitor and respond to real-time traffic conditions
		492	City of Los Angeles	CMP Monitoring Station #70 (Venice Bl and Centinela Av): Install a CCTV camera and necessary infrastructure (including fiber optic & interconnect) to improve DOT's ability to monitor and respond to real-time traffic conditions
Arterial	ITS Program	495	City of Los Angeles	Traffic Signal System Upgrades: Implement traffic signal system upgrades throughout subregion including signal controller upgrades, left-turn phasing at key intersections, sensor loops, additional CCTV cameras to improve LADOT's ability to monitor and respond

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		546	City of Santa Monica	Santa Monica Wayfinding: Create a comprehensive multimodal wayfinding system that includes real-time trip planning, parking reservations and dynamic signage.
		587	City of W. Hollywood	Improve timing at up to 50 traffic signals in West Hollywood.
		786	City of Los Angeles	Priorities for Capacity Enhancements: Provide information to motorists about alternative routes and modes of travel using changeable message signs, highway advisory radio, or other appropriate traffic management techniques.
		1048	City of Los Angeles	ITS Signal Upgrades: Install signal upgrades as part of the next evolution of ATSAC; Install right-turn detector loops for traffic volume data and monitoring; 211 signalized intersections in CTCSP Area
		1433	City of Santa Monica	Install and maintain real-time signage, especially at freeway exits and in the Downtown, to direct traffic to available parking and reduce congestion.
		1434	City of Santa Monica	Implement an Advanced Traffic Management System to improve signals.
		1435	City of Santa Monica	Develop a Traffic Management Center to optimize motor vehicle flow throughout the City.
		3215	City of Culver City	Relieve artery congestion due to freeway ramp metering through methods such as signage and diverters which direct traffic to alternative routes.
Arterial	ITS Program	3365	City of Culver City	Continue to support the Smart Corridor Demonstration Project along Washington Bl and Washington Place.
		3576	City of Beverly Hills	State-of-the-art traffic signal timing.
	State of Good Repair Program	3109	City of Los Angeles	Palisades Bluff stabilization project
		3208	City of Culver City	Maintain and annually update the Capital Improvement Program Action Plan to effectuate roadway improvements recommended in the Pavement Management Plan.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		3577	City of Beverly Hills	Maintain and annually update the CIP Action Plan to effectuate roadway improvements.
		3578	City of Beverly Hills	Develop traffic management techniques to identify, review and implement appropriate neighborhood traffic management.
	Traffic Calming Program	1051	City of Los Angeles	Neighborhood Protection Program: The objective of this Program shall be to discourage through-traffic from using local streets and to encourage, instead, use of the arterial street system. The Program shall establish measures to make the primary arterial routes more attractive and local routes less attractive for through-traffic, and establish measures designed to facilitate vehicular and pedestrian egress from local streets in the adjacent neighborhoods onto the primary arterial street and highways system.
		3246	City of Culver City	Further develop programs for identifying, reviewing, and developing appropriate neighborhood protection plans, including implementation of the Neighborhood Traffic Management Program.
		3534	City of Los Angeles	Implement roadway enhancements that enhance mobility and safety for all and strive toward the City of Los Angeles "Vision Zero" goal of zero traffic fatalities by 2025.
		3575	City of Beverly Hills	Maintain operations on roadways and intersections within multi-modal districts served by frequent transit, enhanced ped/bike systems.
Arterial	Traffic Calming Program	3611	City of Los Angeles	Identify and implement pedestrian safety and bicycle countermeasures at the 10 corridors with the highest severe injuries and collisions.
Caltrans	I-10 Robertson Interchange Program	3022	Caltrans	I-10 Fwy - Robertson/National Ramps: Final design, engineering and construction of on/ramp system improvements for the I-10 freeway and Robertson/National Bl ramps to improve access and circulation
	I-10 Carpool Lanes (Lincoln Bl - I-5)	101	Caltrans	I-10 Carpool Lanes: Lincoln Bl to I-5
	ITS Program	203	Caltrans	I-405- I-405 Add connector metering at I-105 and SR-90 interchanges

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		221	Caltrans	I-405- Throughout I-405 corridor – Expand operations of Fwy Service Patrol
		224	Caltrans	I-10- Install CCTV and other communications systems
		225	Caltrans	I-10- Upgrade Surveillance System
		3597	Caltrans	PCH: Install CCTV & Communications System from Temescal Canyon Road to Malibu Rd (Malibu Seafood) (Post Mile 38.11-49.72)
		3631	Caltrans	Implement SCAG congestion pricing pilot program
	Main Line Program	111	Caltrans	SR-90- Extension from Lincoln Bl to Admiralty Way
		112	Caltrans	I-10- Add WB auxiliary lane from Cloverfield to Centinela Av
		179	Caltrans	I-405- Add auxiliary lanes from SR-90 to I-105
		182	Caltrans	I-10- Add #5 lane to EB through LA Brea Av interchange
		185	Caltrans	I-10- Corridor-wide – Redesign on-ramp shoulders to accommodate Express Bus service
		212	Caltrans	Create a connection from the westbound SR-90 to SB I-405
		215	Caltrans	I-10- Add WB lane to I-10 from Harcourt Av to Overland Av
		217	Caltrans	I-405- Construct LAX Expressway parallel to I-405 Fwy between SR-90 and Arbor Vitae St
Caltrans	Main Line Program	288	Caltrans	I-10 - I-10 Busway
		3372	Caltrans	Work with Caltrans to continue soundwalls along I-405.
		3632	Caltrans	I-10 soundwalls
	Ramp Program	12	Caltrans	I-405 Direct HOV Connector to LAX
		122	Caltrans	Lincoln Bl- Flyover from NB Lincoln Bl to WB Washington Bl
		124	Caltrans	Slauson Av- Flyover from WB Slauson Av to WB SR-90
		184	Caltrans	I-10- Centinela Av ramps improvement
		187	Caltrans	I-10- Improve I-10 and I-405 interchange
		189	Caltrans	I-10- Lincoln Bl off-ramp and bridge improvements to provide vehicle, bike and pedestrian accommodations.
		196	Caltrans	I-10- Realign and widen WB off-ramp at Cloverfield Bl

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		198	Caltrans	I-10- Realign and widen WB off-ramp to National
		199	Caltrans	I-10- Widen EB Barrington on-ramp
		201	Caltrans	I-405- Add additional lane at National on-ramp
		205	Caltrans	I-405- Modify NB and SB collector/distributor from SR-90 off-ramp to SR-90 on-ramp
		206	Caltrans	I-405- NB on-ramp from Jefferson Bl – Widen and extend 2 meter lanes and 1 HOV metered lane and lengthen merging length
		213	Caltrans	I-10 interchange improvements of sub-regional importance including Cloverfield Boulevard, Lincoln Boulevard and 4th/5th Street ramps
		218	Caltrans	I-405- Construct new NB collector-distributor road at Jefferson Bl ramps
		227	Caltrans	I-405- SB off-ramp to WB Jefferson Bl – add acceleration lane to WB Jefferson Bl for free right-turn move
Caltrans	Ramp Program	228	Caltrans	Reconfigure EB SR-90 ramp from NB Sepulveda Bl to wrap under and around the SR-90 and raise up over Sepulveda Bl to create new ramp to NB I-405
		471	Caltrans	Bundy Drive / I-10 Ramp Improvement: Reduce congestion on Bundy by reconfiguring the I-10 WB ramps (consolidate to one ramp location accommodating both the on and off ramps with new signal)
		608	Caltrans	Olympic Crossover – replace existing I-10 westbound off -ramp at 4th St to consolidate freeway entrance and exit to one signalized intersection at Olympic Drive
Goods Movement	Goods Movement Program	779	City of Los Angeles	On-site Loading: Collaborate with business owners/operators in industrial districts to identify deficiencies in access, loading and parking on existing streets
TDM	Technology Program	3570	City of Beverly Hills	Improve citywide operations of existing and future signal controls, real-time parking availability, and real-time transit information.
		3591	City of Culver City	Region-wide (southern California) real-time transit arrival information web portal and smart phone app.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		3592	City of Culver City	Smart parking management technology at the rail station parking lots, including a smart phone app and web portal allowing people to see and reserve available parking spaces before arriving at the parking lot.
	Parking Program	330	City of Beverly Hills	Develop a Parking Master Plan and implementation funding tools including parking assessment districts & congestion pricing
		483	City of Los Angeles	Wilshire Park-and-Ride Facilities: Provide parking for transit users at or near existing and planned metro rail station along Wilshire Bl.
		496	City of Los Angeles	Westwood ExpressPark (Westwood Bl between Pico Bl and UCLA): Implement an on-street intelligent parking program that includes vehicle sensors, dynamic demand-based pricing and a real-time parking guidance system to reduce VMT, congestion and to improve flow for cars/buses.
TDM	Parking Program	580	City of W. Hollywood	West Hollywood parking shuttles: implement parking shuttles along Santa Monica Bl and Sunset Bl
		581	City of W. Hollywood	West Hollywood parking utilization improvements: TDM - develop an online system for real-time parking information including GIS database and mapping. Improve parking and wayfinding and guidance throughout commercial areas
		663	City of Santa Monica	Install parking meters on 5th, 6th and 7th Sts to ensure turnover and availability near businesses
		664	City of Santa Monica	Enable the phased development of up to 800 public parking spaces in peripheral locations to address future demand without incentivizing additional vehicle trips in Downtown
		667	City of Santa Monica	Direct drivers to public parking with the most availability, with first priority as soon as they enter the Downtown area, with Signage located at all entrances into the Downtown, including: Lincoln Bl freeway off ramp, 4th/5th St Freeway off ramp along Wilshire Bl as one enters the Downtown, along Pacific Coast Highway and/or at entrances from the Pacific Coast Highway

Program	Subprogram	MM Project ID	Agency	Description
		784	City of Los Angeles	Performance-Based Parking Supply: Where parking needs assessments indicate excess potential, implement a parking program similar to the Eagle Rock Community Pilot Project that encourages use of "pooled" parking resources to satisfy parking requirements for change of use projects.
		1053	City of Los Angeles	Strategic Parking Program: Implement a Westside parking program and update parking requirements to reflect mixed-use developments, shared parking opportunities, and parking needs at developments adjacent to major transit stations.
		1055	City of Los Angeles	Parking Utilization Improvements & Reduced Congestion: Develop an on-line system for real-time parking information, including GIS database and mapping. Improve parking and wayfinding and guidance throughout commercial areas.
TDM	Parking Program	1290	County of Los Angeles	Locate year-round dinghy docks near restaurants to promote travel within the Marina by boat
		1303	County of Los Angeles	Provide convenient parking for boaters/trailers, focusing on short-term parking needs for loading/unloading supplies
		1350	City of Santa Monica	Establish a 17th Street/SMC Expo gateway and Memorial Park Station Plaza: The 17th Street/SMC light rail station includes a planned Park & Ride lot on the south side of Colorado Avenue between 15th Court and 17th Street. A plaza area is proposed that is intended to serve several functions such as a major crossroads of pedestrian and bicycle activity, as well as facilitates the mobility experience for community members and transit patrons, while creating a sense of identity and place for the Memorial Park neighborhood.
		1567	City of W. Hollywood	Develop requirements for alt-fuel vehicle-dedicated parking spaces
		3236	City of Culver City	Reduce pressure on on-street parking through provision of private and public off-street parking facilities.
		3554	City of Los Angeles	Implement Park Once / Universal Valet Parking Programs throughout major retail centers in the City, as appropriate, including the use of City owned parking facilities

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		3557	City of Los Angeles	Expand the park & ride network in Los Angeles County to meet the current and latent demand of discretionary transit riders to use regional public transportation services.
	Shared Ride Program	508	City of Beverly Hills	Beverly Hills Rideshare Program
		772	City of Los Angeles	Alternatives to Automobile: Coordinate with other agencies that conduct demonstration programs for Local Use Vehicles and identify areas where these vehicles can be used to reduce greenhouse gas emissions, air pollution and gasoline consumption.
TDM	Shared Ride Program	1054	City of Los Angeles	Rideshare Toolkit: The Toolkit would develop an online Transportation Demand Management (TDM) Toolkit with information for transit users, cyclists, and pedestrians as well as ridesharing. It would include incentive programs for employers, schools, and residents. Additionally, it would be specific to City businesses, employees, and visitors and would integrate traveler information. It would also include carpooling/vanpooling and alternative work schedules.
		1429	City of Santa Monica	Work with larger employers to expand and enhance shared ride access, such as through regional vanpool programs to supplement existing transit service.
		1454	City of Santa Monica	Evaluate the possible implementation of a Carsharing Program.
		1596	City of W. Hollywood	Develop relationships with car share companies to expand carsharing to West Hollywood
		1598	City of W. Hollywood	Identify locations for community ride share stations and develop appropriate infrastructure
		2998	County of Los Angeles	LA County rideshare services; provide commute info, employer assistance and incentive programs through core & employer rideshare services & MTA incentive programs
		TMA Program	614	City of Santa Monica

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**



Program	Subprogram	MM Project ID	Agency	Description
		1056	City of Los Angeles	Transportation Demand Management (TDM) Program: The program would provide start-up costs for Transportation Management Organizations/Associations (TMOs/TMAs). It would also provide guidance and implementation of a TDM program.
TDM	TMA Program	1284	County of Los Angeles	Mobility enhancements for Boaters: Provide high-quality dedicated facilities (such as parking), avoid conflicts with other modes at boat launch areas and locations where privately-owned vehicles haul trailers, provide opportunities for using small watercraft for personal mobility within the Marina by providing dinghy docks, waterside wayfinding, and other improvements.
		1358	City of Santa Monica	Establish a TMA to implement, coordinate, and advance vehicle trip reduction/TDM and promote alternative transportation on a sub-regional level, including potential shared parking.
		1366	City of Santa Monica	Memorial Park District Parking Facility. A multi-level subterranean parking facility will be constructed in Memorial Park.
		1450	City of Santa Monica	Facilitate the formation of Transportation Management Organizations (TMOs), Business Improvement Districts, or other organizations to help manage vehicle trips at a local level.
		3201	City of Culver City	Reduce automobile travel by establishing a context for TDM programs, capitalizing on the CityBus transit system and the Ballona Creek Bike Path, and studying appropriate limits on the number of parking spaces for specific uses and areas.
		3579	City of Beverly Hills	Develop TDM to reduce single-occupant motor vehicle travel in the City by improving efficiency of existing transportation networks.
		3616	City of Santa Monica	Implement TDM programs as part of the neighborhood plans for Downtown, Memorial Park, and Bergamot Station.
Transit	Crenshaw Line extension to Hollywood	22	Multi Jurisdiction	Crenshaw Bl Corridor Extension (beyond segment funded by Measure R) all the way to Hollywood
	Sepulveda Pass Transit Corridor	282	City of Los Angeles	I-405/Sepulveda Pass - Alternative multimodal linkage from the Westside to the San Fernando Valley and LAX, taking pressure off of the I-405

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description	
		850	Multi Jurisdiction	Sepulveda BRT: Center running BRT on Sepulveda Bl from Wilshire to LAX.	
Transit	Sepulveda Pass Transit Corridor	3547	Multi Jurisdiction	Sepulveda LRT: Potential future upgrade to rail transit in the long term from BRT from Wilshire to LAX.	
	Purple Line extension Century City to Westwood/VA	3633	Multi Jurisdiction	Metro Purple Line Extension to Westwood/VA	
	Purple Line extension to Downtown Santa Monica	119	Multi Jurisdiction	Metro Purple Line Extension Westwood/VA to City of Santa Monica	
	Purple Line West Hollywood Extension	23	Multi Jurisdiction	Metro Purple Line Extension West Hollywood Extension	
	Lincoln Bl BRT/LRT		458	City of Los Angeles	Partnering with Caltrans and LA County, improve Lincoln Bl between Jefferson Bl and Fiji Way, incl. removing existing bottleneck by replacing existing bridge to provide a wider bridge with an additional SB lane, transit lanes, and on-street bike lanes.
			3548	Multi Jurisdiction	Lincoln Bl BRT: Center running BRT on Lincoln Bl from Santa Monica Blvd to LAX.
			3549	Multi Jurisdiction	Lincoln Bl LRT: Potential future upgrade to rail transit in the long term from BRT from Santa Monica to LAX.
			3619	City of Santa Monica	Implement additional transit facilities along Lincoln Blvd for a Transit Enhanced Network.
	BRT Program		292	Multi Jurisdiction	Implement Rapid Bus Transit Improvements along major arterials (Lincoln Bl, Sepulveda Bl and Pico Bl).
			307	City of W. Hollywood	Implement exclusive Transit/HOV lanes on key arterials and high-ridership transit corridors
			655	City of Santa Monica	Find ways to prioritize rapid buses (queue jumpers, stop relocation, curb extension)
			847	City of Los Angeles	Olympic Rapid Improvements: Extension of the Metro Rapid 728 from current terminus in Century City to the Metro Expo Line station at Westwood Bl

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
Transit	BRT Program	848	City of Los Angeles	Pico Rapid Improvements: General Rapid enhancements (i.e. increased frequency, stop improvements, and construction) on Big Blue Bus Rapid 7, construction of a new stop in Century City.
		849	Multi Jurisdiction	Santa Monica Bus Rapid Transit: Curb-running bus-only lanes on Santa Monica Bl from the border of the City of Santa Monica to the border of the City of Beverly Hills
		853	City of Los Angeles	Venice Rapid Upgrades: Rapid enhancements & Venice Beach branding of existing Rapid Line. Rebrand existing Metro Rapid 733 service to serve Venice Beach area, increased service frequency, implement stop improvements.
		3161	City of Los Angeles	Implement City of LA Transit Enhanced Network as defined in the Mobility Plan 2035.
	Bus/Shuttle Program	294	Multi Jurisdiction	I-405- Express Bus Improvements (e.g., peak period shoulder lane) on I-405
		297	City of Los Angeles	Implement cross mountain bus service along Coldwater Canyon Dr, Beverly Glen Bl, Benedict Canyon Dr.
		299	City of Santa Monica	On Lincoln Bl – New express bus Big Blue Bus routes and/or facilities
		300	Multi Jurisdiction	Robertson Bl – Increase headways to Airport bus service between Beverly Hills, West Hollywood and LAX.
		301	City of Los Angeles	Sepulveda Pass – Increase express bus service over Sepulveda Pass, with collector/feeder service throughout West LA and the San Fernando Valley.
		306	City of Santa Monica	Increase bus capital and operating funding
		575	City of W. Hollywood	Expand local transit service (CityLine) to include up to 4 new buses
		648	City of Santa Monica	Relocate dedicated bus lanes and transfer nexus from Santa Monica Bl to facilitate increased bus capacity, and align with modified BBB operations, while maintaining service to the Downtown
		Transit	Bus/Shuttle Program	657
720	City of Santa Monica			Area-wide shuttle to meet demand

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		793	City of Los Angeles	Priority Transit Routes: Coordinate CityRide transit services and Los Angeles County ACCESS transit services with social service centers
		846	City of Los Angeles	Century City Local Circulator: Circulator service to serve Century City and the planned Century City Metro Purple Line Station.
		851	City of Los Angeles	Sawtelle Circulator: Circulator service on Sawtelle Bl from Wilshire Bl to the Metro Expo Line Sepulveda Station.
		852	City of Los Angeles	Bundy Circulator: Circulator service on Bundy Dr from Wilshire Bl to the Santa Monica Airport.
		855	City of Los Angeles	Marina-Playa-Fox Hills Circulator/Fox Hills to Venice Circulator: Circulator bus/shuttle would connect activity centers to major transit stations.
		856	City of Los Angeles	Loyola Circulator: Provide circulator service to connect to/from Loyola Marymount University and future BRT/rail stations on Lincoln Bl.
		857	City of Los Angeles	Palms Circulator: Circulator service to connect Palms neighborhood activity centers to Metro Expo Line Palms Station.
		1289	County of Los Angeles	Improve frequency and service duration of water transit
		1291	County of Los Angeles	Link parking lots to destinations with shuttles that run around the entire Marina
Transit	Bus/Shuttle Program	1310	County of Los Angeles	To provide increased Marina Beach Shuttle service that would support a Park Once Marina del Rey, it is recommended a service standard of 15-minute headways or better during peak days to be implemented in the long term as the park once system is implemented. Also it is recommended to run some of the Beach Shuttle routes in the Marina only, rather than routing all shuttles to Playa Vista and Playa del Rey, unless ridership demand in those areas is sufficient to warrant the 15-minute service frequency
		1311	County of Los Angeles	Implement a scheduled WaterBus service with defined routing and stop location co-located with Mobility Hubs.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		1340	City of Santa Monica	Cross Town Bus – maximize access to and from the 17th Street/SMC Expo Station with enhanced cross town bus routes that serve area employees including those at area hospitals, Santa Monica College, students and community members.
		1420	City of Santa Monica	BBB will regularly update the Service Improvement Plan, with an emphasis on service efficiency and improved regional connections.
		2992	City of Culver City	Culver City funding for articulated bus to expand the passenger capacity of the current Culver City Bus Line
		2993	City of Culver City	Culver City Bus Operation Assistance
		3220	City of Culver City	Expand Culver CityBus routes and service levels to address new potential markets and levels of demand.
		3221	City of Culver City	Support development of a CityShuttle service to link major activity and transit centers during peak demand periods.
		3230	City of Culver City	Expand City Dial-A-Ride services and enhance coordination with adjacent jurisdictions.
		3276	City of Culver City	Extend Culver CityBus routes to Playa Vista, South Bay, Downtown LA and Century City.
		3277	City of Culver City	Expand intracity CityBus Routes.
Transit	Bus/Shuttle Program	3315	City of Culver City	Purchase six (6) 40-foot CNG buses to replace four (4) 30-foot buses and add two (2) additional buses to the CNG fleet
		3316	City of Culver City	Implement the 2015 bus replacement project that will replace 20 40-foot buses reaching the end of their useful life in 2015/2016
		3522	City of W. Hollywood	PickUp Line Ridership Feasibility and Needs Assessment Study - Potential expansion of the weekend transportation service, the PickUp Line, for additional days, hours, or an extended route to the Eastside of the City
		3555	City of Los Angeles	Purchase new DASH shuttle buses and expand LADOT DASH operations to enhance intra-community "first mile/last mile" transit connections to regional transit centers.

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description	
		3560	Multi Jurisdiction	Improved year-round regional transit connection between Malibu and Santa Monica along PCH, including improved headways for existing bus service	
		3561	Multi Jurisdiction	Malibu: seasonal shuttle program to connect Malibu and Westside	
		3587	City of Culver City	Culver CityBus: replace SmartBus System at the end of its useful life cycle.	
		3588	City of Culver City	Culver City - Citywide Bus Stop Improvement Project. The improvements include some or all of the following: 1) Replace/add/lengthen bus pads, 2) Improve sidewalk conditions or extend the sidewalk, 3) Next bus arrival information system, 4) Enhanced lighting, and 5) Bus stop furniture	
		3589	City of Culver City	Culver CityBus: Implement Culver CityBus Line 1 Rapid service - operation funding and new buses.	
	Bus/Rail Integration Program	314	City of Culver City	Expo Line- Enhance transit technology for interface with Expo Line	
		528	City of Culver City	Culver CityBus: Implement Culver CityBus System-wide Service Change/Expansion to provide new service and enhance subregional connectivity to/from Expo Light Rail - Operations Funding	
	Transit	Bus/Rail Integration Program	536	City of Culver City	Culver CityBus: Sepulveda Bus Line Expansion Project - Purchase of 6 buses to enhance the capacity of Line 6/Rapid 6 on Sepulveda from UCLA to LAX and Green Line Aviation Station.
			1304	County of Los Angeles	Better integrate the Marina into the regional transit network through improved span of service and service frequency on transit lines
			3227	City of Culver City	Support MTA funding to enhance feeder service to rail stations.
3583			City of Culver City	Culver CityBus: procure electric buses and construct associated charging infrastructure for service expansion/exhancements to Expo Light Rail and future subway extension.	
3585			City of Culver City	Culver CityBus Maintenance Facility/Yard Expansion: Fund property acquisition and facility expansion to accommodate additional buses for service expansion to Exposition Light Rail stations and future subway extension.	

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
	Transit Technology Program	3586	City of Culver City	Improve Bus Stops in the Area (Culver City & City & County LA) for feeder service to Expo Light Rail: The improvements include some or all of the following: 1) Replace/add/lengthen bus pads, 2) Improve sidewalk conditions or extend the sidewalk, 3) Next bus arrival information system, 4) Enhanced lighting, and 5) Bus stop furniture
		1421	City of Santa Monica	Update transit technology systems to maximize use with communication technology.
		1423	City of Santa Monica	Expand the existing transit stop improvement program, including real-time bus arrival displays and schedule information.
		1576	City of W. Hollywood	Adjust signal timing to minimize transit delay along Santa Monica Bl and other transit corridors
		3310	City of Culver City	Implement the Smart Bus Upgrade Project
		3311	City of Culver City	Implement the Real-Time Bus Arrival Information System Project
		3312	City of Culver City	Implement the Citywide Bus Signal Priority Project
Transit	Transit Technology	3590	City of Culver City	Integrated real-time next bus/train arrival information signs at and around all rail stations.
	Rail Program	316	Multi Jurisdiction	Green Line Extension on Florence Av/ BNSF Railway - Build rail to connect Harbor and Crenshaw Corridors to LAX utilizing existing BNSF rail line
		3550	City of Los Angeles	Venice Long Range Streetcar: The enhancement to the Metro Rapid Line 733 on Venice Bl could be transitioned to streetcar to provide a fixed branded connection from the Metro Exposition Line station in Culver City to Venice Beach, with a loop on Abbot Kinney Bl.
	State of Good Repair Program	312	City of Culver City	Preventive maintenance/rehabilitation of transit (bus)
		320	City of W. Hollywood	Preventive Maintenance/Rehabilitation of Transit (Bus & Rail)
		321	City of Culver City	Bus maintenance and storage facility upgrade and expansion
		3556	City of Los Angeles	Program to fund the conversion of existing transit fleet in Los Angeles County to meet goal of 25% zero-emission or near zero-emission buses by 2025

**SUBREGIONAL MOBILITY MATRIX – WESTSIDE CITIES**

Program	Subprogram	MM Project ID	Agency	Description
		3558	City of Los Angeles	Program to purchase new transit operations / maintenance facilities, and upgrade existing facilities, with the capacity to accommodate new zero emission and near zero emission buses.
		3559	City of Los Angeles	Program to maintain a state of good repair for public transit programs including the replacement and refurbishment of transit vehicles, facilities, and other transit infrastructure.
		3584	City of Culver City	Culver CityBus: Procure buses to replace existing buses that will reach the end of their useful life cycle.
		3636	City of Culver City	Study materials and methods to address overweight bus issues
		3637	City of Culver City	Install enhanced pavement in lanes heavily used by transit buses to address overweight bus issues
		Bus Station/Stop Improvement Program	310	City of Culver City
Transit	Bus Station/Stop Improvement Program	538	City of Culver City	Westside Transit Center: Conduct a feasibility study, prepare environmental documents, design, and construct a multimodal transit center to replace the existing Westfield Culver City Transit Center (located on private property). This transit center will serve as a major transit hub on the Westside for riders transferring bus lines.
		639	City of Santa Monica	Create bus pullouts on 4th St near Expo station
		702	City of Santa Monica	Buffer Park at Expo yard
		723	City of Santa Monica	Design and construct Bergamot Art Center Station Plaza
		3278	City of Culver City	Site a new Culver CityBus yard to replace existing overcrowded facility.
		3309	City of Culver City	Implement the Bus Stop Improvements Project



### 3. Regional Facilities





ID	Project Description
<b>Palmdale Regional Airport</b>	
378	People mover from the Palmdale Transportation Center to the Palmdale Regional Airport
<b>Burbank Bob Hope Airport</b>	
A5	Clybourn Ave: Grade separation at railroad tracks / Vanowen St / Empire Ave
A25	Hollywood Way: Widen to 6 lanes from Thornton Ave to Glenoaks Blvd
B8	Hollywood Way/San Fernando Rd Metrolink station pedestrian bridge
B16	Burbank Airport: CNG Refueling Station
T12	Metro Orange Line Extension: North Hollywood to Bob Hope Airport
T20	Burbank/Glendale LRT: From LA Union Station to Burbank Airport via Antelope Valley Line corridor
T21	Pasadena to Burbank Airport LRT: Via SR-134 / I-5 through Glendale & Burbank
T22	Metro Red Line Extension: North Hollywood to Burbank Airport
<b>Long Beach Airport</b>	
3138	Bellflower Blvd/Spring St: Intersection improvement
3137	Lakewood Blvd/Spring St: Intersection improvement
3082	Wardlow Road/Cherry Ave: Intersection widening
9078	Lakewood Blvd/Rosemead Blvd (59 signals). From San Gabriel Blvd to Stearns St
9094	Willow St (23 signals). From I-710 to I-605
<b>Los Angeles International Airport</b>	
n/a	Automated People Mover (APM) System
n/a	APM Connection to the Regional Metro Rail System (96th St. / Aviation Blvd. Metro Station)
n/a	Intermodal Transportation Facility (ITF) at Airport Blvd. and Aviation Blvd.
n/a	Consolidated Rent-A-Car Center (CONRAC)
n/a	Arbor Vitae St. between Airport Blvd. and Aviation Blvd.
n/a	Arbor Vitae St. between Aviation Blvd. and La Cienega Blvd.
63	Century Blvd. between west of Avion Dr. and Aviation Blvd.
66	98th St. corridor extension and re-striping between Bellanca Ave. to La Cienega Blvd.
73	Extension and Re-Alignment of Jenny Blvd. between Westchester Pkwy. and Century Blvd.
68	La Cienega Blvd. corridor between Arbor Vitae St. and north of Century Blvd.
69	Aviation Blvd. corridor between Arbor Vitae St. and Century Blvd.
70	Airport Blvd. between Manchester Ave. and Century Blvd.
71	Roadway connection between 111th St. and Imperial Hwy and improvement to 111th St.
72	Roadway connection from SB Sepulveda Blvd. and SB Lincoln Blvd.
73	Roadway connection from NB Sepulveda Blvd.
75	Connection from Manchester Square to I-405 SB and I-105 EB ramp
76	Provide an on-ramp to I-405 NB from NB La Cienega Blvd.
<b>Port of Los Angeles</b>	
NEW	Sampson Way to 22nd Street & Miner Street
1019	I-110: Vincent Thomas Bridge 110 Connector

ID	Project Description
1030	SR 47: V. Thomas Bridge/Front St Interchange
NEW	SR 47/Navy Way Interchange
NEW	New Cerritos Channel Rail Bridge
NEW	Pier 400 Second Lead Track
NEW	Misc Port of Los Angeles Improvements: Loading tracks, rail expansions, rail yards, additional storage, container movement enhancement, and wharf improvements
139	South Bay Goods movement projects related to Port of Los Angeles and LAX
NEW	Triple Track S.O Thenard
NEW	Harbor Blvd Improvements Between Reconstructed Sampson Way/Harbor Blvd and WB on ramp/Front Street
NEW	Harbor Blvd., Sampson Way, & 7th Street Intersection Reconfiguration
<b>Port of Long Beach</b>	
9146	Shoemaker Bridge 9th/10th Street Bicycle Connector
9143	Mark Bixby Memorial Bicycle Pedestrian Path (over Gerald Desmond Bridge)
9147	North Harbor Coastal Connection (Bike/Ped)
9145	Ocean Blvd Bike/Ped Connector
8042	Pier J Bike Path
9144	South Waterfront Bicycle Pedestrian Path
3065	Pico Ave/9th Street: Intersection Configuration
8023	I-710/Shoemaker Bridge - Downtown Off Ramps
8001	Anaheim Street: Operational & Complete Street Improvements
8140	BNSF/UP Mainline Capacity Improvements: Freight Rail Improvements
8078	Cerritos Channel: New Rail Bridge
7018	Control Point Mole Reconfiguration. Reconfiguration of Control Point (CP) Mole
7019	High Speed Regional Transport Spur From POLA/POLB to Hobart Yard for Freight Movement
7017	ICTF Expansion Project. Modernize Intermodal Facilities Etc.
7023	Navy Mole Expansion. Build Three New Tracks Along the West Side of Pier T (POLB) and Relocate Existing Utilities
8079	Other In-Port Mainline
7001	Pier B St. Intermodal Railyard Expansion Project
7016	SCIG: Develop Near-Dock Intermodal Freight Facility
7002	Terminal Island Wye. Double Trac the South Leg of the Wye
5060	Reeves Crossing: Grade Separation for Reeves Crossing at Terminal Island
2034	I-710/Pico: Reconfigure Interchange at I-710 and Pico Ave
8044	I-710: Reconstruct I-710 Southern Terminus Off Ramp
<b>Union Station</b>	
n/a	USMP Stage 1 Perimeter Improvements
n/a	USMP Expanded, Multi-Modal Passenger Concourse Project
n/a	USMP Consolidated and Relocated Patsaouras Bus Plaza Project