



Metro

Los Angeles County
Metropolitan Transportation
Authority
One Gateway Plaza
3rd Floor Board Room
Los Angeles, CA

Board Report

File #: 2020-0145, **File Type:** Oral Report / Presentation

Agenda Number: 7.

**MEASURE M INDEPENDENT TAXPAYERS OVERSIGHT COMMITTEE
MARCH 4, 2020**

SUBJECT: RECEIVE Oral Report on Transit and Highway Project Status

ACTION: ORAL REPORT

RECOMMENDATION

Oral Report on Transit and Highway Project Status

Measure M Independent Taxpayer Oversight Committee

Program Management Status Report



Brian Boudreau
Senior Executive Officer,
Program Control

Abdollah Ansari
Senior Executive Officer,
Highway Programs

March 4, 2020



Transit

Brian Boudreau
Sr. Executive Officer



Photo by Gayle Anderson/Metro



Metro

Westside Purple Line Extension Section 3 (Century City Constellation to Westwood/VA Hospital)



- Twin-bored tunnels and two new subway stations:
 - Westwood/UCLA
 - Westwood/VA Hospital
- \$3.61 billion budget
- Tunnel, Stations, Trackwork and Systems contracts have been awarded
- FFGA anticipated in March 2020: \$1.3 billion
- Forecast Revenue Service Date 2027

Gold Line Foothill Extension Phase 2B

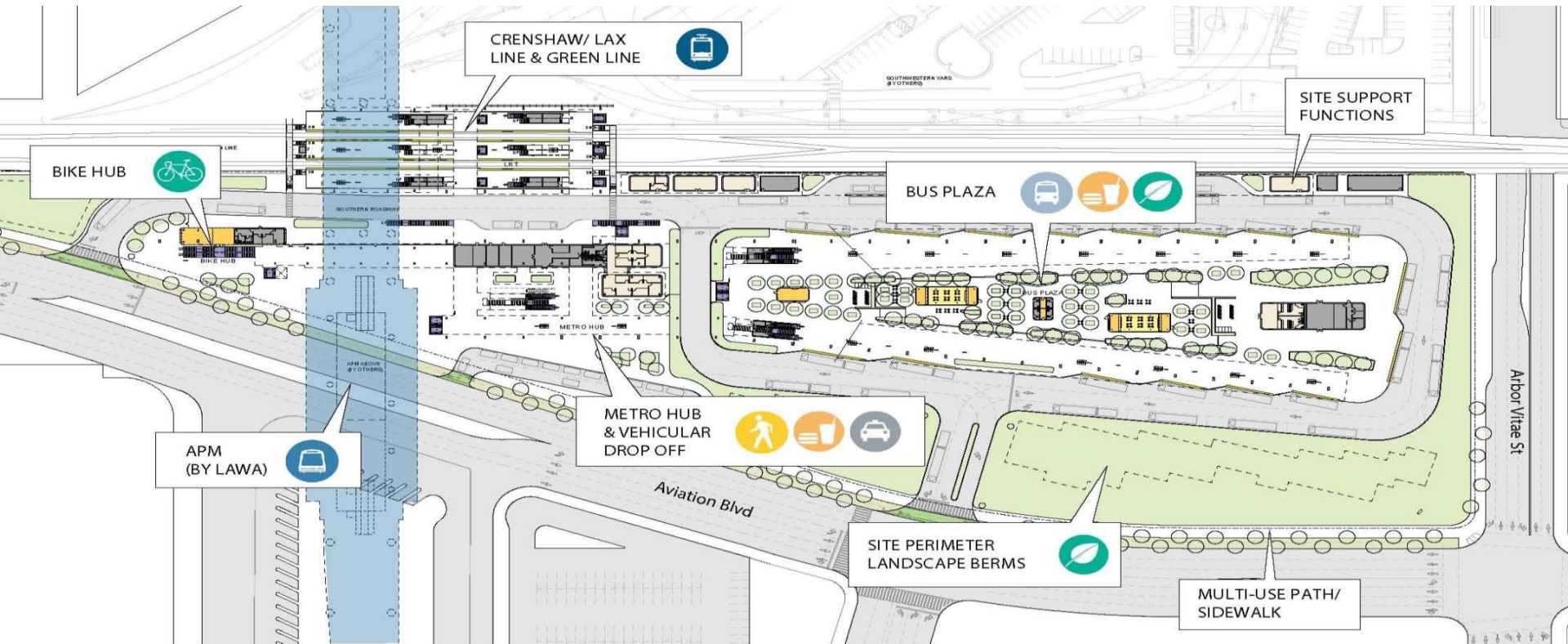
Gold Line Foothill Construction Authority

Design Build Contract for Main Line, Stations, Systems - Awarded Oct. 2019
Complete First Phase to Pomona 2025

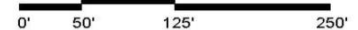


Airport Metro Connector

Design 2018 – Bid & Award 2020 – Construction 2021 – Complete 2024



- Passenger Amenities (Enclosed)
- Passenger Waiting Areas (Enclosed)
- Station Staff Areas
- Station Support Areas
- Vertical Circulation
- Planters / Vegetation / Site Perimeter Landscape
- Multi-use Path (Proposed)



East San Fernando Valley Transit Corridor

Award P.E. Contract – Summer 2019
RFP Design Build Contract – Late 2020
Begin Construction – Early 2022
Complete – 2028



West Santa Ana Transit Corridor

20 Mile Light Rail Line
Union Station to Terminus in Artesia

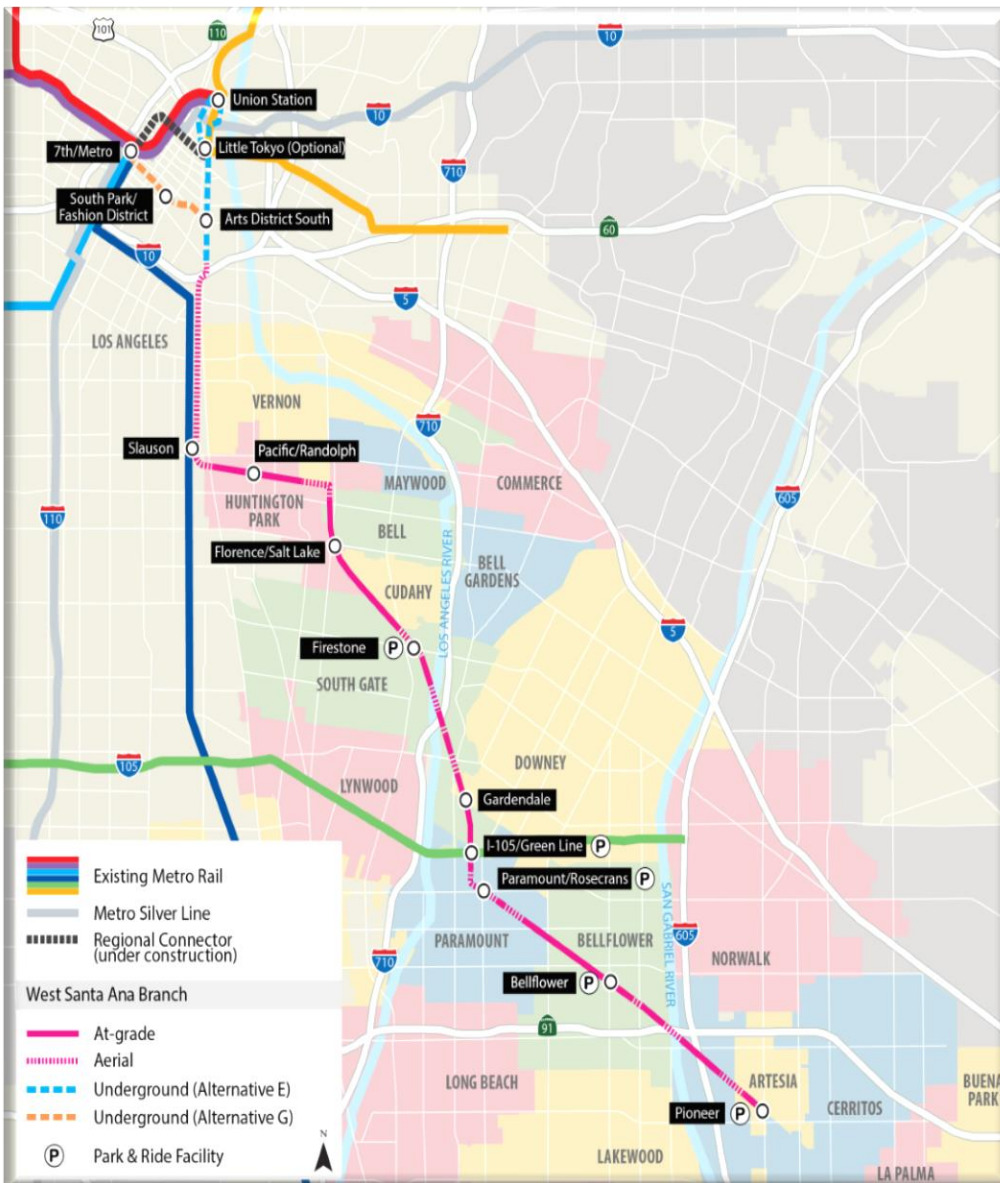
Phase I

Long Range Transportation Plan
Cost Estimate \$1.04B
Environmental Complete -2021
Engineering 2019 to 2022

Phase 2

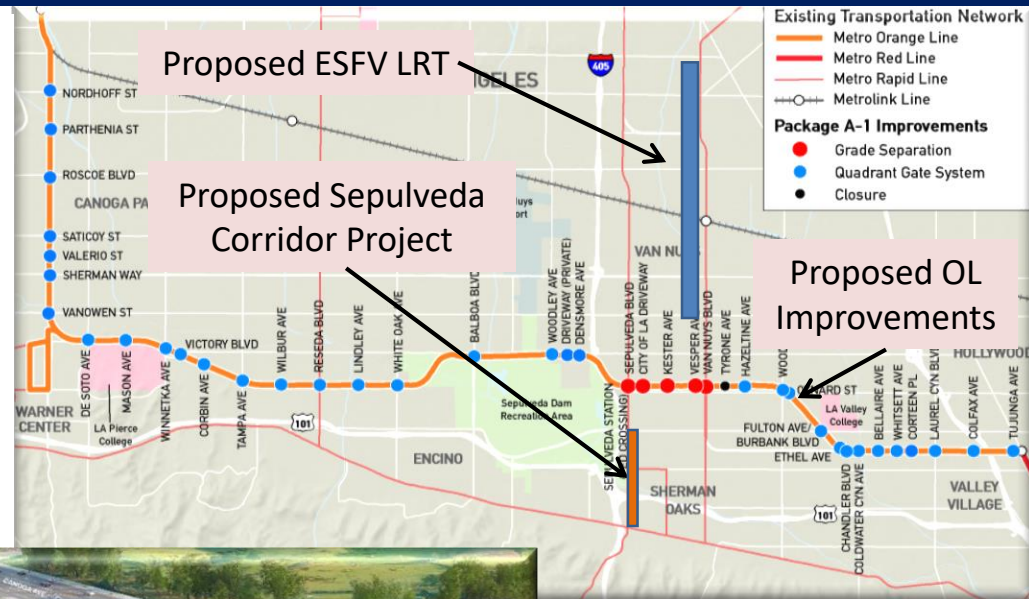
Long Range Transportation Plan
Cost Estimate \$2.97B
Update Environmental 2029

Metro Developing a P3 Package



Orange Line BRT Improvements

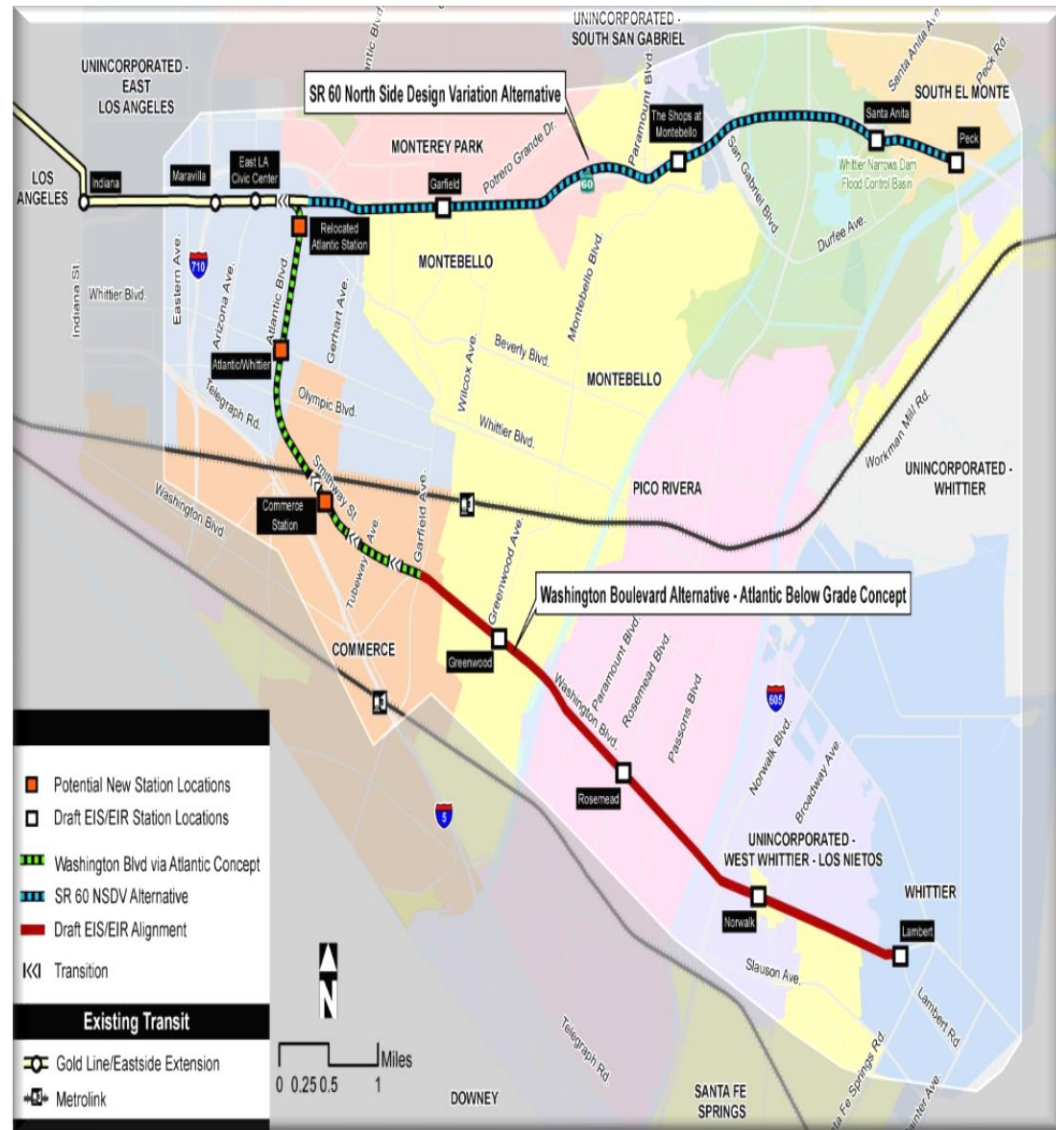
- Railroad-type gates at up to 35 intersections
- Aerial Stations at Sepulveda & Van Nuys
- Provisions for connections to ESFV LRT Terminal Station on Van Nuys
- Designed for future conversion to LRT
- Schedule: 30% Design for Sepulveda and Gate completed in 2019, Major construction to commence in 2021 and complete in 2025.



Gold Line Eastside Extension Phase 2

Board is anticipated to select
Washington Boulevard
alignment

Engineering 2025
Construction One Alignment
2029



Green Line Extension to Torrance

- Redondo Station to Regional Transit Center in Torrance
- EIR 2019 - 2022, awarding Environmental with an option to do Advanced Conceptual Engineering and Preliminary Engineering by early 2020
- Engineering 2022 - 2025
- Construction 2026 - 2030



Sepulveda Pass Phases 1 & 2

- Feasibility Study 2018
- Environmental 2019 - 2021
- Engineering 2021 - 2024
- Pursuing P3 with Project Development Agreement



Measure M - Highways

Abdollah Ansari
Sr. Executive Officer



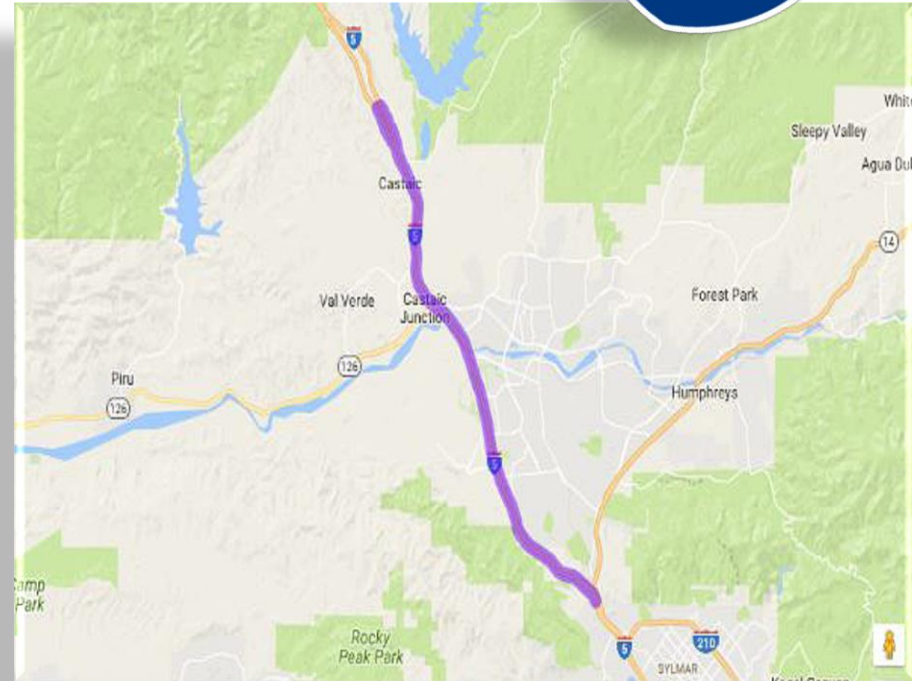
Measures M Major Highway Projects

For Reference Only	Project (Final Project to be Defined by the Environmental Process)	Notes	Schedule of Funds Available		Subregion*	2016 - 2067 Local, State, Federal, Other Funding 2015\$	Measure — Funding 2015\$	Most Recent Cost Estimate 2015\$**	Modal Code
			Ground-breaking Start Date†	Expected Opening Date (3 year range)					
	Expenditure Plan Major Projects			1 st yr of Range					
1	Airport Metro Connect 96th St. Station/Green Line Ext LAX ®	a,p	FY 2018	CY 2021	sc	\$233,984	\$347,016	\$581,000	T
2	Westside Purple Line Extension Section 3 ®	b	FY 2018	FY 2024	w	\$986,139	\$994,251	\$1,980,390	T
3	High Desert Multi-Purpose Corridor (HDMC)®	q	FY 2019	FY 2021	nc	\$100,000	\$170,000	\$270,000	H
4	I-5 N Cap. Enhancements (SR-14 to Lake Hughes Rd) ®		FY 2019	FY 2023	nc	\$544,080	\$240,000	\$784,080	H
5	Gold Line Foothill Extension to Claremont ®	c	FY 2019	FY 2025	sg	\$78,000	\$1,019,000	\$1,097,000	T
6	Orange Line BRT Improvements	n	FY 2019	FY 2025	sf	\$0	\$286,000	\$286,000	T
7	BRT Connector Orange/Red Line to Gold Line	o	FY 2020	FY 2022	av	\$0	\$240,300	\$240,300	T
8	BRT Connector Orange/Red Line to Gold Line	o	FY 2020	FY 2022	sf	\$0	\$26,700	\$26,700	T
9	East SF Valley Transit Corridor Project ®	d	FY 2021	FY 2027	sf	\$520,500	\$810,500	\$1,331,000	T
10	West Santa Ana Transit Corridor LRT ®	b,d	FY 2022	FY 2028	gc	\$500,000	\$535,000	\$1,035,000	T
11	Crenshaw/LAX Track Enhancement Project	e,p	FY 2022	FY 2026	sc	\$0	\$49,599	\$49,599	T
12	SR-71 Gap from I-10 to Rio Rancho Rd.		FY 2022	FY 2026	sg	\$26,443	\$248,557	\$275,000	H
13	LA River Waterway & System Bikepath		FY 2023	FY 2025	cc	\$0	\$365,000	\$365,000	H
14	Complete LA River Bikepath		FY 2023	FY 2025	sf	\$0	\$60,000	\$60,000	H
15	Sepulveda Pass Transit Corridor (Ph 1) ®	b,f	FY 2024	FY 2026	sf	\$0	\$130,000	\$130,000	H
16	Sepulveda Pass Transit Corridor (Ph 1) ®	b,f	FY 2024	FY 2026	w	\$0	\$130,000	\$130,000	H
17	Vermont Transit Corridor	o	FY 2024	FY 2028	cc	\$400,000	\$25,000	\$425,000	T
18	SR-57/SR-60 Interchange Improvements	d	FY 2025	FY 2031	sg	\$565,000	\$205,000	\$770,000	H
19	Green Line Extension to Crenshaw Blvd in Torrance ®	d,g	FY 2026	FY 2030	sb	\$272,000	\$619,000	\$891,000	T
20	I-710 South Corridor Project (Ph 1) ®	d,h	FY 2026	FY 2032	gc	\$150,000	\$250,000	\$400,000	H
21	I-105 Express Lane from I-405 to I-605	p	FY 2027	FY 2029	sc	\$0	\$175,000	\$175,000	H
22	Sepulveda Pass Transit Corridor (Ph 2) ®	b	FY 2024	FY 2033	sf	\$1,567,000	\$1,270,000	\$2,837,000	T
23	Sepulveda Pass Transit Corridor (Ph 2) ®	b	FY 2024	FY 2033	w	\$1,567,000	\$1,270,000	\$2,837,000	T
24	Gold Line Eastside Extension (One Alignment) ®	d	FY 2029	FY 2035	gc	\$957,000	\$543,000	\$1,500,000	T
25	Gold Line Eastside Extension (One Alignment) ®	d	FY 2029	FY 2035	sg	\$957,000	\$543,000	\$1,500,000	T
26	West Santa Ana Transit Corridor LRT ®	r	FY 2022	FY 2041	cc	\$1,082,500	\$400,000	\$1,482,500	T
27	West Santa Ana Transit Corridor LRT ®	r	FY 2022	FY 2041	cc	\$982,500	\$500,000	\$1,482,500	T
28	I-710 South Corridor Project (Ph 2) ®		FY 2032	FY 2041	gc	\$658,500	\$250,000	\$908,500	H
29	I-5 Corridor Improvements (I-605 to I-710)		FY 2036	FY 2042	gc	\$46,060	\$1,059,000	\$1,105,060	H
30	Crenshaw Northern Extension	i	FY 2041	FY 2047	cc	\$495,000	\$1,185,000	\$1,680,000	T
31	Crenshaw Northern Extension	i	FY 2041	FY 2047	w	\$0	\$560,000	\$560,000	T
32	I-405/I-110 Int. HOV Connect Ramps & Intrchnq Improv ®		FY 2042	FY 2044	sb	\$0	\$250,000	\$250,000	H
33	I-605/I-10 Interchange		FY 2043	FY 2047	sg	\$472,400	\$126,000	\$598,400	H
34	SR 60/I-605 Interchange HOV Direct Connectors		FY 2043	FY 2047	sg	\$360,600	\$130,000	\$490,600	H
35	Lincoln Blvd BRT	l,o	FY 2043	FY 2047	w	\$0	\$102,000	\$102,000	T
36	I-110 Express Lane Ext South to I-405/I-110 Interchange		FY 2044	FY 2046	sb	\$228,500	\$51,500	\$280,000	H
37	I-405 South Bay Curve Improvements		FY 2045	FY 2047	sb	\$250,840	\$150,000	\$400,840	H
38	Green Line Eastern Extension (Norwalk)	p	FY 2046	FY 2052	sc	\$570,000	\$200,000	\$770,000	T
39	SF Valley Transportation Improvements	m	FY 2048	FY 2050	sf	\$0	\$106,800	\$106,800	T
40	Sepulveda Pass Westwood to LAX (Ph 3)	p	FY 2048	FY 2057	sc	\$3,800,000	\$65,000	\$3,865,000	T
41	Orange Line Conversion to Light Rail	p	FY 2051	FY 2057	sf	\$1,067,000	\$362,000	\$1,429,000	T
42	City of San Fernando Bike Master Plan		FY 2052	FY 2054	sf	\$0	\$5,000	\$5,000	H
43	Historic Downtown Streetcar		FY 2053	FY 2057	cc	\$0	\$200,000	\$200,000	T
44	Gold Line Eastside Ext. Second Alignment	p	FY 2053	FY 2057	sc	\$110,000	\$2,890,000	\$3,000,000	T
45	High Desert Multi-Purpose Corridor - LA County Segment	p	FY 2063	FY 2067	sc	\$32,982	\$1,845,718	\$1,878,700	H
46	Expenditure Plan Major Projects Subtotal					\$19,581,027	\$20,989,941	\$40,570,969	

I-5 North HOV and Truck Lanes



- 14 miles of HOV lanes in both directions
- 2 miles of truck climbing lanes at the south end
- 7 bridge modifications at:
 - Gavin Canyon
 - Calgrove Blvd.
 - Butte Canyon
 - Magic Mountain Pkwy.
 - Santa Clara OH
 - Rye Canyon
 - Castaic Creek Bridge
- 1 bridge replacement at Weldon Canyon
- Soundwalls and retaining walls
- Final Design approved in July 2019
- Construction: Summer 2020



SR-71



Project Summary

- In Final Design phase
- 2 segments:
 - Mission to SR-60 – upgrade from expressway to freeway
 - Mission to I-10 – upgrade including raising 2 bridges over the RR tracks



Status Update

- Construction of Mission to SR-60: Summer 2020
- Construction of Mission to I-10: 2023

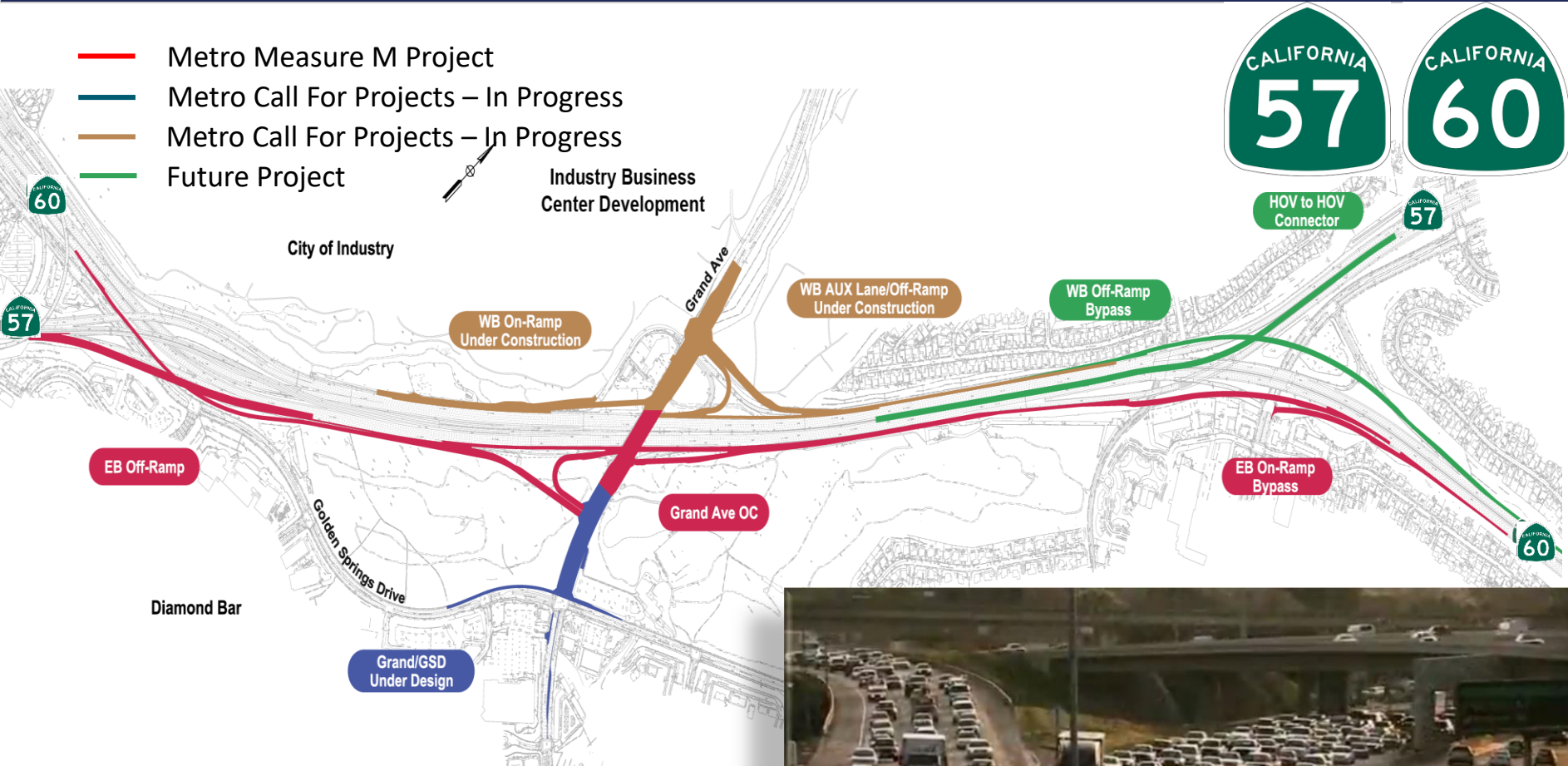


Metro



SR-57/SR-60 Interchange

- Metro Measure M Project
- Metro Call For Projects – In Progress
- Metro Call For Projects – In Progress
- Future Project



Construction: 2022



I-710 (South)

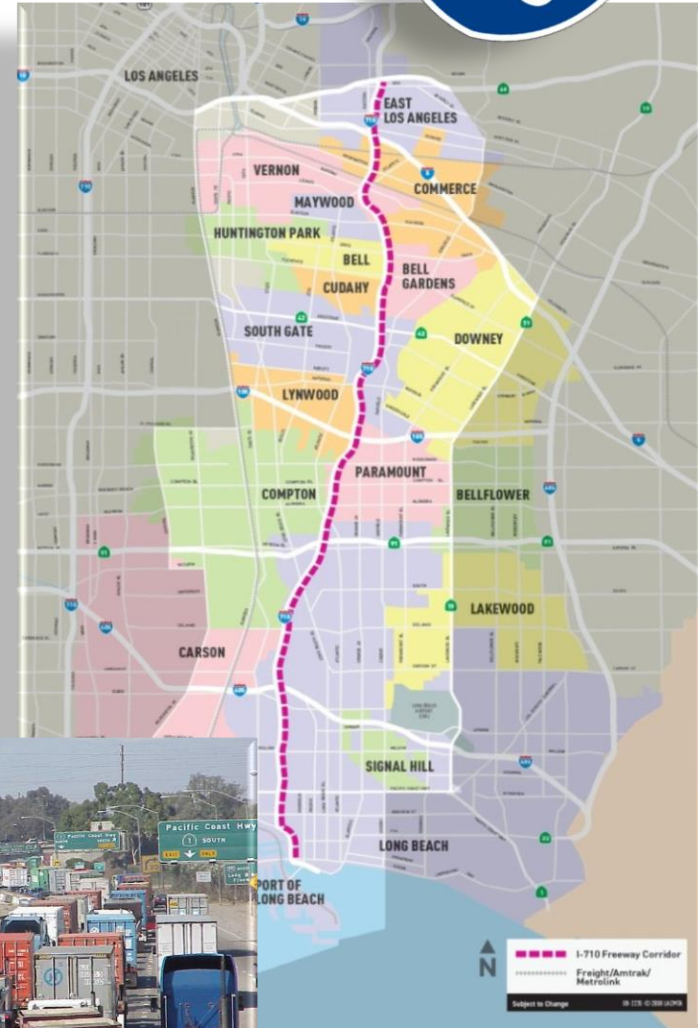


Project Summary

- In PAED phase 18 miles between the Ports of Long Beach and Los Angeles and the SR-60
- Locally-Preferred Alternative Selected:
 - 5C: One lane + upgrading
- Estimated Cost: \$6-\$11 billion
- Includes “Early Action” Projects
- \$420 mil in Measure R and \$500 mil. in Measure M

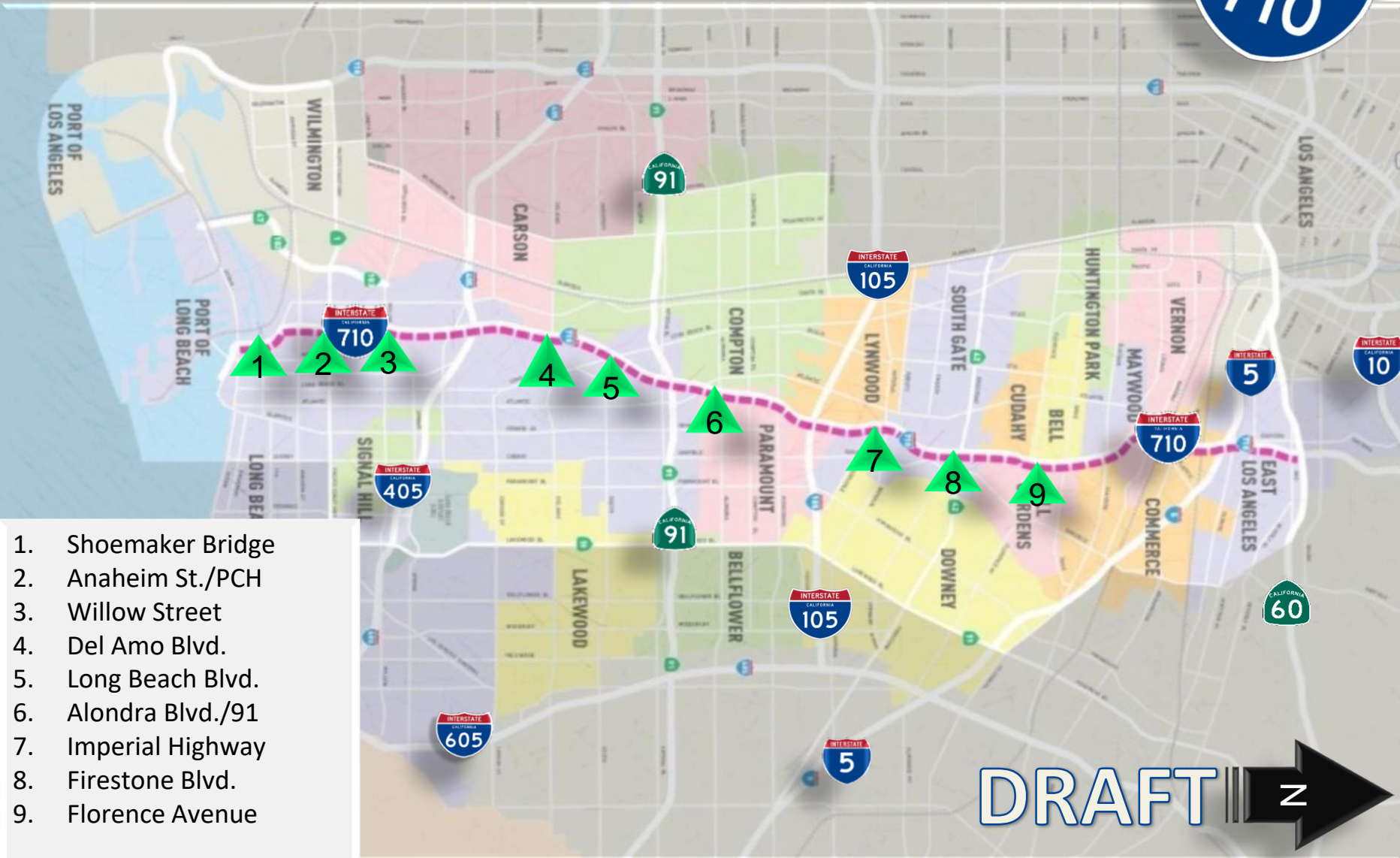
Status Update

- Final EIR/EIS: TBD
- Early Action projects final design starting upon approval of the final corridor ED or individual EDs and contingent upon no legal action preventing progress



Metro

I-710 Early Action Freeway Projects



- 1. Shoemaker Bridge
- 2. Anaheim St./PCH
- 3. Willow Street
- 4. Del Amo Blvd.
- 5. Long Beach Blvd.
- 6. Alondra Blvd./91
- 7. Imperial Highway
- 8. Firestone Blvd.
- 9. Florence Avenue

DRAFT

I-605 Corridor

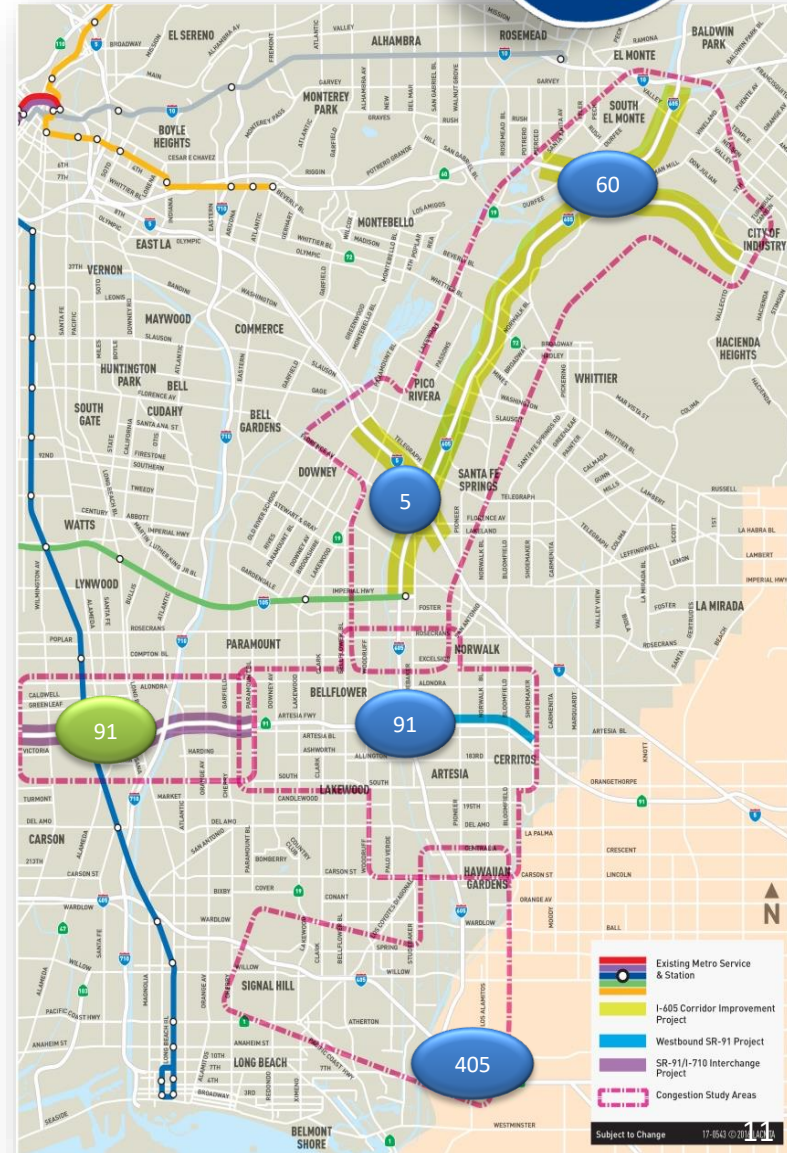


Project Summary

- Freeway widening/additional lanes, ExpressLanes, ramp reconfigurations, arterial intersection enhancements, signage, and safety features
- Estimated total cost of projects in the I-605 corridor between I-105 and I-10: \$5+ billion

Status Update

- Corridor environmental studies in progress – completion in 2021
- “Early Action” projects - PIDs, environmental clearance, and final design in progress



“Hot Spots” Program



I-605/Valley Blvd.
Construction in 2020

SR-60/7th Ave.

I-605/Beverly Blvd.
Construction in 2021

WB-91 Alondra to
Shoemaker

SR-91 Atlantic to
Cherry

SR-91 Central to
Acacia

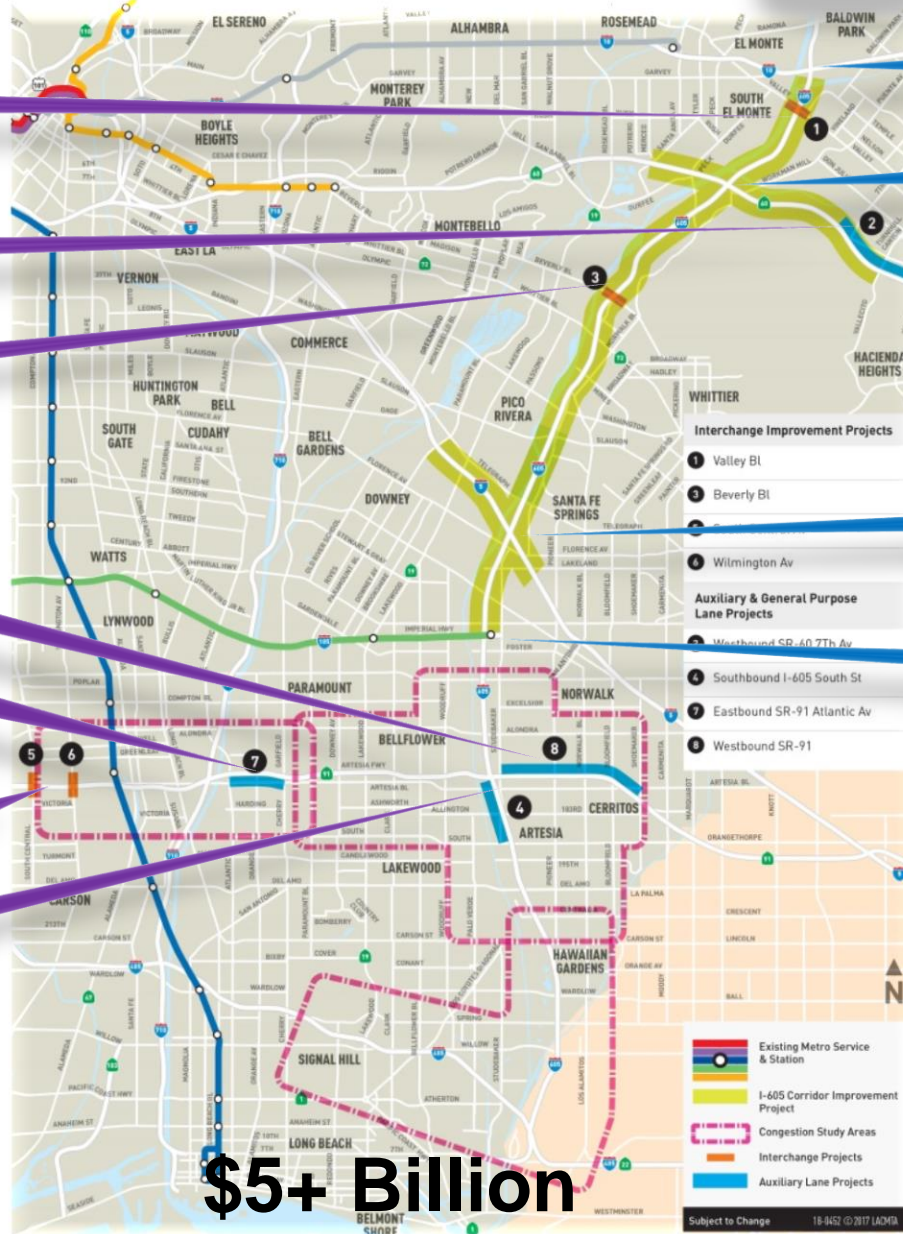
I-605/South St.
Construction in 2020

I-605/I-10

I-605/SR-60

I-605/I-5

I-605/I-105



- Interchange Improvement Projects**
- 1 Valley Bl
 - 3 Beverly Bl
 - 4 Wilmington Av
- Auxiliary & General Purpose Lane Projects**
- 2 Westbound SR-60 7th Av
 - 6 Southbound I-605 South St
 - 7 Eastbound SR-91 Atlantic Av
 - 8 Westbound SR-91

- Existing Metro Service & Station
- I-605 Corridor Improvement Project
- Congestion Study Areas
- Interchange Projects
- Auxiliary Lane Projects

+ Over 30 Arterial Intersection Improvements



\$5+ Billion

Subject to Change 18-0452 ©2017 LACMA

I-405 South Bay

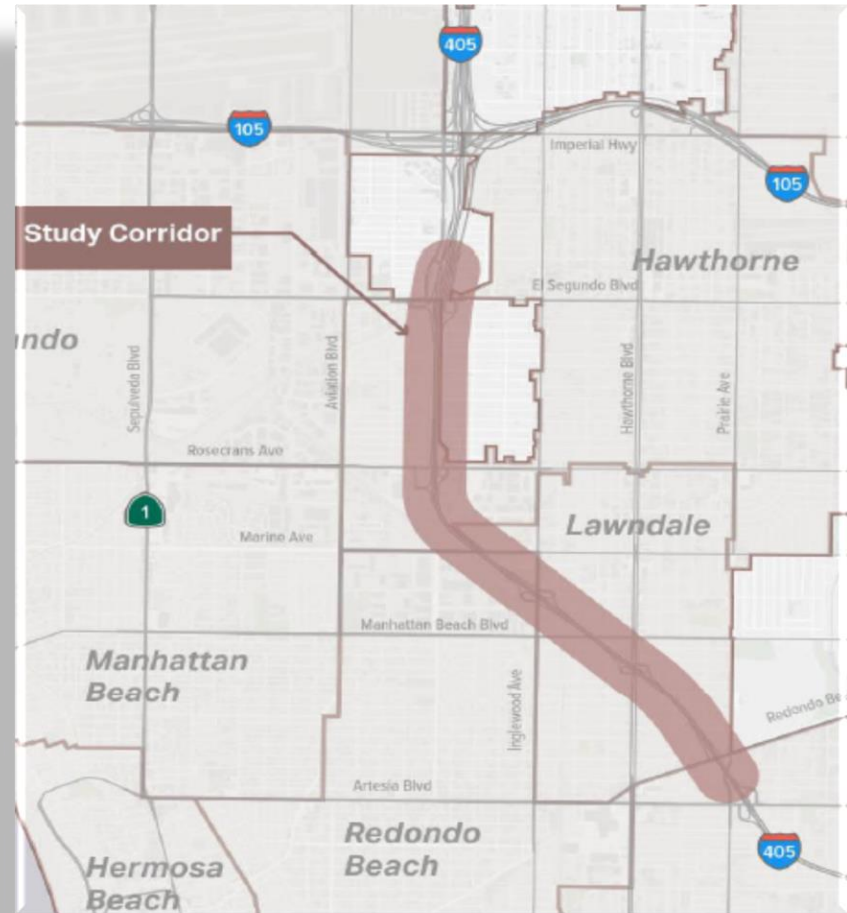


Project Summary

- Add auxiliary lanes NB & SB from I-105/I-405 to Artesia Blvd off-ramp

Status Update

- PSR completed Nov. 2018
- PAED commenced in March 2019
- Construction in 2023



High Desert Corridor

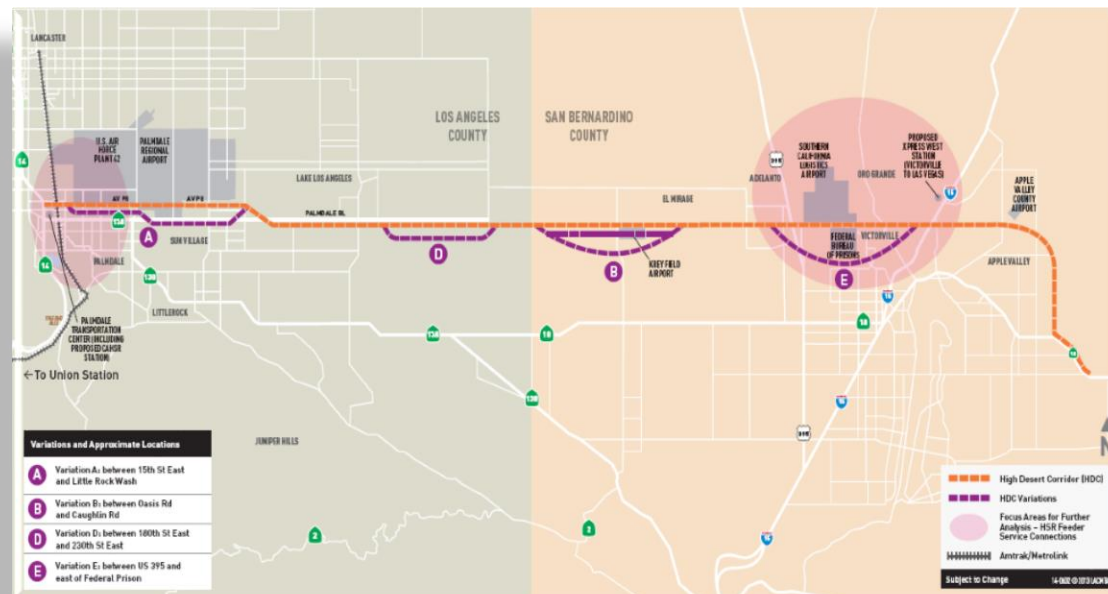


Project Summary

- 63 miles - Highway, Expressway, Tollway, High Speed Rail, Bikeway, and energy production/transmission corridor concepts
- Connecting North Los Angeles County and San Bernardino County (Victorville)
- Transit connection between the CHSR and the XpressWest
- In Measure M for ROW and related services in 2019
- More funds in later years
- Final EIR/EIS completed in 2016

Status Update

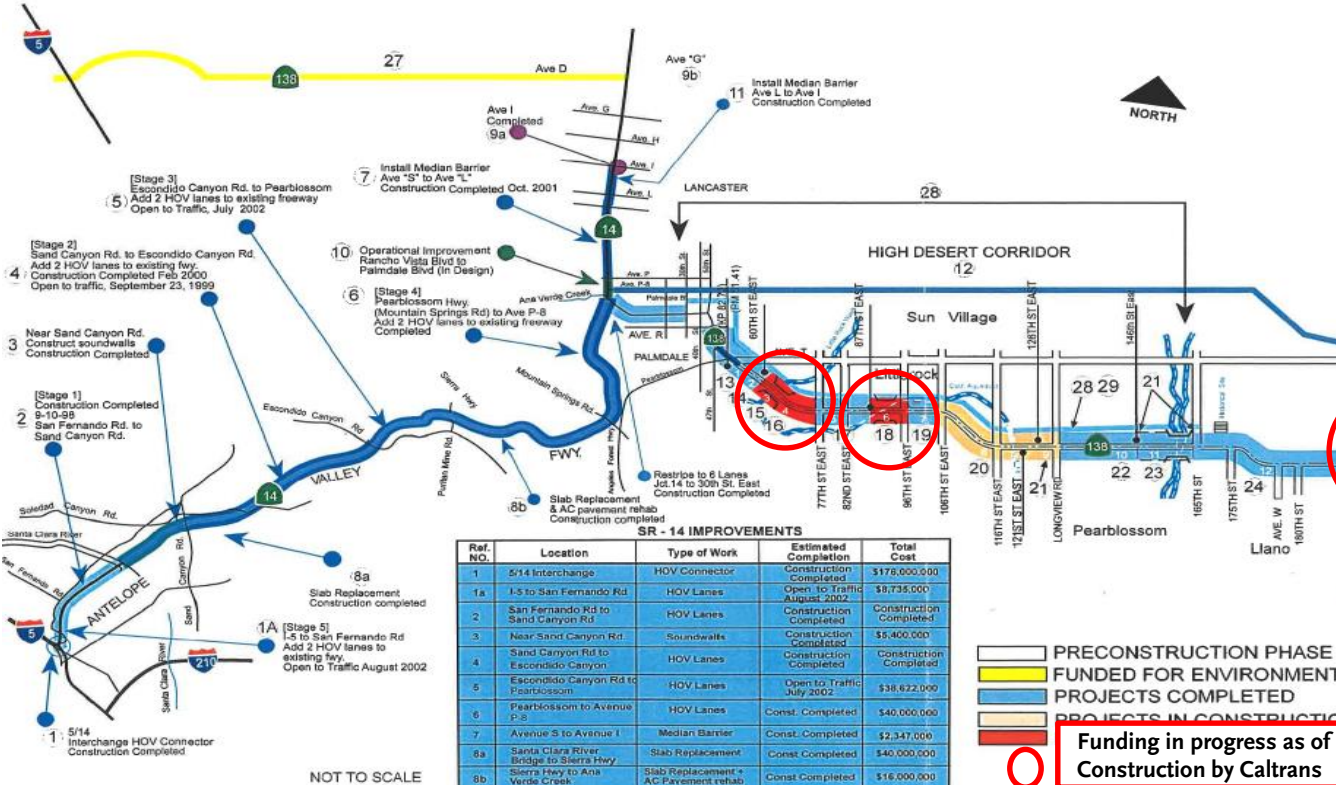
- Multi-agency efforts in assessing other feasible alternatives



SR-138, SR-14 to LA/SB County Line



CALTRANS PROJECTS ON ROUTES 14 AND 138 IN LOS ANGELES AND SAN BERNARDINO COUNTIES



Ref. NO.	Location	Type of Work	Estimated Completion	Total Cost
1	5/14 Interchange	HOV Connector	Construction Completed	\$178,000,000
1A	J-5 to San Fernando Rd	HOV Lanes	Open to Traffic August 2002	\$8,735,000
2	San Fernando Rd to Sand Canyon Rd	HOV Lanes	Construction Completed	Construction Completed
3	Near Sand Canyon Rd	Soundwalls	Construction Completed	\$5,400,000
4	Sand Canyon Rd to Escondido Canyon	HOV Lanes	Construction Completed	Construction Completed
5	Escondido Canyon Rd to Pearblossom	HOV Lanes	Open to Traffic July 2002	\$38,622,000
6	Pearblossom to Avenue P-S	HOV Lanes	Const. Completed	\$40,000,000
7	Avenue S to Avenue I	Median Barrier	Const. Completed	\$2,347,000
8A	Santa Clara River Bridge to Sierra Hwy	Slab Replacement	Const. Completed	\$40,000,000
8b	Sierra Hwy to Ana Verde Creek	Slab Replacement + AC Pavement rehab	Const. Completed	\$16,000,000
10	Rancho Vista Blvd to Palmdale Blvd	Operational Improvement	Summer 2019	\$20,000,000
11	Lancaster Avenue L to Avenue I	Median Barrier	Const. Completed	\$1,711,000

Ref. NO.	Location	Type of Work	Completion Status	Total Cost \$ x 1000
12	LA-14 to SB-18 High Desert Corridor	Multi-purpose	Completed	\$4.5 to Billion
13	From Ave R to 60th St (Extended Seg-1)	Pavement Rehabilitation	Completed	\$1,000
14	From 60th St. to E of Ave T (Seg. 2)	Widen to 4 lanes	Completed	\$10,000
15	From 0.3 mile West of Little Rock Wash to 77th St.	Widen to 4 lanes	Not funded	\$24,500
16	Combine Seg. 3 & 4			
17	From 77th St to 87th St (Seg. 5)	Widen to 3 lanes	Completed	\$11,500
18	87th St. to 96th St (Seg. 6)	Widen to 4 lanes	Not funded	\$32,000
19	From 96th St to 106th St (Seg. 7)	Widen to 4 lanes	Summer 2009	\$10,000
20	from 0.7 mile West of 121st St. to Longview Rd	Widen to 4 lanes	Fall 2018	\$20,200
21	Combine Segs 8&9			
22	From Longview Rd to 145th St (Seg. 10)	Replace Bridge and Widen Highway to 4 lanes	Completed	\$9,000
23	Twin Bridge (Seg. 11)	Widen to 4 lanes	Completed	\$24,000
24	From 165th to 190th St. (Seg. 12)	Widen to 4 lanes	Completed	\$39,811
25	From 185th St. to SR-18 Junction (Seg. 13)	Widen to 4 lanes	Not funded	\$62,000
26	Jet 18 to SB County Line	Widen roadway and Pave Boulder	Summer 2017	\$30,300
27	I-5 to LA 14	Widen to 6 lanes	PAID Summer 2017	\$1,100,000
28	LA-138 from 30th St E to 185th St E	Cold plane and overlay	Completed	\$19,200
29	LA-138 from 30th St E to 155th St E	ADA compliance	Winter 2019	\$12,000

PRECONSTRUCTION PHASE
 FUNDED FOR ENVIRONMENTAL STUDIES
 PROJECTS COMPLETED
 PROJECTS IN CONSTRUCTION
 Funding in progress as of March 2018. Construction by Caltrans



Measure M - 1st 5 Years Subregional Projects

South Bay Subregion

Measure M Multi-Year Subregional Plan - Transportation System & Mobility Improvements Program (Expenditure Line 50)

	Agency	Project ID No.	Project/Location	Funding Phases	FY2019-20	FY2020-21	FY 2021-22	FY 2022-23	Total Program
1	INGLEWOOD	MM5502.02	ITS (GAP) CLOSURE IMPROVEMENTS	CONSTRUCTION	\$6,000,000	\$7,500,000			\$ 13,500,000
2	INGLEWOOD	MM5502.03	INGLEWOOD INTERMODAL TRANSIT/PARK AND RIDE FACILITY**	PAED, PS&E, CONSTRUCTION	\$4,596,541	\$4,596,541			\$9,193,082
3	LA COUNTY	MM5502.04	182ND ST/ ALBERTONI ST. TRAFFIC SIGNAL SYNCH PROGRAM*	PAED, PS&E, CONSTRUCTION				\$ 4,228,500	\$ 4,228,500
4	LA COUNTY	MM5502.07	DEL AMO BLVD (EAST) TRAFFIC SIGNAL SYCH PROGRAM*	PAED, PS&E, CONSTRUCTION				\$ 1,324,500	\$ 1,324,500
5	LA COUNTY	MM5502.06	VAN NESS TRAFFIC SIGNAL SYCH PROGRAM*	PAED, PS&E, CONSTRUCTION				\$ 1,702,000	\$ 1,702,000
6	SBCCOG	MM5502.05	SOUTH BAY FIBER NETWORK	CONSTRUCTION	\$ 4,165,114	\$ 224,251			\$ 4,389,365
7	ROLLING HILLS ESTATES	MM5502.08	PALOS VERDES DRIVE NORTH AT DAPPLEYGRAY SCHOOL	PAED, PS&E, ROW, CONSTRUCTION	\$ 51,300	\$ 63,000	\$ 1,440,000		\$ 1,554,300
8	INGLEWOOD	MM5502.09	PRAIRIE AVE DYNAMIC LANE CONTROL SYSTEM**	PS&E, CONSTRUCTION	\$ 6,560,000	\$ 6,560,000			\$ 13,120,000
TOTAL PROGRAMMING AMOUNT					\$21,372,955	\$18,943,792	\$1,440,000	\$7,255,000	\$49,011,747

* Conditional programming approval as only high level scope of work was developed and reviewed. Future annual update process will reconfirm the programming.

** Final itemized project cost estimate shall be prepared by the City and submitted to Metro for review and approval prior to issuance of a Funding Agreement.

Only those costs deemed eligible by Metro will be reimbursed.



Measure M - 1st 5 Years Subregional Projects

South Bay Subregion

Measure M Multi-Year Subregional Plan - Transportation System & Mobility Improvements Program (Expenditure Line 66)

	Agency	Project ID No.	Project/Location	Funding Phases	FY2019-20	FY2020-21	FY 2021-22	FY 2022-23	Total Program
1	LA CITY	MM5508.01	FIVE SIGNAL MODIFICATION AND OPERATIONAL	PAED, PSE, CONSTRUCTION	230,000	240,000	90,000	2,240,000	2,800,000
2	LA CITY	MM5508.02	ATSAC COMMUNICATION SYSTEM IMPROVEMENT IN SAN PEDRO	PSE, CONSTRUCTION	250,000	750,000	1,500,000		2,500,000
3	LA CITY	MM5508.03	ASTAC COMMUNICATIONS NETWORK INTEGRATION WITH LA COUNTY	PAED, PSE, CONSTRUCTION	40,000	160,000	400,000	1,400,000	2,000,000
4	MANHATTAN BEACH	MM5508.04	ADVANCED TRAFFIC SIGNAL SYSTEM	PSE, CONSTRUCTION	1,100,000	2,540,000	1,800,000		5,440,000
5	REDONDO BEACH	MM5508.05	REDONDO BEACH TRANSITY CENTER AND PARK AND RIDE	CONSTRUCTION	4,000,000	500,000			4,500,000
6	TORRANCE	MM5508.06	TRANSPORTATION MANAGEMENT SYSTEM IMPROVEMENTS	PSE, CONSTRUCTION	30,000	360,000			390,000
TOTAL PROGRAMMING AMOUNT					\$5,650,000	\$4,550,000	\$3,790,000	\$3,640,000	\$17,630,000

Measure M - 1st 5 Years Subregional Projects

South Bay Subregion

Measure M Multi-Year Subregional Plan - South Bay Highway Operational Improvements (Expenditure Line 63)

	Agency	Project ID No.	Project/Location	Funding Phases	FY2019-20	FY2020-21	FY 2021-22	FY 2022-23	Total Program
1	HAWTHORNE	MM5507.01	NORTH EAST HAWTHORNE MOBILITY IMPROVEMENT PROJECT	PSE, ROW, CONSTRUCTION	400,000	800,000	950,000	800,000	2,950,000
TOTAL PROGRAMMING AMOUNT					\$ 400,000	\$ 800,000	\$ 950,000	\$ 800,000	\$ 2,950,000

Measure M - 1st 5 Years Subregional Projects

Las Virgenes/Malibu Subregion

Measure M Multi-Year Subregional Plan - Highway Efficiency Program

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	Agoura Hills	MM5503.01	U.S 101/Palo Comado Interchange - Chesebro Rd S to Driver Ave. & Chesebro Rd to N of interchange	PS&E Construction	\$ 5,393,212	\$ 2,802,224			\$ 8,195,436
2	Agoura Hills	MM5503.02	Kanan Road Corridor from Thousand Oaks Blvd to Cornell Road *	Env PS&E			1,051,879	1,761,614	2,813,493
3	Hidden Hills	MM5503.03	Long Valley Road/Valley Circle/US-101 On-Ramp Improvements	PS&E, ROW Construction	468,006	243,169	249,247	255,230	1,215,652
4	Malibu	MM5503.04	Malibu Park and Ride Lots	ROW	3,100,000				3,100,000
5	Malibu	MM5503.05	Median Improvements PCH	PS&E Construction	150,000	150,000	1,000,000	700,000	2,000,000
6	LA County	MM5503.06	Malibu Canyon Road Improvements - Malibu Canyon Rd @ Piuma Rd. & Las Virgenes Rd @ Las Virgenes Canyon Rd	PS&E ROW Construction	200,000	125,000	700,000	475,000	1,500,000
Total Programming Amount					\$ 9,311,218	\$ 3,320,393	\$ 3,001,126	\$ 3,191,844	\$ 18,824,581

* Conditional programming approval as only high level scope of work was developed and reviewed. Future annual update process will reconfirm the programming.



Measure M - 1st 5 Years Subregional Projects

Arroyo Verdugo Subregion

Measure M Multi-Year Subregional Plan - Highway Efficiency, Noise Mitigation and Arterial Program

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	South Pasadena	MM5506.01	Columbia St. and Pasadena Ave Turn Lanes, Columbia St. and Orange Grove Ave. Striping	PS&E Construction		\$ 150,000			\$ 150,000
2	South Pasadena	MM5506.02	Garfield Ave. and Monterey Road Signal	PS&E Construction		400,000			400,000
3	South Pasadena	MM5506.03	Garfield Ave. and Oak St. Signal	PS&E Construction		400,000			400,000
4	South Pasadena	MM5506.04	Fremont Ave. and Huntington Dr. Signage *	PS&E Construction				140,000	140,000
5	South Pasadena	MM5506.05	Grevelia St and Fair Oaks Ave. Striping and Signal Timing *	PS&E Construction				50,000	50,000
Total Programming Amount					\$ -	\$ 950,000	\$ -	\$ 190,000	\$ 1,140,000

* Conditional programming approval as only high level scope of work was developed and reviewed. Future annual update process will reconfirm the programming.

Measure M - 1st 5 Years Subregional Projects

North County Subregion

Measure M Multi-Year Subregional Plan - Highway Efficiency Program

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	Palmdale	MM5504.01	SR-138 Palmdale Blvd. SR-14 Ramps	Construction		1,117,074	1,117,073	1,117,073	\$ 3,351,220
2	North County Transportation Coalition	MM5504.02	SR-14 Capacity Enhancement/Operational Improvement **	TBD	500,000	1,500,000	1,350,000	1,350,000	4,700,000
Total Programming Amount					\$ 500,000	\$ 2,617,074	\$ 2,467,073	\$ 2,467,073	\$ 8,051,220

** Pending identification of a specific project after initial investigations and consultation with Caltrans and Metro.

San Gabriel Subregion

Measure M Multi-Year Subregional Plan - Highway Efficiency Program

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	SGVCOG (ACE)	MM5505.01	State Route 60 and Lemon Avenue	Construction	\$ 5,273,500				\$ 5,273,500
Total Programming Amount					\$ 5,273,500	\$ -	\$ -	\$ -	\$ 5,273,500



Metro



Metro