



Board Report

File #: 2015-1326, File Type: Program

Agenda Number: 12.

REVISED
PLANNING AND PROGRAMMING COMMITTEE
NOVEMBER 18, 2015

SUBJECT: MEASURE R HIGHWAY SUBREGIONAL PROGRAM (MRHSP)**ACTION: APPROVE ADOPTION OF UPDATED PROJECT LIST****RECOMMENDATION**

- A. APPROVING the updated **project list and changes in the funding levels for the Measure R Highway Subregional Program (MRHSP) in Arroyo Verdugo, Las Virgenes-Malibu, South Bay, North County, and Gateway Cities subregions** as shown in Attachment A.
- B. APPROVING a **time extension for Lindero Canyon Road Interchange Improvements**; and
- C. AUTHORIZING the Chief Executive Officer (CEO) to negotiate and execute all necessary agreements for approved projects

ISSUE

The project lists for the MRHSP are updated biannually in order to provide each subregion with the opportunity to revise the proposed Measure R Highway Program implementation plan. The updated attached project lists include projects which have already received prior Board approval, as well as proposed changes related to schedule, scope, funding allocation and the addition or removal of projects. The Board's approval is required as the updated project lists are the basis for Metro to enter into agreements with each respective implementing agency.

DISCUSSION

The Measure R Expenditure Plan includes the following projects in the Highway Subregional Program:

- Highway Operational Improvements in Arroyo Verdugo subregion
- Highway Operational Improvements in Las Virgenes/Malibu subregion
- Interstate 405, I-110, I-105 and SR-91 Ramp and Interchange Improvements in South Bay
- State Route 138 Capacity Enhancements in North County
- Interstate 605 Corridor "Hot Spots" Interchanges in Gateway Cities
- Interstate 710 South and/or Early Action Projects in Gateway Cities

These projects are not fully defined in the Measure R Expenditure Plan. Definition, development, and implementation of specific projects are done through collaborative efforts by the project sponsors, their respective COGs, and Metro's Highway Program staff.

At the May 2015 meeting, the Board approved revised project lists and funding allocations for the aforementioned projects. This update reflects the project changes recommended by each Subregion including an additional \$25 million to support five projects as discussed in detail in Attachment A.

A nexus determination has been completed for each new project added to the list. All of the projects on the attached project lists provide highway operational benefits and meet the highway operational improvements and ramp/interchange improvements definition approved by the Board in October 2009 as part of the adoption of Metro's Long Range Transportation Plan.

Highway Operational Improvements in Arroyo Verdugo subregion

The updated project list includes funding adjustments for current projects recommended by the Arroyo Verdugo Subregion. The Subregion is recommending the updated project list detailed in Attachment A, totaling \$61.304 million.

The project list adjustments are as follows:

City of Glendale

- Deobligate \$1,041,285 from the Fairmont Ave. Grade Separation at San Fernando Rd. Project (MR310.01). The revised total project budget is \$1,658,700. This project has been completed and was delivered under budget. Original design and construction estimates performed in 2012 were higher than actual costs.
- Program an additional \$201,500 in Prior Years for the Glendale Narrows Bikeway Culvert project (MR310.13). The revised total project budget is \$876,500. The City of Glendale awarded a construction contract and is requesting additional funds for this project. Due to constraints identified during project and requirements from the Army Corps of Engineers and Los Angeles County Flood Control, bids were higher than the original engineering estimates done in 2013.

The subregion's project list, as detailed in Attachment A, totaling \$61.304 million, does not exceed the \$64 million forecast to be available for the subregion over FY11-20.

Highway Operational Improvements in the Las Virgines-Malibu Subregion

The updated project list includes adjustments in schedules, scopes, and funding of currently programmed projects, and the addition of one new project recommended and approved by the Las Virgines-Malibu Subregion. The Subregion is recommending the updated project detailed in Attachment A, totaling \$121.351 million.

The project list adjustments are as follows:

City of Westlake Village:

- Deobligate \$78,211 from the City of Westlake Village's Lindero Canyon Road Interchange, Phase 3A Design Project (MR311.01) for a total revised project phase amount of \$343,745. The design phase was completed, audited, and \$78,211 in project savings were identified.
- Deobligate \$17,140 from the City of Westlake Village's Highway 101 Park and Ride Lot (Design) Project (MR311.02) for a total revised project budget of \$243,650. The design phase was completed, audited and \$17,140 in project savings were identified.
- Program an additional \$95,351 in FY15-16 for the City of Westlake Village Highway 101 Park and Ride Lot (Construction) Project (MR311.19). The revised total programmed amount in FY15-16 is \$425,355. The revised total project budget has increased to \$4,983,605. The addition \$95,351 programmed to the project are savings from MR311.01 and MR311.02. The City is requesting the programming of the projects saving due to increased construction costs as a result of higher bid prices.
- Time extension of \$4,808,498 for Prop C 25% for Call for Project number F1132, Lindero Canyon Road Interchange Improvements. The \$4,808,498 million of Prop C programed for this project has been incorporate and committed to three Measure R projects; \$195,839 to MR311.01, \$1,702,336 to MR311.18 and \$2,910,323 to MR311.10. Staff is recommending an extension of the Prop C 25% lapse date to June 30, 2017, to align with the completion dates of the aforementioned projects.

City of Aguora Hills:

- Deobligate \$500,000 in Prior Years from the Kanan Road Overpass Expansion - PSR, PR Project (MR311.14). The total revised project budget is \$250,000 programmed in Prior Years. The city has down scoped the project to provide funds to (MR311.04).
- Program an additional \$500,000 in Prior Years for the Aguora Road/Kanan Road Intersection Improvements Project (MR311.04). The revised programmed amount in Prior Years is \$1,000,000 for a total revised project budget of \$1,000,000. The city is programming additional funds to this project due to increased design and right of way costs.

City of Calabasas

- Deobligate \$2,486,000 from the Parkway Calabasas/US-101 Off-Ramp Project (MR311.09). The total revised programmed amount and project budget is \$214,000. The project is being re-scoped and deferred until adjacent property development decisions are finalized. The deobligated funds will be programed into MR311.07 and MR311.08.
- Program an additional \$649,800 in FY15-16 for the Mulholland Highway Scenic Corridor

Completion Project (MR311.07). The total revised programmed amount in FY15-16 is \$2,139,800. The new project budget is \$4,389,800. The City is requesting the additional programming of funds due to increased construction costs as result of higher than expected bid prices.

- Program an additional \$1,956,200 in FY15-16 for the Las Virgenes Scenic Corridor Widening Project (MR311.08). The total revised programmed amount in FY15-16 is \$3,396,200. The new project budget is \$5,746,200. The City is requesting the additional programming of funds due to increased construction costs as result of higher than expected bid prices.

City of Hidden Hills

- Project title refinement for the “Signal, Sidewalks, and Intersection Work Near Valley Circle and US-101(MR311.35)” to Long Valley Road/Valley Circle/ US-101 On-Ramp Improvements Project. The revised project title more clearly describes the project limits and project scope.

City of Malibu:

- Deobligate \$350,000 in Prior Years from the Civic Center Way Widening Project (MR311.24). The revised programmed amount in Prior Years is \$150,000 for a total project budget of \$3,000,000. The city is deobligating funds from the project due to a lower cost estimates.
- Deobligate \$150,000 in Prior Years and \$2,150,000 in FY15-16 from the Pacific Coast Highway (PCH) Intersections Improvement Project (MR311.27). The total revised project budget is \$1,000,000. The city is deobligating funds due to a project down scope and is reprogramming the additional funds to “PCH Signal System Improvements” a higher priority project.
- Deobligate \$300,000 in Prior Years from the PCH Regional Traffic Message System (CMS) Project (MR311.29). The total revised project budget is \$500,000. The city is deobligating funds due to revised lower cost estimates.
- Deobligate \$50,000 in Prior Years and \$700,000 in FY15-16 from the PCH Roadway and Bike Route Improvements from Busch Drive to the Eastern City Limits Project (MR311.31). The city is deobligating all project funds and deleting this project from the list. Caltrans will develop and implement this project in the future.
- Program a total of \$3,700,000 for the PCH Signal System Improvements from John Tyler Drive to Topanga Canyon Blvd Project. The funds are programmed over three fiscal years, \$300,000 in FY15-16, \$1,500,000 in FY16-17 and \$1,900,000 in FY17-18. This is a new operational improvement project being proposed by the City. The project description and nexus can be found below.

This project will establish a connection between traffic signals in the project corridor and connect the signals to the Caltrans Traffic Management Center. The project will also include the development and implementation of new signal timing coordination plans. It is anticipated that this project will improve traffic flow and reduce incidents.

Measure R NEXUS to Highway Operational Definition: This is a traffic signal upgrade/timing/synchronization project, which is an eligible Measure R Highway Operational Improvement Project.

Interstate 405, I-110, I-105 and SR-91 Ramp and Interchange Improvements (South Bay)

The project list for the I-405, I-110, I-105 and SR-91 Ramp and Interchange Improvements, recommended by the South Bay Council of Governments, is adding one new project. The South Bay Subregion project list detailed in Attachment A, totaling \$258.121 million, does not exceed the \$275 million forecasted to be available for the South Bay Subregion over FY11-21.

The project list adjustments are as follows:

Metro

- Program \$1,500,000 for the Inglewood Transit Center at Florence/La Brea. The funds will be programmed over two fiscal years, \$260,000 in FY15-16 and \$1,240,000 in FY16-17. In collaboration with key stakeholder such as the City of Inglewood, the SBCCOG and Multiple departments at Metro, Staff is recommending the approval of the new operational improvement project located at Florence/La Brea, pending SBCCOG approval in November. The project description and nexus can be found below.

This project will modify the Downtown Inglewood park and ride as a bus transit facility. The proposed project will provide a safer connection for passengers to the rail line and improve bus connections. Additionally, the project will encourage bus and transit use by locating bus services closer to the rail platform, improving passenger convenience and safety.

Measure R NEXUS to Highway Operational Definition: This is a park and ride/transit facility, which is an eligible Measure R Highway Operational Improvement Project.

State Route 138 Capacity Enhancements

The project list for State Route 138 Capacity Enhancements does not include any new adjustments. The implementing agencies in the North County continue to deliver their projects according to the approved plan.

The North County's project list detailed in Attachment A, has programmed funding for the 11 projects totaling \$200 million.

Interstate 605 Corridor "Hot Spots" Interchanges

The proposed revised project list includes adjustments in schedules, scopes, funding for current projects and Third Party support services, and the addition of one new project for the Gateway Cities. The I-605/SR-91/I-405 Technical Advisory Committee (TAC) is recommending the revised project list detailed in Attachment A, totaling \$110.159 million

The project list adjustments are as follows:

Metro

- Program an additional \$19,198,000 for the I-605/I-5 Project Approval and Environmental Document (PA&ED) (AE11375). The funds will be programmed over 4 fiscal years: \$1,500,000 in FY15-16, \$5,000,000 in FY16-17, \$5,000,000 in FY17-18 and \$7,698,000 in FY18-19. Additionally, reprogram \$1,500,000 from Prior Years to FY15-16, the first fiscal year of the contract. The total project budget of the I-605 PA&ED is \$20,698,000. The Metro Board adopted the contract at the September meeting.
- Program an additional \$1,840,000 for the I-710/91 Project Study Report/ Project Development Support Document (AE11372). The funds will be programmed over two fiscal years: \$1,090,000 in FY15-16 and \$750,000 in FY16-17. Additionally, reprogram \$500,000 in Prior Years to FY15-16, the first fiscal year of the contract. The total project budget of I-710/SR-91 PSR-PDS is \$2,340,000. The Metro Board adopted the contract at the September meeting.
- Deobligate \$4,830,000 for a total revised project budget of \$680,000 in Prior Years from Professional Services contract PS4720-3252, Intersection Improvements in the City of Whittier (e.g. Whittier Blvd at Santa Fe Springs, Painter Ave and Colima Ave). Metro is managing the PA&ED at these intersections.

The City of Whittier requested that Metro manage and complete project delivery phases at three intersections on their behalf. The City of Whittier would now like to manage and solicit consultant services for PS&E, ROW, and construction of the intersection improvements.

- Deobligate \$2,057,000 for a total revised project budget of \$473,000 in Prior Years and \$100,000 in FY15-16 for Professional Services contract PS4720-3250, Intersection Improvements in the Cities of Long Beach and Bellflower (e.g. Lakewood Blvd in Long Beach at Spring St., Bellflower Blvd. in Long Beach at Spring St. and Lakewood Blvd. in Bellflower at Alondra Blvd.). The revised total project budget is \$573,000. Metro is managing the PA&ED at these intersections.

The cities requested that Metro manage and complete all project delivery phases on behalf of the cities and PS&E on Lakewood Blvd. at Alondra Blvd. for the City of Bellflower. The cities of Bellflower and Long Beach will be managing and soliciting consultant services for future phases.

- Deobligate \$3,239,000 for a total project budget of \$561,000 in Prior Years For Professional Services contract PS4720-3251, Intersection Improvements in the Cities of Cerritos and La Mirada/Santa Fe Springs (e.g. Valley View Ave in La Mirada and Santa Fe Springs at

Rosecrans Ave. and Alondra Blvd., Bloomfield Ave. in Cerritos at Artesia Blvd. and South Street in Cerritos at Carmenita Road). Metro is managing the PA&ED at these intersections.

The cities requested that Metro manage and complete project delivery phases on behalf of the cities and was requested to complete PS&E on Bloomfield Ave. at Artesia Blvd, South Street at Carmenita Road and Valley View at Rosecrans Ave and Alondra Blvd. The cities of La/Mirada/Santa Fe Springs and Cerritos will manage future phases.

- Program \$100,000 in FY15-16 for intersection improvements on Bloomfield Ave at Artesia Blvd & intersection improvements on South St. at Carmenita Road in the City of Cerritos. Metro will manage and complete PS&E at these two intersections in a new contract. This project was previously listed as being completed by Metro (all phases). The city of Cerritos will manage ROW and Construction phases.
- Program \$100,000 in FY15-16 for intersection improvements on Valley View Ave at Rosecrans Ave and Alondra Blvd in the Cities of La Mirada/Santa Fe Springs. Metro will manage and complete PS&E at the two intersections. This project was previously listed as being completed by Metro (all phases). The City of Santa Fe Springs will manage ROW and Construction phases.

Caltrans

- Program an additional \$134,000 for Third Party Support Services to be provided by Caltrans for the I-710/SR-91 PSR-PDS. The funds will be programmed over two fiscal years: \$59,000 in FY15-16 and \$75,000 in FY16-17. Additionally, reprogram \$100,000 from FY 14-15 to FY 15-16, the first fiscal year of work for the project. The total project budget is \$234,000.

City of Long Beach

- Program \$250,000 for the City of Long Beach's Soundwall on I-605 near Spring St. The funds will be programmed over three fiscal years: \$50,000 in FY15-16, \$100,000 in FY16-17 and \$100,000 in FY17-18. This is a new highway operational improvement project.

This project will complete the Environmental and Design of one soundwall in the City of Long Beach on the east side of the I-605 near Spring Street. This project is currently on the Metro Soundwall Phase 2 project list.

Measure R NEXUS to Highway Operational Definition: This is a soundwall project, which is an eligible Measure R Highway Operational Improvement.

- Program \$454,000 in FY15-16 for Lakewood Blvd. Intersection Improvements at Spring St. This project was previously foreseen to be completed by Metro (all phases). The City of Long Beach will manage and complete PS&E and Construction of the project.
- Program \$493,000 in FY 15-16 for Bellflower Blvd Intersection Improvements at Spring St.

This project was previously listed as being completed by Metro (all phases). The City of Long Beach will manage and complete PS&E and Construction.

City of Bellflower

- Program \$644,000 in FY15-16 for Lakewood Blvd intersection improvements at Alondra Blvd. This project was previously foreseen to be completed by Metro (all phases). The City of Bellflower will manage and complete construction of the project.
- Deobligate \$880,000 in FY15-16 from the Bellflower Blvd/Artesia Blvd. Intersection Improvements Project (MR315.16). The total revised programmed amount in FY15-16 is \$6,210,000. Reprogram \$1,100,000 from FY14-15 to FY16-17. The revised project budget is \$7,310,000. The City of Bellflower has rescoped and phased the project, requiring a lower project budget to complete phase 1. The revised project limits are Bellflower Blvd. between the SR-91 overcrossing and Artesia Blvd.

City of Cerritos

- Program \$292,000 in FY15-16 for South Street Intersection Improvements at Carmenita Road. This project was previously listed as being completed by Metro (all phases) PS4720-3251. The City of Cerritos will manage and complete ROW and Construction of the project.
- Program \$1,756,000 in FY15-16 for Bloomfield Ave Intersection Improvements at Artesia Blvd. This project was previously listed as being completed by Metro (all phases) PS4720-3251. The City of Cerritos will manage and complete ROW acquisition and Construction of the project.

City of Santa Fe Springs

- Program \$524,000 in FY15-16 for Valley View Ave intersection improvement at Rosecrans Ave. This project was previously listed as being completed by Metro (all phases). The City of Santa Fe Springs will manage and complete Construction of the project.
- Program \$2,967,000 in FY15-16 to account for Valley View Intersection Improvements at Alondra Blvd. This project was previously listed as being completed by Metro (all phases). The City of Santa Fe Springs will manage and complete ROW acquisition and Construction of the project.

City of Whittier

- Program \$1,568,000 in FY15-16 for Whittier Blvd Intersection Improvements at Santa Fe Springs Roads. This project was previously listed as being completed by Metro (all phases). The City of Whittier will manage and complete PS&E, ROW and Construction of the project.
- Program \$1,760,000 in FY15-16 for Whittier Blvd Intersection Improvements at Painter Ave.

This project was previously listed as being completed by Metro (all phases). The City of Whittier will manage and complete PS&E, ROW, and Construction of the project.

- Program \$1,646,000 in FY15-16 for Whittier Blvd Intersection Improvements at Colima Ave. This project was previously listed as being completed by Metro (all phases). The City of Whittier will manage and complete PS&E, ROW, and Construction of the project.

The proposed updates to the Interstate 605 Corridors “Hot Spots” Interchanges projects list do not exceed the \$164.8 million forecast to be available over FY11-20.

Interstate 710 South and/or Early Action Projects

The updated project list includes adjustments in funding for current projects, and Third Party support funding for the Gateway Cities. The I-710 South Technical Advisory Committee (TAC) and I-710 South Project Committee is recommending the updated project list detailed in Attachment A, totaling \$120.906 million.

The funding requests are as follow:

Caltrans

- Deobligate \$200,000 for Third Party Support of the I-710 Early Action Project - Soundwall PS&E Phase. Third Party Support Services are no longer needed for Independent Quality Assurance efforts by Caltrans.
- Program an additional \$1,000,000 in FY16-17 for Third Party Support Services of the I-710 South EIR/EIS Enhanced IQA (MR306.27). The revised project budget is ~~\$4,000,000~~ \$3,500,000. Due to recent scope changes in the I-710 South EIR/EIS contracts and an extension of the project schedule, Caltrans is requesting additional funds for “enhanced” Independent Quality Assurance efforts. This includes expenses related to technical reviews and feedback provided for the I-710 Recirculated Draft EIR/EIS document and technical reports, as well as meeting attendance, effective January 1st, 2014.

City of Bell Gardens

- Reprogram the \$348,000 Florence Ave/Eastern Ave Intersection Widening project budget over two fiscal years: \$17,000 in FY 14-15 and \$331 in FY17-19 to match the Call for Project 2013 local match requirements.

DETERMINATION OF SAFETY IMPACT

The recertification of the approved project lists and funding allocations will have no adverse impact on the safety of Metro’s patrons and employees.

FINANCIAL IMPACT

Funding for the highway projects is from the 20% Measure R Highway Capital Funds earmarked for all subregions. Funds are available for Arroyo Verdugo (Project No. 460310), Las Virgenes/Malibu (Project No. 460311), and South Bay (Project No. 460312) subregions in the FY16 budget. These three programs are all under Cost Center 0442 in Account 54001 (Subsidies to Others).

Funding for Metro's portion of the SR-138 Project Approval and Environmental Document (September 2012 Board action) is included in the FY16 budget under project No. 460330, Cost Center 4720 in Account 50316. The remaining funds are distributed from the 20% Measure R Highway Capital Funds via funding agreements to Caltrans, and the Cities of Palmdale and Lancaster under Cost Center 0442 in Account 54001 (Subsidies to Others).

Funding for projects in the I-605/SR-91/I-405 Corridor "Hot Spots" and I-710 Early Action Project lists are included in the FY16 budget.

Moreover, programmed funds are based on estimated revenues. Since each MRSHP is a multi-year agreement, the cost center managers and the Managing Executive Officer of the Highway Program will be responsible for budgeting the costs in current and future years. Adjustments in programmed funds, as necessary for future years, will be made in the next Board update.

ALTERNATIVES CONSIDERED

The Board may choose to not approve the revised project lists and funding allocations. However, this option is not recommended as it will be inconsistent with Board direction given at the time of LRTP adoption and may delay project delivery.

NEXT STEPS

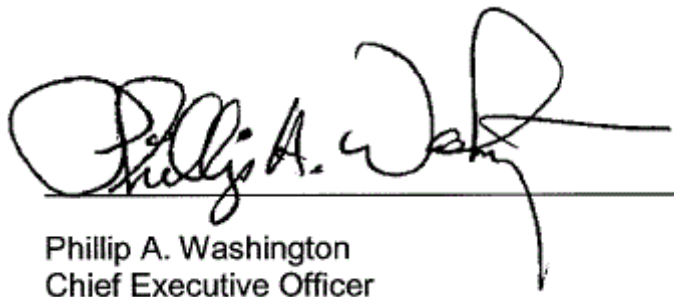
Metro Highway Program staff will continue working with the subregions to deliver their projects. As the work progresses, updates will be provided to the board on a periodic basis.

ATTACHMENTS

Attachment A - Measure R Highway Subregional Program Project List

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Phillip A. Washington
Chief Executive Officer

ATTACHMENT A

Arroyo Verdugo Subregion Measure R Highway Operational Improvements Project List										
(Programmed Dollars in Thousands)										
Change (Add) (Delete)	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation (10 yr)	Prior Years					2019-2020
					2015-2016	2016-2017	2017-2018	2018-2019		
			Arroyo Verdugo Operational Improvements (38 projects - 3 New)	61,304	34,788	6,735	2,758	8,009	9,014	0
			10 Year Forecasted Funds in Long Range Plan (cumulative)	64,000						
	Burbank	MR310.06	San Fernando Blvd. / Burbank Blvd. Intersection	2,325						
	Burbank	MR310.08	I-5 Corridor Arterial Signal Improvements	2,600						
	Burbank	MR310.09	SR-134 Corridor Arterial Signal Improvements	2,975						
	Burbank	MR310.07	Widen Magnolia Blvd / I-5 Bridge for center-turn lane, standard lanes, shoulders	3,967		250			3,717	
	Burbank	MR310.11	Olive Ave. / Verdugo Ave. Intersection Improvement	1,600		1,600				
	Burbank	MR310.10	Widen Olive Ave / I-5 Bridge for center-turn lane, standard width lanes, shoulders	3,897		250			3,647	
	Burbank	MR310.23	Chandler Bikeway Extension (Call for Projects Local Match)	600					600	
			TOTAL BURBANK	17,964	9,500	500	0	0	7,964	0
	Glendale	MR310.12	Glendale FWY Ramps/Space 134 "Vision Plan"	293		93	200			
	Glendale	MR310.22	Glendale Narrows Riverwalk Bridge	600		600				
	Glendale	MR310.24	Construction of Bicycle Facilities	300		300				
C	Glendale	MR310.01	Fairmont Ave. Grade Separation at San Fernando Rd. (Construction) (Completed)	1,658.7	1,658.7					
	Glendale	MR310.04	San Fernando/Grandview At-Grade Rail Crossing Imp. (Completed)	1,850	1,850					
C	Glendale	MR310.13	Glendale Narrows Bikeway Culvert	876.5	876.5					
	Glendale	MR310.16	SR-134 / Glendale Ave. Interchange Modification	1,400	1,400					
	Glendale	MR310.14	Verdugo Road Signal Upgrades (Completed)	557	557					
	Glendale	MR310.19	Traffic Signal Sync Brand / Colorado-San Fernando / Glendale-Verdugo (Completed)	1,250	1,250					
	Glendale	MR310.20	Verdugo Rd / Honolulu Ave / Verdugo Blvd Intersection Modification (Completed)	400	400					
	Glendale	MR310.05	Central Ave Improvements / Broadway to SR-134 EB Offramp (Completed)	3,250	3,250					
	Glendale	MR310.18	Sonora Avenue At-Grade Rail Crossing Safety Upgrade (Completed)	2,700	2,700					
	Glendale	MR310.21	Colorado St. Widening between Brand Blvd. and east of Brand Blvd. (Completed)	350	350					
	Glendale	MR310.37	Verdugo Boulevard Rehabilitation (Verdugo Road to Ely City Boundary)	1,000	1,000					
	Glendale	MR310.36	Signalizations of SR-2 Fwy Ramps @ Holly	600		100	500			
	Glendale	MR310.39	Widening of SR-2 Fwy Ramps @ Mountain	1,200			150	1,050		
	Glendale	MR310.25	210 Soundwalls Project	5,000		2,000	3,000			
	Glendale	MR310.35	Signal Installations at Various Locations	1,500	750					
	Glendale	MR310.30	North Brand Boulevard Rehabilitation (Freeway 134 to Mountain Street)	1,000			1,000			
	Glendale	MR310.32	Regional Arterial Performance Measures	100			100			
	Glendale	MR310.34	Regional Bike Stations (Call Match)	315			315			
	Glendale	MR310.40	Pacific Ave: Colorado to Glenoaks & Burchett St: Pacific To Central Street Improvements	3,315	3,315					
	Glendale	MR310.41	Doran St. (From Brand Blvd. To Adams St.)	1,200		1,200				
	Glendale	MR310.42	Arden Ave. (From Highland Ave. to Kenilworth St.)	900	900					
	Glendale	MR310.43	Verdugo Rd. Street Improvements Project (Traffic Signal Modification)	585		585				
	Glendale	TBD	Verdugo Wash: Cycle Track: Feasibility Study	408	50	300	58			
	Glendale	TBS	Ocean Blvd. Project - from Verdugo Rd. to Nily City Boundaries	1,000	1,000					
			TOTAL GLENDALE	33,608	20,300	5,035	2,158	5,065	1,050	0
	La Canada Flintridge	MR310.03	Soundwalls on Interstate 210 (Completed)	4,588	4,588					
	La Canada Flintridge	TBD	Soundwalls on Interstate 210 in La Canada-Flintridge (phase 2)	1,800		600	600		0	0
			TOTAL LA CANADA FLINTRIDGE	6,388	4,588	600	600	0	0	0
	LA County	MR310.44	Soundwalls on Interstate 210 in LA Crescenta-Montrose	3,344	400	600	2,344		0	0
			TOTAL LA COUNTY	3,344	400	600	0	2,344	0	0
			TOTAL ARROYO VERDUGO	61,304	34,788	6,735	2,758	8,009	9,014	0
5 Year Allocation										

Las Virgenes/Malibu Operational Improvements

(Programmed Dollars in Thousands)

5 Year Allocation

ATTACHMENT A

INTERSTATE 405, I-110, I-105, and SR-91 RAMP and INTERCHANGE IMPROVEMENTS (SOUTH BAY)												
Measure R Highway Operational Improvements Project List												
Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority settings & budget processes)												
(Programmed Dollars in Thousands)												
(Change (Add) (Delete))	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	
INTERSTATE 405, I-110, I-105, and SR-91 RAMP and INTERCHANGE IMPROVEMENTS (SOUTH BAY)												
10 Year Forecasted Funds In Long Range Plan (Cumulative)												
	SBHP		Early Action Contingency	258,121	130,264	25,788	22,934	35,763	20,675	12,537	8,660	
	SBHP		Program Contingency	237,000								
	SBHP		Strategic Positioning Projects Reserve	0								
			TOTAL SBHP	15,500	5,500	2,000	2,000	2,000	2,000	2,000	0	
	SBCCOG	MR312.01	South Bay Cities COG Program Development & Oversight and Program Administration (<i>Project Development Budget Included</i>)	13,375	8,904	860	1,900	500	594	617		
	SBCCOG	MR312.31	South Bay Subregional Intelligent Transportation System (ITS) Plan	7,000	4,000	2,000	1,000					
	Metro/ SBCCOG	MR312.30	Corridor Refinement Studies for I-405 from I-110 to I-105 and I-105 from I-405 to I-110	700	700							
			TOTAL SBCCOG	21,075	13,604	2,860	2,900	500	594	617	0	
	Caltrans	MR312.11	ITS: I-405, I-110, I-105, SR-91 at Freeway Ramp/Arterial Signalized Intersections	5,000	5,000							
	Metro/ Caltrans	MR312.24	I-110 Aux lane from SR-91 to Torrance Blvd Aux lane & I-405/I-110 Connector	20,000	1,450	2,000	5,900	5,900	4,750	0		
	Metro/ Caltrans	MR312.25	I-405 at 182nd St. / Crenshaw Blvd Improvements	20,000	1,700	300	2,000	5,900	5,900	4,200		
	Caltrans	MR312.29	ITS: Pacific Coast Highway and Parallel Arterials from I-105 to I-110	9,000	9,000							
	Caltrans	MR312.45	PAED Integrated Corridor Management System (ICMS) on I-110 from Artesia Blvd and I-405	1,000					1,000			
			TOTAL CALTRANS	55,000	17,150	2,300	7,900	11,800	11,650	4,200	0	
	Carson	MR312.37	Sepulveda Blvd widening from Alameda Street to ICTF Driveway	1,158	1,158							
			TOTAL CARSON	1,158	1,158	0	0	0	0	0	0	
	El Segundo	MR312.22	Maple Ave Improvements from Sepulveda Blvd to Parkview Ave. (<i>COMPLETED</i>)	2,500	2,500							
	El Segundo	MR312.27	PCH Improvements from Imperial Highway to El Segundo Boulevard	400	400							
	El Segundo	MR312.57	Park Place Roadway Extension and Railroad Grade Separation Project	350	350							
			TOTAL EL SEGUNDO	3,250	3,250	0	0	0	0	0	0	
	Gardena	MR312.17	Rosecrans Ave Improvements from Vermont Ave to Crenshaw Blvd	5,140	5,140							
	Gardena	MR312.19	Artesia Blvd at Western Ave Intersection Improvements (Westbound left turn lanes) (<i>COMPLETED</i>)	675	675							
	Gardena	MR312.21	Vermont Ave Improvements from Rosecrans Ave to 182nd Street	2,350	2,350							
	Gardena	TBD	Redondo Beach Blvd Arterial Improvements from Crenshaw Blvd to Vermont Ave (<i>Call Match</i>)	720							720	
	Gardena	TBD	Crenshaw Blvd Arterial Improvements from Redondo Beach Blvd to El Segundo Blvd (<i>Call Match</i>)	380							380	
	Gardena	TBD	Artesia Blvd Arterial Improvements from Western Ave to Vermont Ave (<i>Call Match</i>)	620							620	
	Gardena	TBD	Normandie Ave Arterial Improvements from El Segundo Blvd to 177th Street (<i>Call Match</i>)	1,200							1,200	
	Gardena	TBD	Traffic Signal Reconstruction on Vermont at Redondo Beach Blvd and at Rosecrans Ave. (<i>Call Match</i>)	360							360	
	Gardena	TBD	Park and Ride Lots at Southwest corners of El Segundo Blvd at Vermont Ave and at Western ave (<i>Call Match</i>)	1,140							1,140	
			TOTAL GARDENA	12,585	8,165	0	0	0	0	0	4,420	

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(Change Add Delete)	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
	Hawthorne	MR312.03	Rosecrans Ave Widening from I-405 SB off ramp to Isis Ave (COMPLETED)	2,100	2,100						
	Hawthorne	MR312.33	Aviation Blvd at Marine Ave Intersection Improvements (Westbound right turn lane)	3,600	600	3,000					
	Hawthorne	MR312.44	Hawthorne Blvd Improvements from El Segundo Blvd to Rosecrans Ave	7,551	7,551						
	Hawthorne	MR312.47	Signal Improvements on Prairie Ave from 118th St. to Marine Ave.	1,237				618	619		
			TOTAL HAWTHORNE	14,488	10,251	3,000	0	618	619	0	0
	Hermosa Beach	MR312.05	PCH (SR-1/PCH) Improvements between Anita St. and Artesia Boulevard	304	304						
	Hermosa Beach	MR312.38	Pacific Coast Highway at Aviation Blvd Intersection Improvements (Southbound left turn lanes)	872		872					
	Hermosa Beach	TBD	PCH/Aviation Mobility Improvements Project (Call Match)	8,600				8,600			
			TOTAL HERMOSA BEACH	9,776	304	872	0	8,600	0	0	0
	Inglewood	MR312.02	I-405 Off Ramp Improvements at Manchester Blvd.	0							
	Inglewood	MR312.12	Intelligent Transportation System (ITS): City of Inglewood Citywide ITS Master Plan	3,500	3,500						
	Inglewood	MR312.50	ITS: Phase V - Communication Gap Closure on Various Locations, ITS Upgrade and Arterial Detection	384				192	192		
			TOTAL INGLEWOOD	3,884	3,500	0	0	192	192	0	0
	LA City	MR312.56	Del Amo Blvd Improvements from Western Ave to Vermont Ave Project Oversight	100	100						
	LA City	MR312.51	Improve Anaheim St. from Farragut Ave. to Dominguez Channel (Call Match)	1,100		148.54	133.89	817.07			
			TOTAL LA CITY	1,200	100	149	134	817	0	0	0
	LA County	MR312.16	Del Amo Blvd improvements from Western Ave to Vermont Ave	26,820	1,900	5,000	5,000	5,000	5,000	4,920	
	LA County	MR312.52	ITS: Improvements on South Bay Arterials	1,021				401	620		
			TOTAL LA COUNTY	27,841	1,900	5,000	5,000	5,401	5,620	4,920	0
	Lawndale	MR312.15	Inglewood Ave Widening from 156th Street to I-405 Southbound on-ramp	500	500						
	Lawndale	MR312.36	ITS: City of Lawndale Citywide Improvements	1,500	1,500						
	Lawndale	TBD	Redondo Beach Blvd Mobility Improvements from Prairie to Artesia (Call Match)	1,600				800		800	
	Lawndale	TBD	Bike Lanes on Hawthorne Blvd. from Rosecrans Ave to Manchester Beach Blvd	47		12		35			
	Lawndale	TBD	Citywide Mobility	350		350					
			TOTAL LAWDALE	3,997	2,000	362	0	835	0	800	0
	Lomita	MR312.43	Intersection Improvements at Western/Palos Verdes Dr and PCH/Walnut	900	900						
			TOTAL LOMITA	900	900	0	0	0	0	0	0
	Manhattan Beach	MR312.04	Sepulveda Blvd at Marine Ave Intersection Improvements (West Bound left turn lanes)	365	365						
	Manhattan Beach	MR312.28	Seismic retrofit of widened Bridge 53-62 from Sepulveda Blvd from 33rd Street to south of Rosecrans Ave	9,100	9,100						
	Manhattan Beach	MR312.32	Aviation Blvd at Marine Ave Intersection Improvements (Southbound left turn lanes)	0		0					
	Manhattan Beach	MR312.34	Aviation Blvd at Artesia Blvd Intersection Improvements (Southbound right turn lane)	1,500		1,500					
	Manhattan Beach	MR312.35	Sepulveda Blvd at Manhattan Beach Blvd Intersection Improvements (NB, WB, EB left turn lanes and SB right turn lane)	980		980					
			TOTAL MANHATTAN BEACH	11,945	9,465	2,480	0	0	0	0	0

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(Change Add) (Delete)	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
	Metro	MR312.30	Feasibility Study for I-405 from I-110 to I-105 and I-105 from I-405 to I-110	0	0						
	Metro	PS4010-2540	South Bay Arterial Baseline Conditions Analysis	250	250						
A	Metro	TBD	Inglewood Transit Center at Florence/La Brea	1,500		260	1,240				
			TOTAL METRO	1,750	250	0	0	0	0	0	0
	Redondo Beach	MR312.06	Pacific Coast Highway improvements from Anita Street to Palos Verdes Blvd	1,400	1,400						
	Redondo Beach	MR312.07	Pacific Coast Highway at Torrance Blvd intersection improvements (Northbound right turn lane)	586	586						
	Redondo Beach	MR312.08	Pacific Coast Highway at Palos Verdes Blvd intersection improvements (WB right turn lane)	320	320						
	Redondo Beach	MR312.13	Aviation Blvd at Artesia Blvd intersection improvements (COMPLETED) (Eastbound right turn lane)	22	22						
	Redondo Beach	MR312.14	Inglewood Ave at Manhattan Beach Blvd intersection improvements (Eastbound right turn lane) (COMPLETED)	30	30						
	Redondo Beach	MR312.20	Aviation Blvd at Artesia Blvd intersection improvements (Northbound right turn lane)	847	847						
	Redondo Beach	MR312.42	Inglewood Ave at Manhattan Beach Blvd intersection improvements (Southbound right turn lane)	5,175	310	4,865					
			TOTAL REDONDO BEACH	8,380	3,515	4,865	0	0	0	0	0
	Torrance	MR312.09	Pacific Coast Highway Improvements from Palos Verdes Blvd to Crenshaw Blvd	0							
	Torrance	MR312.10	Pacific Coast Highway at Hawthorne Blvd intersection improvements	19,600	19,600						
	Torrance	MR312.18	Maple Ave at Sepulveda Blvd Intersection Improvements (COMPLETED) (Southbound right turn lane)	600	600						
	Torrance	MR312.23	Torrance Transit Park and Ride Regional Terminal Project 465 Crenshaw Blvd	18,100	18,100						
	Torrance	MR312.26	I-405 at 182nd St. / Crenshaw Blvd Operational Improvements	15,300	5,300	5,000	5,000				
	Torrance	MR312.40	Pacific Coast Highway at Vista Montana/Anza Ave Intersection Improvements	2,900	2,900						
	Torrance	MR312.58	Pacific Coast Highway from Calle Mayor to Janet Lane Safety Improvements	852	852						
	Torrance	MR312.59	Pacific Coast Highway at Madison Ave Signal upgrades to provide left-turn phasing	500	100	400					
	Torrance	MR312.60	Crenshaw from Del Amo to Dominguez - 3 SB turn lanes at Del Amo Blvd, 208th St., Transit Center Entrance, Signal Improvements at 2 new signal at Transit Center	3,300	1,800	1,500					
	Torrance	TBD	Western Ave at Sepulveda Blvd Intersection Improvements (Call Match)	3,500							3,500
	Torrance	TBD	Hawthorne Blvd Corridor Intersection Improvements (Lomita Blvd, Emerald, Spencer, and 182nd St) (Call Match)	740							740
			TOTAL TORRANCE	65,392	49,252	1,900	5,000	5,000	0	0	4,240
			TOTAL SOUTH BAY	258,121	130,264	25,788	22,934	35,763	20,675	12,537	8,660

Second 5 Year Allocation

SR-138 Capacity Enhancements

5 Year Allocation

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I-605/SR-91/I-405 Corridors "Hot Spots"												
Measure R Highway Operational Improvements Project List												
(Programmed Dollars in Thousands)												
Change ID/Date	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years							2020-2021
					2015-2016	2016-2017	2017-2018	2018-2019	2019-2020			
INTERSTATE 605/STATE ROUTE 91/INTERSTATE 405 CORRIDOR "HOT SPOTS"												
10 Year Forecasted Funds in Long Range Plan (Cumulative)												
	GCCOG	MOU 306.03	GCCOG Engineering Support Services	110,159	48,756	33,350	11,546	5,100	7,698	0	3,710	
	GCCOG	TBD	Gateway Cities Third Party Support	164,800								
				300	200	100						
				100	100							
				400	300	100						
				200	100	100						
				0								
				0								
				680	680							
				0								
				0								
				0								
				573	473	100						
				0								
				0								
				0								
				561	561							
				100	100							
				100	100							
				6,170	6,170							
				3,121	3,121							
				3,040	3,040							
				2,000	2,000							
				9,339	9,339							
				20,698	3,000	5,000	5,000	7,698				
				1,000	1,000							
				2,340	1,590	750						
				300	200	100						
				51,312	24,683	7,090	6,841	5,000	7,698	0	0	
				260	260							
				150	150							
				100	100							
				60	60							
				234		159	75					
				804	570	159	75	0	0	0	0	

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(Change (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Previous Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
	LA County	MR315.07	Painter - Mulberry Intersection Improvements	2,410	585	175	1,650				
	LA County	MR315.11	Valley View - Imperial Intersection Improvements	1,640	475	1,165					
	LA County	MR315.15	Norwalk-Whittier Intersection Improvements	2,830	750	300	1,780				
	LA County	MR315.23	Carmenita - Telegraph Intersection Improvements	800	325	475					
	LA County	MR315.22	Norwalk-Washington Intersection Improvements	550	250	300					
	LA County	TBD	South Whittier Bikeway Access Improvements (Call Match)	800							800
	LA County	TBD	Whittier Blvd - Indiana St to Paramount Blvd (Call Match)	700							700
			TOTAL LA COUNTY	9,730	2,385	2,415	3,430	0	0	0	1,500
	Downey	MR315.03	Lakewood - Telegraph Intersection Improvements	2,120	2,120						
	Downey	MR315.14	Lakewood - Imperial Intersection Improvements	2,760	2,760						
	Downey	MR315.27	Lakewood - Florence Intersection Improvements	1,310	1,310						
	Downey	MR315.18	Bellflower - Imperial Highway Intersection Improvements	1,900	1,900						
			TOTAL DOWNEY	8,090	8,090	0	0	0	0	0	0
	Lakewood	TBD	Lakewood Blvd Regional Capacity Enhancement	3,600	1,000	2,600					
	Lakewood	MR315.04	Lakewood - Del Arno Intersection Improvements	3,320	3,320						
			TOTAL LAKEWOOD	6,920	4,320	2,600	0	0	0	0	0
	Long Beach	TBD	2015 CFP - Artesia Complete Blvd (Call Match)	900							
	Long Beach	TBD	2015 CFP - Atherton Bridge & Campus Connection (Call Match)	800							
	Long Beach	TBD	Park or Ride (Call Match)	150							
A	Long Beach	TBD	Soundwall on I-605 near Spring Street, PAED and PSE	250		50	100	100			
C	Long Beach	TBD	Lakewood - Spring Intersection Improvements, PSE and Construction	454		454					
C	Long Beach	TBD	Bellflower - Spring Intersection Improvements, PSE and Construction	493		493					
			TOTAL LONG BEACH	3,047	0	997	100	100	0	0	1,850
	Norwalk	MR315.06	Studebaker - Rosecrans Intersection Improvements	1,670	1,670						
	Norwalk	MR31.10	Bloomfield - Imperial Intersection Improvements	920	920						
	Norwalk	MR315.17	Pioneer - Imperial Intersection Improvements	1,509	308	1,201					
	Norwalk	MR315.26	Studebaker - Alondra Intersection Improvements	480	100	380					
			TOTAL NORWALK	4,579	2,998	1,581	0	0	0	0	0
	Pico Rivera	MR315.05	Rosemead - Beverly Intersection Improvements	4,040	3,000	1,040					
	Pico Rivera	MR315.09	Rosemead - Whittier Intersection Improvements	600	600						
	Pico Rivera	MR315.21	Rosemead - Washington Intersection Improvements	40	40						
	Pico Rivera	MR315.19	Rosemead - Slauson Intersection Improvements	1,770	1,770						
			TOTAL PICO RIVERA	6,450	5,410	1,040	0	0	0	0	0
C	Bellflower	MR315.16	Bellflower Blvd - Artesia Blvd Intersection Improvement Project	7,310		6,210	1,100				
C	Bellflower	TBD	Lakewood - Alondra Intersection Improvements: Construction	644		644					
			TOTAL BELFLOWER	7,954	0	6,854	1,100	0	0	0	0
			TOTAL ARTESIA	360	0	0	0	0	0	0	360
C	Cerritos	TBD	Carmenita - South Intersection Improvements, Construction	292		292					
C	Cerritos	TBD	Bloomfield - Artesia Intersection Improvements, ROW & Construction	1,756		1,756					
			TOTAL CERRITOS	2,048	0	2,048	0	0	0	0	0
C	Santa Fe Springs	TBD	Valley View - Rosecrans Intersection Improvements, Construction	524		524					
C	Santa Fe Springs	TBD	Valley View - Alondra Intersection Improvements, ROW & Construction	2,967		2,967					
C	Whittier	TBD	TOTAL SANTA FE SPRINGS	3,491	0	3,491	0	0	0	0	0
C	Whittier	TBD	Santa Fe Springs Whittier Intersection Improvements: PSE, ROW, Construction	1,568		1,568					
C	Whittier	TBD	Painter Ave - Whittier Intersection Improvements: PSE, ROW, Construction	1,760		1,760					
C	Whittier	TBD	Colima Ave - Whittier Intersection Improvements: PSE, ROW, Construction	1,646		1,646					
			TOTAL WHITTIER	4,974	0	4,974	0	0	0	0	0
			TOTAL I-605/SR-91/I-405 CORRIDORS "HOT SPOTS"	110,159	48,756	33,350	11,546	5,100	7,698	0	3,710

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I-710 South and/or Early Action Project List											
Measure R Highway Operational Improvements Project List											
(Programmed Dollars in Thousands)											
(Change (A)dd (D)elete	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation	Prior Years	2015-2016 2016-2017 2017-2018 2018-2019 2019-2020 2020-2021					
						2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
			INTERSTATE 710 SOUTH EARLY ACTION PROJECT	120,906	67,095	30,672	20,050	0	0	0	3,073
			10 Year Forecasted Funds in Long Range Plan (Cumulative)	101,900							
			GCCOG Engineering Support Services	1,600	1,300	300					
			TOTAL GCCOG	1,700	1,300	300	100				
			Program/Project Management Support of Measure R Funds	200	100	100					
			PS4720-3334		600						
			PS 4010-2540								
			02-17								
			various								
			Professional Services contracts for I-710 Utility Studies (North, Central, South)	22,237	14,497	1,740	6,000				
			Professional Services contract for I-710 Corridor Project EIR/EIS	23,750	15,442	3,308	5,000				
			Professional Services contract for I-710 Soundwall Project Development	10,878	6,424	2,254	2,200				
			Professional Services contract for development of zero emission technology report	150	150						
			TOTAL METRO	57,815	37,213	7,402	13,200				
			Third Party Support Services for I-710 Corridor Project (US Army Corp of Eng)	100	100						
			TOTAL USACE	100	100						
			Third Party Support Services for I-710 Corridor Project (So Cal Edison)	1,623	1,023	200	400				
			TOTAL SCE	1,623	1,023	200	400				
			Reconfiguration of Firestone Blvd On-Ramp to I-710 S/B Freeway	1,450	250	1,200					
C			Third Party Support for I-710 Corridor Project EIR/EIS Enhanced IQA	3,500	600	1,900	1,000				
			I-710 Early Action Project - Soundwall PA/ED Phase - Noise Study Only	100	100						
D			Third Party Support for I-710 Early Action Project - Soundwall PS&E Phase	0							
			TOTAL CALTRANS	5,050	950	3,100	1,000				
			Whittier Blvd (Indiana to Paramount) Corridor Project (Call Match)	700							700
			Staff Support for the Review of the Draft I-710 South EIR/EIS	98	98						
			TOTAL LA COUNTY	798	98						700

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[illegible]