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



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

- 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

<u>ISSUE</u>

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:

<u>City of Glendale</u>

- 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

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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.

<u>Measure R NEXUS to Highway Operational Definition:</u> 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:

<u>Metro</u>

• 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.

<u>Measure R NEXUS to Highway Operational Definition:</u> 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

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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:

<u>Metro</u>

- 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 contact. 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.

<u>Caltrans</u>

 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.

<u>Measure R NEXUS to Highway Operational Definition:</u> 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:

<u>Caltrans</u>

- 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

- Prepared by: Isidro Panuco, Transportation Planning Manager, (213) 922-7984 Abdollah Ansari, Deputy Executive Officer, (213) 922-4781 Aziz Elattar, Executive Officer, (213) 922-4715
- Reviewed by: Richard Clarke, Executive Director, Program Management (213) 922-7557

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Phillip A. Washington Chief Executive Officer

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Genetie ME310.16 Sentemedi/Cerrendise A/ Sente Rull Costing Imp (Completed) 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850 1.850	L	Glendale	MR310.01		1658.7	1.658.7					
Genetie WR310.13 Genetiae WR310.14 Genetiae WR310.15 Genetiae WR3	,	Glendale	MR310.04		1.850	1.850					
measure NW320.16 Sx-34 / Glendie Ave. Interchange Modification 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400 1,400	U	Glendale	MR310.13		876.5	876.5					
WR310.14 Verduge Road Signal Ugerated (Completed) 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 557 <td></td> <td>Glendale</td> <td>MR310.16</td> <td></td> <td>1.400</td> <td>1.400</td> <td></td> <td></td> <td></td> <td></td> <td></td>		Glendale	MR310.16		1.400	1.400					
MR31013 Traffic Signal Sync Bran d/ Colorado San Fernando / Glendale-Verdugo 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,250 1,2		Glendale	MR310.14	Verdugo Road Signal Upgrades (Completed)	557	557					
MR310.2 Completedy (mempleted) 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200 1.200		Glendale	MR310.19			1 200					
				(completed)	1,25U	1,250					
Imistance Mistance		Glendale	MR310.20		400	400					
		Glendale	MR310.05		3,250	3,250					
		Glendale	MR310.18		2,700	2,700					
MR310.37 Verduge Boulevard Remabilitation (Verduge Roundary) 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000		Glendale	MR310.21	· · · · · ·	350	350					
		Glendale	MR310 37		1.000		1.000				
		Glendale	MR310.36	Signalizations of SR-2 Fwv Ramps @ Hollv	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		
MR310.30 North Brand Boulevard Rehabilitation (Freeway 134 to Nountain Street) 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000		Glendale	MR310.35	Signal Installations at Various Locations	1,500 .	750	750				
		Glendale	MR310.30	North Brand Boulevard Rehabilitation (Freeway 134 to Mountain Street)	1,000				1,000		
		Glendale	MR310.32		100				100		
$ \begin{array}{ $		Glendale	MR310.34		315				315		
		Glendale	MR310.40		3,315	3,315					
MR310.42 Arden Ave. (From Highland Ave. to Kenilworth St.) 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 900 585 900 585 900 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 <t< td=""><td></td><td>Glendale</td><td>MR310.41</td><td></td><td>1,200</td><td></td><td>1,200</td><td></td><td></td><td></td><td></td></t<>		Glendale	MR310.41		1,200		1,200				
MR310.43 Verdugo Rd. Street improvements Project (Traffic Signal Modification) S85 F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F		Glendale	MR310.42	Arden Ave. (From Highland Ave. to Kenilworth St.)	900	006					
TBD Verdugo Wash: Cycle Track: Feasibility Study 408 50 500 58 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Glendale	MR310.43		585		585				
TBS Ocean Blvd. Project from Verdugo Rd. to N'ly City Boundaries 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600		Glendale	TBD	Verdugo Wash: Cycle Track: Feasibility Study	408	50	300	58			
TBD TOTAL GLENDALE 33,608 20,300 5,035 2,158 5,065 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 1,050 600 600 600 600 600 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Glendale	TBS	Ocean Blvd. Project from Verdugo Rd. to N'ly City Boundaries	1,000		1,000				
MR310.03 Soundwalls on Interstate 210 (Completed) 4,588 4,588 4,588 6.0 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 6		1		TOTAL GLENDALE	33,608	20,300	5,035	2,158	5,065	1,050	•
TBD Soundwalls on Interstate 210 in La Canada-Flintridge (phase 2) 1,800 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600		La Canada Flintridge	MR310.03		4,588	4,588					
TOTAL LA CANADA FLINTRIDGE 6,338 4,588 600 600 600 0 0 0 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 <td></td> <td>La Canada Flintridoe</td> <td>TBD</td> <td>Soundwalls on Interstate 210 in La Canada-Flintridge (phase 2)</td> <td>1,800</td> <td></td> <td>600</td> <td>600</td> <td>600</td> <td></td> <td></td>		La Canada Flintridoe	TBD	Soundwalls on Interstate 210 in La Canada-Flintridge (phase 2)	1,800		600	600	600		
MR310.44 Soudwalls on interstate 210 in LA Crescenta-Montrose 3,344 400 600 0 2,344 0 TOTAL LA COUNTY 3,344 400 600 0 2,344 0 TOTAL LA COUNTY 3,344 400 600 0 2,344 0 TOTAL LA COUNTY 3,344 400 600 0 2,344 0		-		TOTAL LA CANADA FLINTRIDGE	6,388	4,588	600	600	600	0	•
3,344 400 600 0 2,344 0 61,304 34,788 6,735 2,758 8,009 9,014		LA County		Soudwalls on Interstate 210 in LA Crescenta-Mor	3,344	400	600		2,344		
61,304 34,788 6,735 2,758 8,009 9,014					3,344	400	600	•	2,344	0	0
				TOTAL ARROYO VERDUGO	61,304	34,788		2,758	8,009	9,014	•

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			Las Virgenes/Malibu Operational Improvements	vements						
		Measure R H Proposed Pro	Measure R Highway Operational Improvements Project List Proposed Project List and Eleven-Year Allocation (Fiscal Years subject to MTA priority setting & budget process)	dget process)		(Programmed Dollars in Thousands)	Dollars in Th	iousands)		
(C)hange (A)dd	Lead Agency	Funding Agreement (FA) No.	Project/Location	Total Allocation (10 yr)	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
		Las Virgenes/	Las Virgenes/Malibu Operational Improvements	121,351	77,370	31,431	6,150	6,400		
				125,121						
υ	Westlake Village	MR311.01		343.745	343.745					
υ	Westlake Village	MR311.02	Highway 101 Park and Ride Lot (Design)	243.650	243.650					
	Westlake Village	MR311.10	Rte 101/ Lindero Cyn. Rd. Interchange Improvements, Phase 3B,4B Construction	3,661	3,591.000	70				
	Westlake Village	MR311.18	Rte 101/ Lindero Cyn. Rd. Interchange Improvements, Phase 3A Construction	8,969	8,969.000					
υ	Westlake Village	MR311.19	Highway 101 Park and Ride Lot (Construction)	4,983.605	4,558.250	425.355				
			TOTAL WESTLAKE VILLAGE	18,201.000	17,705.65	495	0	0	0	0
	Agoura Hills	MR311.03	Palo Comando interchange	7,350	5,600	1,750				
υ	Agoura Hills	MR311.04	Aguora Road/Kanan Road Intersection Improvements	1,000	1,000					
	Agoura Hills	MR311.05	Agoura Road Widening	32,000	20,250	11,750				
υ	Agoura Hills	MR311.14	Kanan Road Overpass Expansion PSR, PR, PS&E	250	250					
			TOTAL AGOURA HILLS	40,600	27,100	13,500	0	0	0	0
	Calabasas	MR311.06	Lost Hills Overpass and Interchange	26,000	21,000	5,000				
υ	Calabasas	MR311.07	Mulholland Highway Scenic Corridor Completion	4,389.8	2,250	2,139.8				
υ	Calabasas	MR311.08	Las Virgenes Scenic Corridor Widening	5,746.2	2,350	3,396.2				
υ	Calabasas	MR311.09	Parkway Calabasas/US 101 SB Offramp	214	214					
	Calabasas	MR311.20	Off-Ramp for US 101 at Las Virgenes Road	500	500					
	Calabasas	MR311.33	Park and Ride Lot on or about 23577 Calabasas Road (near Route 101)	3,700	3,200	500				
			TOTAL CALABASAS	40,550	29,514	11,036	0	0	0	0
υ	Malibu	MR311.24	Malibu/Civic Center Way Widening	3,000	150	2,100	750			
	Malibu	MR311.26	PCH-Raised Median and Channelization from Webb Way to Corral Canyon Road	6,950	550	2,500	006	3,000		
υ	Malibu	MR311.27	PCH Intersections Improvements	1,000	0		1,000			
	Malibu	MR311.28	Kanan Dume Road Arrestor Bed Improvements and Intersection with PCH (Constuction)	006	006					
U	Malibu	MR311.29	PCH Regional Traffic Message System (CMS)	500	0	500				
	Malibu	MR311.30	PCH Roadway and Bike Route Improvements fr. Busch Dr. to Western City Limits	500	500					
٥	Malibu	MR311.31	PCH Roadway and Bike Route Improvements fr. Busch Dr. to Eastern City Limits	0	0					
	Malibu	MR311.32	PCH and Big Rock Dr. Intersection and at La Costa Area Pedestrian Improvements	950	950					
	Malibu	MR311.35	Pacific Coast Highway Shoulder Improvements (Various Locations)	3,500	0	500	1,500	1,500		
A	Malibu	TBD	P.C.H. Signal System Inprovements from John Tyler Drive to Topanga Canyon Blvd	3,700	0	300	1,500	1,900		
		-	TOTAL MALIBU	21,000	3,050	5,900	5,650	6,400	0	٥
υ	Hidden Hills	MR311.34	Long Valley Road/Valley Circle/US-101 On-Ramp Improvements	1,000	0	500	500			
			TOTAL HIDDEN HILLS	1,000	0	500	500	0	•	0
			TOTAL LAS VIRGENES/MALIBU	121,351	77,370	31,431	6,150	6,400	0	0
						5	5 Year Allocation	u		

			INTERSTATE 405, I-110, I-105, and SR-91 RAMP and INTERCHANGE IMPROVEMENTS (SOUTH BAY)	HANGE IMPROVE	MENTS (SO	ИТН ВАҮ)					
		Measure R Hig Proposed Proje	Measure R Highway Operational Improvements Project List Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority settings & budget processes)	idget processes)		(Pro£	(Programmed Dollars in Thousands)	llars in Thou	isands)		
(C)hange (A)dd (Y)oloto	Lead Agency	Funding Agreement (FA)	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
INTERSTAT	E 405, I-110, I-1	05, and SR-91	INTERSTATE 405, I-110, I-105, and SR-91 RAMP and INTERCHANGE IMPROVEMENTS (SOUTH BAY)	258,121	130,264	25,788	22,934	35,763	20,675	12,537	8,660
			10 Year Forecasted Funds In Long Range Plan (Cumulative)	237,000							
	SBHP		Early Action Contingency	3,500	3,500	0000	000 0	000 0	000 c	000 0	
	SBHP		Program Contingency	12,000	2,000	2,000	2,000	2,000	2,000	2,000	
	SBHP					000 0	000 0	000 0	000 c	000 0	-
			TOTAL SBHP	15,500	5,500	2,000	2,000	2,000	2,000	2,000	-
	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	200						
	1		TOTAL SBCCOG	5 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	l-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	000'6	9,000						
	Caltrans	MR312.45	PAED Integrated Corridor Management System (ICMS) on I-110 from Artesia Bivd and I-405	1,000					1,000		
			TOTAL CALTRANS	s 55,000	17,150	2,300	7,900	11,800	11,650	4,200	0
	Carson	MR312.37	MR312.37 Sepulveda Blvd widening from Alameda Street to ICTF Driveway		1,158						
			TOTAL CARSON	v 1,158	1,158	0	0	0	0	0	0
	El Segundo	MR312.22	Maple Ave Improvements from Sepulveda Blvd to Parkview Ave. (COMPLETED)	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			c	4	c	c
			TOTAL EL SEGUNDO		3,250	5	5	5	-	5	-
	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	QBT	Redondo Beach Blvd Arterial Improvements from Crenshaw Blvd to Vermont Ave (Call Match)	720							720
	Gardena	TBD	Crenshaw Bivd Arterial Improvements from Redondo Beach Blvd to El Segundo Blvd (Call Match)	380							380
	Gardena	TBD	Artesia Blvd Arterial Improvements from Western Ave to Vermont Ave (Call Match)	620							620
	Gardena	TBD	Normandie Ave Arterial Improvements from El Segundo Blvd to 177th Street (Call Match)	1,200							1,200
	Gardena	TBD	Traffic Signal Reconstrction on Vermont at Redondo Beach Bivd and at Rosecrans Ave. (Call Match)	360							360
	Gardena	TBD	Park and Ride Lots at Southwest corners of El Segundo Blvd at Vermont Ave and at Western ave (Call Match)	d 1,140							1,140
			TOTAL GARDENA	A 12,585	8,165	0	0	0	0	0	4,420

(C)hange (A)dd	Lead Agency	Funding Agreement (FA)	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
(D)elete		No.		,							
	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 HAWTHRONE	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
	Ingłewood	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						
	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		n Ave to Vermont Ave		1,900	5,000	5,000	5,000	5,000	4,920	
	LA County	MR312.52	ITS: Improvements on South Bay Arterials					401	620		
			TOTALLA COUNTY	27,841	1,900	5,000	5,000	5,401	5,620	4,920	•
	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. frm Rosecrans Ave to Manchester Beach Blvd	47		12		35			
	Lawndale	TBD	Citywide Mobility			350					
			TOTAL LAWNDALE	3,997	2,000	362	0	835	0	800	0
	Lomita	MR312.43	Intersection Improvements at Western/Palos Verdes Dr and PCH/Walnut	006	006						
			TOTAL LOMITA	006	006	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, FB left turn lanes and SB right turn lane)	086		980					
			TOTAL MANHATTAN BEACH	11.945	9,465	2,480	0	0	0	0	0

2,480

TOTAL MANHATTAN BEACH 11,945 9,465

(C)hange (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
	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	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		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
					S	econd 5 Yea	Second 5 Year Allocation				

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	2019-2020	45,200			0		11,900	6,700	3,800		22,400		11,600			11,200	22,800	45,200	
	2018-2019 20	22,400			0					15,600	15,600		6,800				6,800	22,400	
[housands)	2017-2018	23,100		3,000	3,000				900		906			4,100	9,600	5,500	19,200	23,100	c.
d Dollars in	2016-2017	36,400		4,000	4,000	10,000		1,000	100	500	11,600		2,500	7,000	8,800	2,500	20,800	36,400	5 Year Allocation
(Programmed Dollars in Thousands)	2015-2016	30,200		5,000	5,000		2,300	2,000	200	2,800	7,300	10,500	2,500	1,500	3,000	400	17,900	30,200	5 1
	Prior Years	42,700		13,000	13,000	5,000	800	300		1,100	7,200	14,500	1,600	2,400	3,600	400	22,500	42,700	
cements certing & budget proces	Total Allocation	200,000	200,000	25,000	25,000	15,000	15,000	10,000	5,000	20,000	65,000	25,000	25,000	15,000	25,000	20,000	110,000	200,000	
SR-138 Capacity Enhancements Measure R Highway Operational Improvements Project List Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority setting & budget process)	Funding (C)hange Lead Agency Agreement (A)dd (FA) No.	SR-138 Capacity Enhancements	10 Year Forecasted Funds In Long Range Plan (cumulative)	Metro MR330.01 SR-138 (AvenueD) PA/ED (I-5 to SR-14)	TOTAL METRO	Lancaster MR330.02 SR-138 (SR-14) Avenue K Interchange	Lancaster MR330.03 SR-138 (SR-14) Avenue G Interchange	Lancaster MR330.04 SR-138 (SR-14) Avenue J Interchange	Lancaster MR330.05 SR-138 (SR-14) Avenue L Interchange	Lancaster MR330.06 SR-138 (SR-14) Avenue M Interchange	TOTAL LANCASTER	Paimdale MR330.07 SR-138 Paimdale Blvd. (SR-138) 5th to 10th St. East	Paimdale MR330.08 SR-138 Palmdale Blvd. SB 14 Ramps	Palmdale MR330.09 SR-138 10th St. West Interchange	Palmdale MR330.10 SR-138 (SR-14) Widening Rancho Vista Blvd. to Palmdale Blvd	Palmdale MR330.11 SR-138 Avenue N Overcrossing	TOTAL PALMDALE	TOTAL SR-138 CAPACITY ENHANCEMENTS	

		Measure R Highwa	Measure R Highway Operational Improvements Project List Derversed Periaert list and Ten-Vaer Allectrion (Fiscal Yaars subject to MTA miority settings & budget processes)			(Programme	(Programmed Dollars in Thousands)	ousands)			
(C)hange (A)dd	Lead Agency	Funding Agreement	Project/Location	Total Allocation	Prior Years	2015-2016	2016-2017 2	2017-2018 201	2018-2019 20	2019-2020	2020-2021
(D)elete	TE GOG/STATE BI	OLITE 91 /INTERSTAT	(Dielete	110.159	48.756	33,350	11.546	5,100 7,	7,698	0	3,710
			10 Year Forecasted Funds In Long Range Plan (Cumulative)	164,800					┢		
	GCCOG	MOU.306.03	GCCOG Engineering Support Services	300	200	100					
	GCCOG		Gateway Cities Third Party Support	100	100						
			TOTAL GCCOG	400	300	100					
	Metro	PS4720-3334	Program/Project Management Support of Measure R Funds	200	100	100					
D	Metro	PS4720-3252	Santa Fe Springs Whittier Intersection Improvements	0							
٥	Metro	PS4720-3252	Painter Ave - Whittier Intersection Improvements	0							
۵	Metro	PS4720-3252	Colima Ave - Whittier Intersection Improvements	0							
υ	Metro	PS4720-3252	I-605 Arterial Hot Spots in the City of Whittier: PAED for Santa Fe Springs/Whittier, Painter/Whittier. & Colima Whittier Intersection Improvements	680	680						
	Metro	PS4720-3250	Lakewood - Alondra Intersection Improvements	0							
٥	Metro	PS4720-3250	Lakewood - Spring Intersction Improvements	0							
٥	Metro	PS4720-3250	Bellflower - Spring Intersection Improvements	0							
	Metro	PS4720-3250	Arterial Hot Spots in the Cities of Long Beach, Beliflower, and Paramount: PAED for Lakewood/Alondra, Lakewood/Spring, and Beliflower Spring Intersection & PS&E for	573	473	100					
υ I			Lakewood/Alondra Intersection Improvements Improvements								
	Metro	PS4720-3251	Valley View - Rosecrans Intersection Improvements	•				╉	╉	+	
<u> </u>	Metro	PS4720-3251	Valley View - Alondra Intersection Improvements					╉			
<u> </u>	Motro	P54/20-3251	Larmenta - south Intersection Improvements Discomfadd - Attacia Intersection Improvements				T			+	
ι U	Metro	PS4720-3251	Arterial Hot Shots in the Cities of Cerritos, La Mirada, and Santa Fe Springs: PAED for Valley View/Roscenars, Valley View/Alondra, Carmenita/South, and Bloomfield/Artesia Intersection	561	561						
υ	Metro	TBD	Interial Hot Spots in the Cities of Cerritos: PS&E for Carmenita/South and Bloomfield/Artesia	100		100					
U	Metro	TBD	Arterial Hot Spots in the Crists of La Mirada and Santa Fe Springs: PS&E for Valley View Reservance and Valley View/Alchorida Intersection Immovements	100		100					
T	Metro	PS4603-2582	Professional Services for 1-605 Feasibility Study (Completed)	6,170	6,170						
T	Metro	PS4603-2582		3,121	3,121						
	Metro	PS4720-3235	Professional Services for 605/60 PSR/PDS	3,040	3,040						
	Metro	TBD		2,000		2,000			╉		
ľ	Metro	PS47203004	Professional Services	10,430	9,339	000 0	1,091	+	1 100		
υ	Metro	AE3334100113/5	Professional Services for the I-605/I-5 PA/EU Derfessional Cervices for the I-605/I-01 DA/ED	1 000	1.000	3,000	nnn'c) 000/c	,038		
υ	Metro	AE322940011372	Professional Services	2,340		1,590	750				
	Metro	MR315.28	Third Party Support fo (Gateway Cities, SCE,	300	200	100					
			TOTAL METRO	51,312	24,683	2,090	6,841	5,000 7	7,698	0	0
	Caltrans	TBD	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, SR60/I-605 PSR-PDS	260	260						
	Caltrans		Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I- 605/I-5 PA/ED	150	150						
	Caltrans		Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I- 605/SR-91 PA/ED	100	100						
	Caltrans	TBD	Third Party Support for the I-605 Corridor "Hot Spots" Interchanges Program Development, I- 605 Intersection Improvements	60	60						
J	Caltrans	TBD	5 Corridor "Hot Spots" Interchanges Progra	234		159	75				
			TOTAL CALTRANS	804	570	159	75	0	0	0	0

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LA County LA County LA County LA County LA County										
LA County LA County LA County LA County	MR315.07	Painter - Mulberry Intersection Improvements	2,410	585	175	1,650				
LA County LA County LA County LA County	MR315.11	Valley View - Imperial Intersection Improvements	1,640	475	1,165					
LA County LA County LA County	MR315.15	Norwalk-Whittier Intersection Improvements	2,830	750	300	1,780				
LA County LA County	MR315.23	Carmenita - Telegraph Intersection Improvements	800	325	475				_	
LA County	MR315.22	Norwalk-Washington Intersection Improvements	550	250	300					
	TBD	South Whittier Bikeway Access Improvements (Call Match)	800							800
LA County	TBD	Whittier Blvd - Indiana St to Paramount Blvd (Call Match)	200							700
		TOTALLA 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	MR31518	Bellflower - Imperial Highwav Intersection Improvements	1,900	1,900						
12.002		TOTAL DOWNEY	8,090	8,090	0	0	0	0	0	0
1 abawood	TRD	I akewood Rivd Regional Canacity Enhancement	3,600	1,000	2,600					
1 skewood	MB315 04	Lanewood und Augustal opposite Limitations	3,320	3.320						
Turken and		TOTALLAKEWOOD	6,920	4,320	2,600	•	0	0	0	0
I one Reach	TRD	2015 CFP - Artesia Comulete Rivd (Call Match)	006							006
I one Beach	TBD	2015 CFP - Atherton Bridge & Campus Connection (Call Match)	800							800
Lone Beach	TBD	Park or Ride (Call Match)	150							150
A Long Beach	TBD	Soundwall on I-605 near Spring Street, PAED and PSE	250		50	100	100			
\vdash	TBD	Lakewood - Spring Intersction Improvements, PSE and Construction	454		454					
┝	TBD		493		493					
			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					
			4,579	2,998	1,581	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	9						
Pico Rivera	MR315.19	Rosemead - Slauson Intersection Improvements	1,//U	T,//U	1 040	6	-	-		c
-			6,450	2,41U	1,04U	- ⁻	5	>	-	
C Beilflower	9T'CTEXIM	belinower biva- Artesia biva intersection improvement Project	DTC'/		01240	007 ⁴ T				
		Lakewood - Alondra Intersection Intiproverifents: Consultation That RFILFLOWFR	7.954	c	6.854	1.100	0	0	0	0
Artesia	TBD	2015 CFP- Norwalk Blvd Bicvcle and Pedestrian Improvement Project (Call Match)	360							360
		TOTAL ARTESIA	360	•	0	0	0	0	0	360
C Cerritos	TBD	tersection 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
C Santa Fe Springs	TBD	Valley View - Rosecrans Intersection Improvements, Construction	524		524					
C Santa Fe Springs	180	Valley View - Alondra Intersection Improvements, ROW & Construction	2.967		2,967					
		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
		TOTAL I-605/SR-91/I-405 CORRIDORS "HOT SPOTS"	110,159	48,756	33,350	0 11,546	5,100	7,698	-	3,710

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	Measure Proposed	: R Highw. J Project	Measure R Highway Operational Improvements Project List Proposed Proiect List and Ten-Year Program (Fiscal Years subject to MTA priority settings & budget processes)	budget proces		rogramme	id Dollars ir	(Programmed Dollars in Thousands)		
(A)dd Agency (D)elete Agency		ng ıt (FA)	Project/Location	Total Allocation	Prior Years	2015-2016	2015-2016 2016-2017	2017-2018 2018-2019 2019-2020	19 2019-2020	2020-2021
			INTERSTATE 710 SOUTH EARLY ACTION PROJECT	120,906	67,095	30,672	20,050	0	0	3,073
		10		101,900						
BCCOG	COG MOU.306.03		GCCOG Engineering Support Services	1,600	1,300	300				
-	1		TOTAL GCCOG	1,700	1,300	300	100			
Me	Metro PS4720-3	3334 Pro	PS4720-3334 Program/Project Management Support of Measure R Funds	200	100	100				
Me	Metro PS-4010-2540- 02-17		I-710/I-5 Interchange Project Development	600	600					
Me	Metro various		Professional Services contracts for I-710 Utility Studies (North, Central, South)	22,237	14,497	1,740	6,000			
Me	Metro PS4340-1	-1939 Pro	PS4340-1939 Professional Services contract for I-710 Corridor Project EIR/EIS	23,750	15,442	3,308	5,000			
Me	Metro PS4710-2	-2744 Pro	PS4710-2744 Professional Services contract for I-710 Soundwall Project Development	10,878	6,424	2,254	2,200			
Me	Metro 2010	listart Pri 0 tec	MOU.Calstart Professional Services contract for development of zero emission 2010 technology report	150	150					
			TOTAL METRO	57,815	37,213	7,402	13,200			
Me	Metro USACE		Third Party Support Services for I-710 Corridor Project (US Army Corp of Eng)	100	100					
			TOTAL USACE	100	100					
Me	Metro MR306.5B		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			
Calti	Caltrans MR306.24		Reconfiguration of Firestone Blvd On-Ramp to I-710 S/B Freeway	1,450	250	1,200				
c Caltr	Caltrans MR306.27		Third Pary Support for I-710 Corridor Project EIR/EIS Enhanced IQA	3,500	600	1,900	1,000			
Calt	Caltrans MR306.29		l-710 Early Action Project - Soundwall PA/ED Phase - Noise Study Only	100	100					
D Caltr	Caltrans MR306.29		Third Party Support for I-710 Early Action Project - Soundwall PS&E Phase	0						
			TOTAL CALTRANS	5,050	950	3,100	1,000			
LA CC	LA County TBD		Whittier Bivd (Indiana to Paramount) Corridor Project (Call Match)	700						700
LA CC	LA County MR306.16		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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(A)dd Agency (D)elete	Agreement (FA) No.	Project/Location		Years	2015-2016	7 /102-9102	2017-2018 2018-2019	0303-CT07 CT03	TZ02-0202 020
Bell	TBD	Eastern at Bandini Rickenbacker Project (Call Match)	155						155
Bell	MR306.07	Staff Support for the Review of the Draft I-710 South EIR/EIS	150	150					
		TOTAL BELL	305	150					155
Bell Gardens	ens MR306.08	Staff Support for the Review of the Draft I-710 South EIR/EIS	154	154					
Bell Gardens	ens TBD	Florence/Jaboneria Intersection Project (Call Match)	258						258
C Bell Gardens	ens MR306.30	Florence Ave/Eastern Ave Intersection Widening	348			17	331		
		TOTAL BELL GARDENS	412	154					258
Commerce	rce MR306.23	Washington Blvd Widening and Reconstruction Project	13,500	3,500	7,000	3,000			
Commerce			75	75					
		TOTAL COMMERCE	13,575	3,575	7,000	3,000			
Compton		MR306.10 Staff Support for the Review of the Draft I-710 South EIR/EIS	35	35					
		TOTAL COMPTON	35	35					
Downey	ey MR306.18	Staff Support for the Review of the Draft I-710 South EIR/EIS	130	130					
Downey	ey MR306.20	Paramount Blvd/Firestone Intersection Improvements	3,390	3,390				_	
Downey		Lakewood Blvd Improvement Project	5,000	1,500	3,500				
		TOTAL DOWNEY	8,520	5,020	3,500				
Huntington Park	ton TBD	Staff Support for the Review of the Draft I-710 South EIR/EIS	15	15					
-		TOTAL HUNTINGTON PARK	15						
Long Beach	ach MR306.19	Shoemaker Bridge Replacement Project	5,500	1,000	3,000	1,500			
Long Beach		Staff Support for the Review of the Draft I-710 South EIR/EIS	200	200					
Long Beach	ach TBD	2015 CFP - Great 7th St - Connectivity (Call Match)	1,200						1,200
Long Beach	ach TBD	2015 CFP - LA River Gap Closures (Call Match)	160						160
Long Beach	ach MR306.22	Atlantic Ave/Willow St Intersection Improvements	300	300					
		TOTAL LONG BEACH	7,360	1,500	3,000	1,500			1,360
Maywood	od MR306.12	Staff Support for the Review of the Draft I-710 South ElF	65	65					
		TOTAL MAYWOOD	65	65					
Paramount	unt MR306.13	Staff Support for the Review of the Draft I-710 South EIR/EIS	130	130					
Paramount	unt MR306.32	Garfield Ave Improvements	2,075	1,625	450				
		TOTAL PARAMOUNT	2,205	1,755	450				
South Gate	ate MR306.14	Staff Support for the Review of the Draft I-710 South EIR/EIS	200	200					
South Gate	ate MR306.17	Atlantic Ave/Firestone Blvd Intersection Improvements	12,400	12,400					
South Gate		South Gate Regional Bikeway Connectivity Program (Call Match)	600						600 600
South Gate	ate MR306.33	Firestone Blvd Regional Corridor Capacity Enhancement Project	6,000	1,500	_				
			19,200	14,100	4,500				600
Vernon	n MR306.15		57	57					
Vernon	n MR306.25	Atlantic Blvd Bridge Widening and Rehabilitation			1,220	850			
		TOTAL VERNON		57	_	850			
		TOTO TOTO A LABOR AND	100 000	67 00E	20.673	20.050	0		3,073

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