



**Metro**

Los Angeles County  
Metropolitan Transportation Authority

One Gateway Plaza  
Los Angeles, CA 90012-2952

213.922.2000  
metro.net

**18**

**REVISED  
PLANNING AND PROGRAMMING COMMITTEE  
JANUARY 16, 2013**

**SUBJECT: MEASURE R HIGHWAY OPERATIONAL IMPROVEMENTS**

**ACTION: APPROVE THE REVISED PROJECT LISTS FOR SUBREGIONAL  
MEASURE R FUNDS**

**RECOMMENDATION**

Approve the proposed updates and new projects listed in Attachment A, for the Measure R Highway Operational Improvement funding for the Arroyo Verdugo and Las Virgenes/Malibu Subregions, and for Interstate 405, I-110, I-105, and SR-91 Ramp and Interchange Improvements (South Bay).

**ISSUE**

The Arroyo Verdugo, Las Virgenes/Malibu, and South Bay Subregions have submitted their proposed updates to the existing approved project lists which include changes related to schedule, scope, funding allocation, and/or addition of new projects. The existing lists of projects have been previously approved for funding from the Measure R Highway Subfunds within its respective subregion.

**DISCUSSION**

The Subregions have submitted for approval their proposed updates to their project lists including changes to scope, schedule, and the allocation of previously approved Measure R funds since the last board update and recertification of funds in March and September 2012. In addition, the Subregions are recommending new projects to be added to the list for Measure R funding. The requested updates to the project list (Attachment A) detailed in Attachment B will be funded through existing funding commitments and the additional projects being requested will be funded by each of the above referenced Measure R highway subfunds.

We have conducted a nexus analysis for each new project added to the list and have determined their eligibility to Measure R Highway Operational Subfunds as reflected in the nexus findings in Attachment B. Specifically, all of the projects provide significant

highway operational benefits in each of the subregions and meet the highway operational improvement and ramp/interchange improvements definition approved by the Board in October 2009 as part of the adoption of Metro's Long Range Transportation Plan.

Arroyo Verdugo Subregion:

The Arroyo Verdugo Subregion is recommending the updated project list totaling \$14.5 million with the associated funding to the Metro Board. This list includes new projects in which Measure R funds would be used as the minimum local match for Metro's 2013 Call for Projects. If any of the candidate projects are unsuccessful in receiving Call funds, the cities will return to the Board and reprogram Measure R funds and /or remove projects to stay within the Measure R funding allotment.

Las Virgenes/Malibu Subregion:

The Las Virgenes/Malibu Subregion is recommending the updated project list with the associated funding to the Metro Board. The Subregion is maintaining the same total programming amount as approved in March 2012. Agoura Hills, Calabasas and Malibu have each deferred projects and removed the funding for the Project from the March 2012 list to add funds to their existing or new projects in the same year the funds were originally programmed. This list includes four new projects for the City of Malibu. In addition, Agoura Hills, Calabasas and Malibu have also requested cost neutral revised project budgets to several of their existing projects to reflect the latest project completion cost estimates or to provide funding to higher priority projects. The City of Calabasas has moved \$1.5 million in a prior year allocation to FY 2013 -14. The City of Malibu has requested adding \$400,000 in funds for FY 2013-14 for two of their ready to go projects and they also moved \$2.75 million in existing funds from FY 2015-16 to FY 2016-17.

The City of Calabasas wants to use some of the programmed Measure R funds for one existing project - #MR311.06, for the minimum local match for Metro's 2013 Call for Projects. If any of the candidate projects are unsuccessful in receiving Call funds, the City will return to the Board and reprogram Measure R funds and /or remove projects to stay within the Measure R funding allotment.

South Bay Subregion:

The SBCCOG Board approved recommending the updated project list with the associated funding to the Metro Board. The proposed updates to the project list do not exceed the \$176.4 million previously programmed for the South Bay Subregion over the initial five-year period of FY 12 through FY 16. The project list also includes new projects **in FY 18 and FY 19 amounting to \$1 million for a Caltrans project** and approximately \$13.4 **\$12.2 million** ~~for FY 18 through FY 19~~ in which Measure R funds would be used as the minimum local match for Metro's 2013 Call for Projects. The new projects identified by the SBCCOG and its member jurisdictions for the 2013 Call for Projects allows the potential to leverage Measure R dollars with other fund sources. If any of the candidate projects are successful in receiving Call funds, only the required

minimum local match amounts in the modal categories for which cities are applying for would be funded with Measure R Highway Subfunds. We will return to the Board after the Call for Projects grant awards are adopted for any reprogramming of Measure R dollars to reflect the Call for Projects funding commitments. The total programming allocation for the South Bay Subregion does not exceed the \$237 million forecasted to be available over the first ten year period of the program from FY 11 to FY 19.

We are recommending that the Board approve the updated project list and the addition of new projects. Included in this recommendation is the approval of programming approximately \$2.1million in Measure R funds from FY 17 – FY 19 to the SBCCOG for program development, oversight, and administration. The existing Cooperative Agreement between us and the SBCCOG to implement the Measure R South Bay Highway Program is consistent with this recommendation. In addition, at its June 2011 meeting, the Board previously approved Program Development & Oversight and Program Administration funds to the SBCCOG, totaling approximately \$2.2 million. These amounts are reflected in Attachment A under Metro’s ID number, MR312.01 for the SBCCOG.

### **DETERMINATION OF SAFETY IMPACT**

The proposed revised approved project lists and funding allocations for the Arroyo Verdugo, Las Virgenes/Malibu, and South Bay Subregions will have no adverse impact on safety.

### **FINANCIAL IMPACT**

#### Arroyo Verdugo Subregion:

The funding of \$5.7 million is available for the Arroyo Verdugo Subregion in the FY 13 budget for Project 460310 (Arroyo Verdugo Highway Operational Improvements).

Due to the change of project list and its shift in funding needed by the Arroyo Verdugo Subregion, the previously programmed funds for the prior years (\$10.4 million) would need to be rolled into FY13 and reprogrammed as: \$24.8 million in FY 13, \$6.4 million in FY 14. The total cumulative programmed total for the first five years is \$31.2 million. Moreover, the additional projects in the second five years is below the cumulative \$25.8M forecasted.

#### Las Virgenes/Malibu Subregion:

There is \$6.2 million available for the Las Virgenes/Malibu Subregion in the FY 13 budget for Project 460311 (Las Virgenes/Malibu Highway Operational Improvements).

#### South Bay Subregion:

The funding of \$17.5 million is available for the South Bay Subregion in the FY13 budget for Project 460312 (South Bay Ramp and Interchange Improvements).

These three programs are all under Cost Center 0442 in Account 54001 (Subsidies to Others). Since this is a multi-year agreement, the cost center manager and the Executive Director Highway Program will be responsible for budgeting the costs in future years.

The cumulative overall programming allocation for all three Subregions do not exceed the cumulative forecasted amount identified in the Long Range Transportation Plan for the first ten years. Since this is a multi-year agreement, the cost center manager and the Executive Director Highway Program will be responsible for budgeting the costs in future years.

### Impact to Budget

The source of funds for this project is from the 20% Measure R Highway Capital Funds earmarked for these three Subregions. This action does not impact any of the budgets for bus and rail operations and capital expenditures, Proposition A and C and TDA administration, nor the Measure R administration budget.

### ALTERNATIVES CONSIDERED

The Board could decide to not approve the revised approved project lists and funding allocations. However, this option is not recommended as it would be inconsistent with Board direction given at the time of LRTP adoption and delay the project's schedule.

### NEXT STEPS

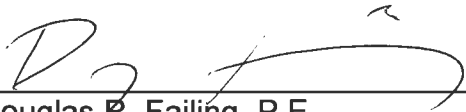
We will continue working with the Subregions so that they may continue to move forward on their projects. As the work progresses, we will provide updates to the Board on a periodic basis.

### ATTACHMENTS

- A. Measure R Highway Operational Improvements - Project List
- B. Background of Each Recommended Project Updates/Addition and Highway Operations Nexus for New Projects

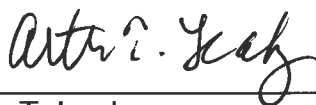
Prepared by:

Fulgene Asuncion, Transportation Planning Manager (213) 922-3025  
Tasha Higgins, Senior Engineering Manager, Highway Program (213) 922-7519  
Ben Jong, Transportation Planning Manager (213) 922-3053  
Lan Saadatnejadi, Executive Officer, Highway Program (213) 922-7337



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Douglas R. Failing, P.E.  
Executive Director, Highway Program



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Arthur T. Leahy  
Chief Executive Officer

**REVISED - ATTACHMENT A**

Measure R Highway Operational Improvements Project List

(Programmed Dollars in Thousands)

Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority setting & budget processes)

First 5 Year Allocation

Second 5 Year Allocation

(Change (Add)	Lead Agency	Funding Agreement No.	HwyID/ EA or ID	Project/Location	Total Allocation (10 yr)	First 5 Year Allocation					Second 5 Year Allocation			
						PRIOR Years	2012 2013	2013 2014	2014 2015	2015 2016	2016 2017	2017 2018	2018 2019	
<b>ARROYO VERDUGO OPERATIONAL IMPROVEMENTS (40 projects - 16 New)</b>					<b>57,000</b>	<b>3,851</b>	<b>15,887</b>	<b>9,825</b>	<b>5,615</b>	<b>3,797</b>	<b>5,817</b>	<b>6,208</b>	<b>6,000</b>	
10 Year Forecasted Funds in Long Range Plan (Cumulative)					57,000									
	Burbank	MR310.06	11058	San Fernando Blvd. / Burbank Blvd. Intersection	2,325		575	1,750						
C	Burbank	MR310.07	11059	Widen Magnolia Blvd / I-5 Bridge for center-turn lane, standard lanes, shoulders	3,967			250			3,717			
	Burbank	MR310.08	11060	I-5 Corridor Arterial Signal Improvements	2,600		2,600							
	Burbank	MR310.09	11061	SR-134 Corridor Arterial Signal Improvements	2,975		1,375	1,600						
C	Burbank	MR310.10	11062	Widen Olive Ave / I-5 Bridge for center-turn lane, standard width lanes, shoulders	3,897			250		3,647				
	Burbank	MR310.11	11063	Olive Ave. / Verdugo Ave. Intersection Improvement	1,600			400	1,200					
A	Burbank	TBD	TBD	Chandler Bikeway Extension (Call Match)	600							600	600	
	Burbank	TBD	TBD	City of Burbank General Plan Intersection Improvements (FUTURE PROJ)										
				Burbank Total	17,964		4,550	4,250	1,200	3,647	3,717	600	-	
C	Glendale	MR310.01	11069	Fairmont Ave. Grade Separation at San Fernando Rd. (Construction)	2,700	2,700								
	Glendale	MR310.02	TBD	Fairmont Ave. Grade Separation at San Fernando Rd. (Design)	300	300								
	Glendale	MR310.04	11070	San Fernando/Grandview At-Grade Rail Crossing Imp.	1,850		1,850							
	Glendale	MR310.05	11077	Central Ave Improvements / Broadway to SR-134 EB Offramp	3,250		3,250							
	Glendale	MR310.12	11065	Frontage Rd. South of SR-134 between Brand Blvd. and Geneva St.	150			150						
	Glendale	MR310.13	11066	Glendale Narrows Bikeway Culvert	475		100	375						
C	Glendale	MR310.14	11074	Verdugo Road Signal Upgrades	700	700								
	Glendale	MR310.15	11068	SR-134 Central Ave Eastbound Offramp Widening	3,315			100	3,215					
	Glendale	MR310.16	11072	SR-134 Glendale Ave. Interchange Modification	1,400			200	1,200					
	Glendale	MR310.17	11073	SR-134 Ramps / Harvey Dr. / Wilson Ave. Signal & Street Widening	650		75	575						
	Glendale	MR310.18	12006	Sonora Ave At-Grade Rail Crossing Safety Upgrade	2,700		2,700							
C	Glendale	MR310.19	11075	Traffic Signal Sync Brand / Colorado-San Fernando / Glendale-Verdugo	1,250		1,250							
	Glendale	MR310.20	11076	Verdugo Rd / Honolulu Ave / Verdugo Blvd Intersection Modification	400		325	75						
	Glendale	MR310.22	11071	Glendale Narrows Riverwalk Bridge	600		100	500						
	Glendale	MR310.XX	11067	Construction of Citywide Bicycle Facilities	500		400	100						
	Glendale	TBD	TBD	Colorado St. Widening between Brand Blvd. and east of Brand Blvd.	350		350							
A	Glendale	TBD	TBD	210 Soundwalls Project	5,000							2,000	3,000	

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Change (Add)	Lead Agency	Funding Agreement No.	HwyID/ EA or ID	Project/Location	Total Allocation (10 yr)	First 5 Year Allocation			Second 5 Year Allocation						
						PRIOR Years	2012 2013	2013 2014	2014 2015	2015 2016	2016 2017	2017 2018	2018 2019		
A	Glendale	TBD	TBD	Colorado Street Rehabilitation (Kenilworth Ave. to Central Ave.)	1,000						1,000				
A	Glendale	TBD	TBD	Construction of Citywide Bike Facilities	150					150					
A	Glendale	TBD	TBD	Foothill Signal Sync (Call Match)	105									105	
A	Glendale	TBD	TBD	Glendale Narrow Bridge (Call Match)	785									785	
A	Glendale	TBD	TBD	North Brand Blvd Rehabilitation (Freeway 134 to Mountain Street)	1,000										1,000
A	Glendale	TBD	TBD	Oceanview Blvd Rehabilitation (Verdugo Road to N'ly City Boundary) (Call Match)	210									210	
A	Glendale	TBD	TBD	Regional Arterial Traffic Performance Measurement System	100									100	
A	Glendale	TBD	TBD	Regional Bike Share (Call Match)	63									63	
A	Glendale	TBD	TBD	Regional Bike Stations (Call Match)	315									315	
A	Glendale	TBD	TBD	Signal Installations at Various Locations	1,500									750	750
A	Glendale	TBD	TBD	Signalizations of SR-2 Fwy Ramps @ Holly	600								100	500	
A	Glendale	TBD	TBD	Verdugo Blvd Rehabilitation (Verdugo Road to E'ly City Boundary)	1,000								1,000		
A	Glendale	TBD	TBD	Verdugo Wash Bike Path (Call Match)	630									630	
A	Glendale	TBD	TBD	Widening of SR-2 Fwy Ramps @ Mountain	1,400									150	1,250
Glendale Total					34,448	3,700	10,400	2,075	4,415	150	2,100	5,608	6,000		
LaCanada Flintridge		MR310.03	11064	Soundwalls on Interstate 210	4,588	151	937	3,500							
LaCanada Flintridge Total					4,588	151	937	3,500							
<b>ARROYO VERDUGO OPERATIONAL IMPROVEMENTS (40 projects - 16 New)</b>					<b>57,000</b>	<b>3,851</b>	<b>15,887</b>	<b>9,825</b>	<b>5,615</b>	<b>3,797</b>	<b>5,817</b>	<b>6,208</b>	<b>6,000</b>		

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Measure R Highway Operational Improvements Project List

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First 5 Year Allocation

Second 5 Year Allocation

(Change Add)	Lead Agency	Funding Agreement No.	HwyID/ EA or ID	Project/Location	Total Allocation (10 yr)	PRIOR Years	2012 2013	2013 2014	2014 2015	2015 2016	2016 2017	2017 2018	2018 2019
<b>LAS VIRGENES/MALIBU OPERATIONAL IMPROVEMENTS (22 projects - 4 New)</b>					<b>91,800</b>	<b>21,200</b>	<b>19,000</b>	<b>20,800</b>	<b>12,700</b>	<b>9,450</b>			
10 Year Forecasted Funds in Long Range Plan (Cumulative)					91,800								
	Westlake Village	MR311.02	11084	Highway 101 Park and Ride Lot (Design)	261	261							
	Westlake Village	MR311.12	11086	Arterial Capacity Enhancement and Emergency Relief Project	1,100			1,100					
	Westlake Village	MR311.18	11083	Route 101 / Lindero Cyn. Rd. Interchange Improvements	9,500	9,500							
	Westlake Village	MR311.19	11100	Highway 101 Park and Ride (Construction)	2,239	2,239							
Westlake Village Total					13,100	12,000	1,100						
C	Agoura Hills	MR311.03	11087	Palo Comado Interchange	18,090	2,590	3,500		6,000	6,000			
C	Agoura Hills	MR311.04	11088	Roundabout	5,300	125	5,000		175				
C	Agoura Hills	MR311.05	11089	Agoura Road Widening	17,210	2,885	5,000		4,500	4,825			
C	Agoura Hills	MR311.14	11092	Kanan Road Overpass Expansion - PSR, PR, PS&E									
Agoura Hills Total					40,600	5,600	10,000		8,000	11,000			
C	Calabasas	MR311.06	11094	Lost Hills Overpass and Interchange (Call Match)	19,000	2,500	7,000		9,500				
C	Calabasas	MR311.07	11095	Mulholland Highway Scenic Corridor Completion	2,750	250	2,000		500				
C	Calabasas	MR311.08	11098	Las Virgenes Scenic Corridor Widening	850	350		500					
C	Calabasas	MR311.09	11096	Parkway Calabasas / US 101 SB Offramp	1,500	500		1,000					
C	Calabasas	MR311.20	11101	Off-Ramp for US 101 at Las Virgenes Road	-								
C	Calabasas	MR311.21	11102	Mulholland Highway Hillside Removal	-								
C	Calabasas	MR311.26	12005	Mureau Road Overpass	-			-					
Calabasas Total					24,100	3,600	9,000		9,500	2,000			
C	Malibu	MR311.23	11104	Malibu Canyon Road Widening	-								
C	Malibu	MR311.24	11105	Malibu / Civic Center Way Widening	3,350			-	500	2,100	750		
C	Malibu	MR311.25	11106	Malibu / Pacific Coast Highway Bike Lane	3,050			900	300	1,850			
A	Malibu	MR311.26	12189	PCH - Raised Median and Channelization from Webb Way to Corral Canyon Road	4,000			100	500	2,500	900		
A	Malibu	MR311.27	12190	PCH Intersections Improvements	2,400			100	300	1,000	1,000		
A	Malibu	MR311.28	12191	Kanan Dume Road Arrestor Bed Improvements and intersection with PCH (Construction)	900			800	100				
A	Malibu	MR311.29	12192	PCH Regional Traffic Message System (CMS)	300			300					
Malibu Total					14,000			2,200	1,700	7,450	2,650		
<b>LAS VIRGENES/MALIBU OPERATIONAL IMPROVEMENTS (22 projects - 4 New)</b>					<b>91,800</b>	<b>21,200</b>	<b>19,000</b>	<b>20,800</b>	<b>12,700</b>	<b>9,450</b>	<b>2,650</b>		



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Measure R Highway Operational Improvements Project List

(Programmed Dollars in Thousands)

Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority setting & budget processes)

(Change Add)	Lead Agency	Funding Agreement No.	HwyID/ EA or ID	Project/Location	Total Allocation (10 yr)	First 5 Year Allocation			Second 5 Year Allocation					
						PRIOR Years	2012 2013	2013 2014	2014 2015	2015 2016	2016 2017	2017 2018	2018 2019	
<b>INTERSTATE 405, I-110, I-105, and SR-91 RAMP and INTERCHANGE IMPROVEMENTS (SOUTH BAY) (57 projects - 11 New)</b>					192,140	20,873	35,075	39,658	57,240	21,455	726	4,831	6,191	
10 Year Forecasted Funds in Long Range Plan (Cumulative)					237,200									
C	SBHP			Early Action Contingency	3,500	2,500		1,000						
	SBHP			Program Contingency	4,377	474	800		750	2,353				
C	SBHP			Strategic Positioning Projects Reserve	17,200				4,300	12,900				
SBHP Total					25,077	2,974	800	1,000	5,050	15,253				
C	SBCCOG	MR312.01	#N/A	South Bay Cities COG Program Development & Oversight and Program Administration	6,754	1,835	742	695	702	674	726	634	744	
C	SBCCOG	MR312.31	11124/F29	South Bay Subregional ITS Plan	7,000		5,000	2,000						
SBCCOG Total					13,754	1,835	5,742	2,696	702	674	726	634	744	
	Caltrans	MR312.11	11107/29380	ITS: I-405, I-110, I-105, SR-91 at freeway ramp/arterial signalized intersections	5,000	5,000								
C	Caltrans	MR312.24	11108/29370	PAED I-110 Aux lane from SR-91 to Torrance Blvd Aux lane & I-405/I-110 Connector	1,150			1,150						
	Caltrans	MR312.25	11109/29360	PAED I-405 at 182nd St. / Crenshaw Blvd	1,700			1,700						
C	Caltrans	MR312.29	11120/TBD	ITS: Pacific Coast Highway and Parallel Arterials From I-105 to I-110	9,000		7,000	7,000	2,000					
C	Caltrans	MR312.30	11121/TBD	PID/PSR/PDS for I-405 from I-110 to I-105 and I-105 from I-405 to Crenshaw Blvd	1,000		1,000							
A	Caltrans	TBD	TBD	PAED Integrated Corridor Management System (ICMS) on I-110 from Artesia Blvd and I-405	1,000								1,000	
Caltrans Total					18,850	5,000	1,000	9,850						
	Carson	MR312.37	11138/N34	Sepulveda Blvd widening from Alameda Street to ICTF Driveway	1,158		1,158							
Carson Total					1,158		1,158							
	El Segundo	MR312.22	11147/N69	Maple Ave improvements from Sepulveda Blvd to Parkview Ave	2,500	2,500								
C	El Segundo	MR312.27	11113/F39	Sepulveda Blvd improvements from Imperial Highway to Crenshaw Blvd	400			400						
C	El Segundo	MR312.39	11141/N46	Vista Del Mar realignment north of southern E. Segundo City Limit	1,500			150	1,350					
El Segundo Total					4,400	2,500		1,750						
	Gardena	MR312.17	11140/N42	Rosecrans Ave improvements from Vermont Ave to Crenshaw Blvd	5,140	300	317	4,523						
	Gardena	MR312.19	11146/N53	Artesia Blvd at Western Ave intersection improvements (WB left turn lanes)	675	75		600						
	Gardena	MR312.21	11149/N67	Vermont Ave improvements from Rosecrans Ave to 182nd Street	2,350	150	132	2,068						
A	Gardena	TBD	TBD	Construct one park and ride facility at SE corner of Rosecrans & Wadkins (Call Match)	427							213	214	
Gardena Total					8,592	525	449	7,191				213	214	
	Hawthorne	MR312.03	11118/F11	Rosecrans Ave widening from I-405 SB off ramp to Isis Ave	2,100	2,100								
	Hawthorne	MR312.33	11127/N14	Aviation Blvd at Marine Ave intersection improvements (WB right turn lane)	2,100		600		1,500					

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Measure R Highway Operational Improvements Project List  
Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority setting & budget processes)

(Programmed Dollars in Thousands)

Change (Add)	Lead Agency	Funding Agreement No.	HwyID/EA or ID	Project/Location	Total Allocation (10 yr)	First 5 Year Allocation			Second 5 Year Allocation					
						PRIOR Years	2012 2013	2013 2014	2014 2015	2015 2016	2016 2017	2017 2018	2018 2019	
C	Hawthorne	MR312.44	11152/N26	Hawthorne Blvd improvements from El Segundo Blvd to Rosecrans Ave	4,171		4,171							
A	Hawthorne	TBD	TBD	Signal improvements on Prairie Ave from 118th St. to Marine Ave. (Call Match)	1,237							618	619	
					<del>2,906</del>							<del>1,453</del>	<del>1,453</del>	
				Hawthorne Total	5,608	2,100	4,771			1,500		618	619	
C	Hermosa Beach	MR312.05	11114/F45	Pacific Coast Highway improvements from Artesia Blvd to Anita Street	368	368								
C	Hermosa Beach	MR312.38	11139/F44	Pacific Coast Highway at Aviation Blvd intersection improvements (SB left turn lanes)	872					872				
A	Hermosa Beach	TBD	TBD	Roadway, signalization on Aviation Blvd from Prospect Ave to PCH and on PCH (SR-1) from Artesia Blvd to Herond St	900							450	450	
				Hermosa Beach Total	2,140	368				872				
C	Inglewood	MR312.02	11142/F2	I-405 off ramp improvements at Manchester Blvd.	186	186								
	Inglewood	MR312.12	11122/N6	ITS: City of Inglewood Citywide ITS Master Plan	3,500	300	3,200							
A	Inglewood	TBD	TBD	La Cienega Blvd and Manchester Blvd geometric improvements (Call Match)	770							385	385	
A	Inglewood	TBD	TBD	ITS: Phase V of Inglewood's ITS Upgrades (Call Match)	586							85	501	
					<del>700</del>							<del>85</del>	<del>501</del>	
				Inglewood Total	5,042	486	3,200					470	886	
A	LA City	TBD	TBD	Improve Anaheim St. from Farragut Ave. to Dominguez Channel (Call Match)	2,354							1,177	1,177	
				LA City Total	2,354							1,177	1,177	
	LA County	MR312.16	11123/N32	Del Amo Blvd improvements from Normandie Blvd to Vermont Ave	26,920		1,000	1,000	24,920					
A	LA County	TBD	TBD	ITS: Improvements on South Bay arterials (Call Match)	1,138							153	985	
					<del>1,540</del>							<del>770</del>	<del>770</del>	
				LA County Total	28,058		1,000	1,000	24,920			153	985	
	Lawndale	MR312.15	11132/N22	Inglewood Ave widening from 156th Street to I-405 southbound on-ramp	500	100	400							
	Lawndale	MR312.36	11135/N25	ITS: City of Lawndale Citywide improvements	1,500		150		1,350					
A	Lawndale	TBD	TBD	Redondo Beach Blvd improvements from Hawthorne Boulevard to Prairie Ave.	2,041							1,020	1,021	
				Lawndale Total	4,041	100	550		1,350					
C	Lomita	MR312.43	11151/F53	Intersection Improvements at Western/Palos Verdes Dr and PCH/Walnut	900			90	810					
				Lomita Total	900			90	810					
	Manhattan Beach	MR312.04	11119/F42	Sepulveda Blvd at Marine Ave intersection improvements (WB left turn lanes)	235	235								
	Manhattan Beach	MR312.28	11117/F41	Seismic retrofit of widened Bridge 53-62 from Sepulveda Blvd from 33rd Street to south of Rosecrans Ave	9,100		4,550	4,550						
	Manhattan Beach	MR312.32	11126/N13	Aviation Blvd at Marine Ave intersection improvements (SB left turn lanes)	1,500			1,500						
	Manhattan Beach	MR312.34	11129/N57	Aviation Blvd at Artesia Blvd intersection improvements (SB right turn lane)	1,500					1,500				
	Manhattan Beach	MR312.35	11133/F43	Sepulveda Blvd at Manhattan Beach Blvd intersection improvements (NB, WB, EB left turn lanes and SB right turn lane)	980			980						
				Manhattan Beach Total	13,315	235	4,550	7,030		1,500				

**REVISED - ATTACHMENT A**

Measure R Highway Operational Improvements Project List

(Programmed Dollars in Thousands)

Proposed Project List and Ten-Year Allocation (Fiscal Years subject to MTA priority setting & budget processes)

Change (Add)	Lead Agency	Funding Agreement No.	HwyID/ EA or ID	Project/Location	Total Allocation (10 yr)	First 5 Year Allocation			Second 5 Year Allocation					
						PRIOR Years	2012 2013	2013 2014	2014 2015	2015 2016	2016 2017	2017 2018	2018 2019	
	Redondo Beach	MR312.06	11116/F46	Pacific Coast Highway improvements from Anita Street to Palos Verdes Blvd	1,400	1,400								
	Redondo Beach	MR312.07	11136/F47	Pacific Coast Highway at Torrance Blvd intersection improvements (NB right turn lane)	585	59	527							
	Redondo Beach	MR312.08	11137/F48	Pacific Coast Highway at Palos Verdes Blvd intersection improvements (WB right turn lane)	320	32	288							
	Redondo Beach	MR312.13	11130/N17	Aviation Blvd at Artesia Blvd intersection improvements (EB right turn lane)	22	22								
	Redondo Beach	MR312.14	11153/N19	Inglewood Ave at Manhattan Beach Blvd intersection improvements (EB right turn lane)	30	30								
	Redondo Beach	MR312.20	11128/N58	Aviation Blvd at Artesia Blvd intersection improvements (NB right turn lane)	847	847								
	Redondo Beach	MR312.42	11150/N18	Inglewood Ave at Manhattan Beach Blvd intersection improvements (SB right turn lane)	5,175			518	4,658					
	Redondo Beach Total				8,379	2,390	815	518	4,658					
	Torrance	MR312.05	11115/F49	Pacific Coast Highway improvements from Palos Verdes Blvd to Crenshaw Blvd	1,840			184		1,656				
	Torrance	MR312.10	11134/F51	Pacific Coast Highway at Hawthorne Blvd intersection improvements	19,600	1,300		300	18,000					
	Torrance	MR312.18	11145/N47	Maple Ave at Sepulveda Blvd intersection improvements (SB right turn lane)	600	60	540							
	Torrance	MR312.23	11143/P4	Torrance Transit Park and Ride Regional Terminal Project 465 Crenshaw Blvd	18,100	1,000	10,500	6,600						
C	Torrance	MR312.26	11111/F58	I-405 at 182nd St. / Crenshaw Blvd operational improvements	300			300						
	Torrance	MR312.40	11144/F50	Pacific Coast Highway at Vista Montana/Anza Ave intersection improvements	2,900			2,900						
A	Torrance/ Los Angeles	TBD	TBD	Add turn lanes on Western Av. at Sepulveda Blvd. (Cal Match)	2,082							1,041	1,041	
					727							368	368	
A	Torrance	TBD	TBD	Widen 182nd St., Lorrta Blvd, Spencer St. and Emerald St. at Hawthorne Blvd. to allow right turn lanes (Cal Match)	1,050							525	525	
	Torrance Total				46,472	2,360	11,040	10,284	18,000	1,656		1,566	1,566	
	<b>INTERSTATE 405, I-110, I-105, and SR-91 RAMP and INTERCHANGE IMPROVEMENTS (SOUTH BAY) (57 projects - 11 New)</b>				192,140	20,873	35,075	39,658	57,240	21,455	726	4,831	6,191	

**Background of Each Recommended Project Update/Addition  
And Highway Operations Nexus for New Projects**

**A. Funding Allocation Changes**

Arroyo Verdugo Subregion:

The City of Burbank has requested a funding reduction and allocation change for two projects: MR310.07 Widen Magnolia Blvd/I-5 Bridge and MR310.10 Widen Olive Ave/I-5 Bridge.

The City of Glendale has requested to correct three project's allocated amounts from its September 2012 meeting. In Attachment A, the projects MR310.01, MR310.14, and MR310.19 were returned to their original allotment prior to the September 2012 meeting.

Las Virgenes/Malibu Subregion:

The City of Agoura Hills is requesting deferring Project MR311.14 - Kanan Road Overpass Expansion PSR, PR and PS and E for \$5,000,000 in FY 2014-15 and the reduction in programmed funding for MR311.03 to provide additional funding for Projects MR311.04 and MR311.05.

The City of Calabasas is requesting deferring Project MR 311.21 - Mulholland Hillside Removal for \$2,000,000 in FY 2015-16 to add funds to MR 311.07, MR311.08 and MR311.09. They are requesting a \$1,500,000 reduction in funds for Project MR311.09 – Parkway Calabasas/US 101 SB Off ramp in a prior year allocation and adding those funds to MR 311.06 in FY 2013-2014 (\$500,000 remains in MR 311.09 in the prior year allocation). The City is requesting deferring Project MR 311.20 for \$500,000 in FY 2013-14 – Offramp for US 101 at Las Virgenes Road to add funds to MR 311.06 and the deferring of MR 311.26 – Mureau Road Overpass for \$500,000 in FY 2013-14 to add funds to MR 311.06. Project MR 311.06 will then have \$9,500,000 in FY 2013-14 in addition to the existing programming. The City is also asking for a portion of its funds on the Lost Hills Overpass and Interchange Project - #MR311.06 be eligible as a local match in the 2013 Call for Projects competition.

The City of Malibu is requesting deferring Project MR311.23 - Malibu Canyon Road Widening Project for \$4,000,000 in FYs 2013-14 to 2015-16 to provide funds for four new projects and they request the reduction of funds for Malibu/Civic Center Way Widening - #MR311.24 and PCH Bike Lane - #MR311.25 to provide funds for the four new projects. The City is asking for \$400,000 to be added to their FY 2013-14 programming and deferring \$2,750,000 from FY 2015-16 to FY 2016-17.

South Bay Subregion:

We are recommending deferring the programming year for Caltrans Project MR312.25, Project Approval and Environmental Document (PA&ED) for I-405 at Crenshaw/182<sup>nd</sup> from FY 12 to FY 14 with no changes to the programmed budget.

Caltrans has requested to combine two of its projects, Projects F38 and F58 into one project, Project #: MR312.24, PA&ED preparation for the I-110 Aux Lane and I-405/I-110 connector project. The programming year for this project will also be shifted from FY 12 to FY14. No additional funding is required with the combination of these two projects and in deferring the programming year.

Caltrans has requested to combine two of its Intelligent Transportation Systems (ITS) projects, Projects FN1 and FN2, to Project #:MR312.29, with no additional funding required. **The programming year for this project will be shifted from FY 12 to FY14.**

In addition, we are recommending Caltrans to use existing Measure R funding from the previously approved Strategic Position Project reserve funds to conduct preliminary studies for Project #: MR312.30 on the I-405 and I-105 Freeway corridors totaling \$1 million in the current FY 13 fiscal year.

The City of El Segundo has requested to shift funding years for its Project #: MR312.39, Vista Del Mar Realignment. This project currently has funds programmed in FY 13 for \$150,000 and \$1.35 million in FY 15. The City is requesting to shift by one year each of the programming years to FY 14 and FY 16 respectively. This proposed shift in programming years will not cause any changes to the programmed budget.

The City of Hawthorne has requested an additional \$1.5 million for its Marine Ave./Aviation Blvd. Intersection Improvement project, Project #:MR312.33, for construction activities to ensure completion of this project. The additional funding requested has been recommended for Metro Board approval by the SBCCOG Board at its November 2012 meeting. The \$1.5 million will come from existing Measure R funds, specifically from Early Action Contingency funds that have been previously approved by the Metro Board. Additionally, the City of Hawthorne has requested to advance funding for Project N26 or Project #:MR312.44 by one year from FY 14 to the current 2013 fiscal year.

The City of Hermosa Beach has requested to shift funds between two of its projects, Project #s: MR312.38 and MR312.05, with no net funding change in Hermosa Beach's programmed funds.

The City of Lomita has requested to combine Projects F53 and F56 to Project #: MR312.43, with no additional funding required. Caltrans was previously assigned as the lead agency for Project F56, but with the combining of these two projects, the City of Lomita will be the designated lead agency. The first programming year of funding for this project in the amount of \$40,000 will be deferred by one year from FY 13 to FY 14.

The City of Torrance has requested to defer the programming year for Project #: MR312.26, in the amount of \$300,000, from FY 12 to FY 14, with no changes to the project's programmed budget.

## **B. Scope Changes**

### Arroyo Verdugo Subregion:

The City of La Canada Flintridge has requested to modify the scope of project MR310.03, Soundwalls on Interstate 210. The city plans to add a soundwall to the project. This addition will cause no change to the project funding or project schedule.

### Las Virgenes/Malibu Subregion:

The subregion does not have any scope changes on the existing projects at this time.

### South Bay Subregion:

The City of Inglewood has requested to re-scope its Project MR312.02, and to remove Caltrans as a co-lead agency for the project. There will be no changes to the project funding with the re-scoping of the project.

The City of Manhattan Beach has requested to change the scope of its Project F41 or Project #: MR312.28, from widening the Sepulveda Blvd. bridge no. 53-62 to seismically retrofitting the bridge. The bridge widening is being funded and completed through other efforts by the City. There will be no change to the project funding with the proposed change in project scope.

The County of Los Angeles is considering revising the project limits for its Project N32 or Project #: MR312.16, originally located on Del Amo Blvd. from Normandie Blvd. to Vermont Ave. to Vermont Ave. to Western Ave. and to construct the missing segment on Del Amo Blvd. The City of Los Angeles is considering serving as a co-lead agency for this project as a portion of the revised project limits lie on City boundaries. These proposed changes yield no changes in the County's programmed funds.

## **C. New Projects**

### Arroyo Verdugo Subregion:

We are recommending that the Board approve adding 16 new projects amounting to approximately \$14.5 million to the Arroyo Verdugo Measure R Highway project list for the periods from FY 16 to FY 19.

### Las Virgenes/Malibu Subregion:

We are recommending that the Board approve adding 4 new projects by for the City of Malibu by deleting the Malibu Canyon Road Project #MR311.23 and revising budget amounts for the other two existing Project #'s MR311.24 and 311.25. Also, the city is moving \$2.750 M from FY 2015-16 to FY 2016-17.

### South Bay Subregion:

We are recommending that the Board approve adding 11 new projects amounting to approximately \$14.4 \$13.2 million to the South Bay Subregion Measure R Highway

project list for the two-year period FY 18 through FY 19, which include projects throughout the South Bay area and portions of the County and City of Los Angeles.

## Highway Operations Nexus for New Projects

### Arroyo Verdugo Subregion:

#### **City of Burbank**

1. *Chandler Bikeway Extension*

This project would extend the Class I Chandler Bikeway from its current terminus at Mariposa Street eastward to the future San Fernando Bikeway at Burbank Western Channel just east of Victory Boulevard via the Metro and City of Burbank owned Chandler Branch rail corridor. This extension would connect the Chandler Bikeway to the Downtown Burbank Metrolink Station.

Measure R NEXUS to Highway Operational Definition: This project is a bicycle project located within one mile of a regional freeway corridor as defined by Metro's Highway Operations Improvements definition.

#### **City of Glendale**

2. *210 Soundwalls Project*

This project include design and construction of certain sections Soundwalls along freeway 210 east and west sides.

Measure R NEXUS to Highway Operational Definition: This project is a Soundwalls project defined by Metro's Highway Operation Definition.

3. *Colorado Street Rehabilitation (Kenilworth Ave. to Central Ave.)*

The project includes grinding of existing asphalt concrete (AC) pavement; removal and replacement ; installation of traffic lane striping; and modification of traffic signals at the Columbus Avenue intersection.

Measure R NEXUS to Highway Operational Definition: This project is a roadway improvement and signal modification located within one mile of a freeway corridor as defined by Metro's Highway Operation Definition.

4. *Construction of Citywide Bike Facilities*

This project include construction of Class I,II, and III bike lane and installation of bike parking facilities and other related amenities related to bicycle.

Measure R NEXUS to Highway Operational Definition: This project is a bicycle project as Metro's Highway Operation Definition.

5. *Foothill Signal Sync*

This project is local match for 2013 Metro's CFP and include signal sync. along Foothill Blvd.

Measure R NEXUS to Highway Operational Definition: This project is for local match for signal sync. along Foothill Blvd as Metro's Highway Operation Definition.

6. *Glendale Narrow Bridge*

This project is local match for 2013 Metro's CFP and include construction of a bridge to facilitate bicyclist to access to Griffith Park and regional bikeway system. signal sync. along Foothill Blvd.

Measure R NEXUS to Highway Operational Definition: This project is a bicycle project as Metro's Highway Operation Definition.

7. *North Brand Boulevard Rehabilitation (Freeway 134 to Mountain Street)*

The project includes grinding of existing asphalt concrete (AC) pavement; removal and replacement of deteriorated AC and Portland Cement Concrete pavements, and streetlight and pedestrian light poles and fixtures; overlay with rubberized asphalt concrete pavement over; installation of landscape medians; installation of traffic/bike lane striping; and modification of traffic signals at Glenoaks Boulevard, at Dryden Street and at Stocker Street intersections

Measure R NEXUS to Highway Operational Definition: This project is a roadway improvement, bike lanes, and signal modification located within one mile of a freeway corridor as defined by Metro's Highway Operation Definition

8. *Oceanview Boulevard Rehabilitation (Verdugo Road to N'Iy City Boundary)*

This project is roadway improvement on Oceanview Blvd. to improve road capacity.

Measure R NEXUS to Highway Operational Definition: This project is for local match for signal sync. along Foothill Blvd as Metro's Highway Operation Definition.

9. *Regional Arterial Traffic Performance Measurement System*

Regional Arterial Traffic Performance Measurement System collects real-time traffic operation data, such as speeds, volumes and occupancies, from field detectors on local arterials, stores and process this information and disseminate the traffic performance information to the public via the internet

Measure R NEXUS to Highway Operational Definition: This project is for local match for Regional Arterial Traffic Performance Measurement System as Metro's Highway Operation Definition.

10. *Regional Bike Share*

This project is a local match for a project that include construction bike sharing program to provide bicycles for commuters and utilitarian users in downtown Glendale.

Measure R NEXUS to Highway Operational Definition: This project is a bicycle project as Metro's Highway Operation Definition.

11. *Regional Bike Stations*

This project is local match for a project that include construction bike stations in Glendale downtown area to facilitate cyclist and provide other related amenities related to bicycle.

Measure R NEXUS to Highway Operational Definition: This project is a bicycle



project as Metro's Highway Operation Definition.

*12. Signal Installations at Various Locations*

This project include installations of new traffic signals at various locations in Glendale to improve capacity and traffic flow on major streets.

Measure R NEXUS to Highway Operational Definition: This Project consists is a signal at the intersection Improvements located within one mile of a freeway corridor as defined by Metro's Highway Operation Definition.

*13. Signalizations of SR-2 Fwy Ramps @ Holly*

This Project consists of installation of a signal at the intersection of Holly Drive and SR-2 Freeway Off-Ramp

Measure R NEXUS to Highway Operational Definition: This Project consists is a signal at the intersection Improvements located within one mile of a freeway corridor as defined by Metro's Highway Operation Definition.

*14. Verdugo Boulevard Rehabilitation (Verdugo Road to E'ly City Boundary)*

The project includes grinding of existing asphalt concrete (AC) pavement; removal and replacement of deteriorated AC and Portland Cement Concrete pavements; overlay with rubberized asphalt concrete pavement over AC leveling course; installation of traffic/bike lane striping; and modification of traffic signals at the Columbus Avenue intersection.

Measure R NEXUS to Highway Operational Definition: This project is a roadway improvement, bike lanes, and signal modification located within one mile of a freeway corridor as defined by Metro's Highway Operation Definition .

*15. Verdugo Wash Bike Path*

This project is for local match for Metro's 2013 CFP. Project include construction of a Class I bike path along Verdugo wash to connect north Glendale to downtown area.

Measure R NEXUS to Highway Operational Definition: This project is a bicycle project as Metro's Highway Operation Definition.

*16. Widening of SR-2 Fwy Ramps @ Mountain*

This project consists of widening the Northbound and Southbound off ramps at the Mountain Avenue interchange with SR -2

Measure R NEXUS to Highway Operational Definition: This project is a freeway ramp modification improvement as defined by Metro's Highway Operation Definition.

Las Virgenes/Malibu Subregion:

**City of Malibu**

- 1. Pacific Coast Highway (PCH) and Kanan Dume Intersection and Arrester Bed Improvements*

Improvements to channelize the Kanan Dume Road and PCH and the existing arrestor bed along Kanan Dume Road north of PCH. Improvements include installing traffic signal detectors in the arrestor bed, extension of the left turn lane, and realigning, extending and upgrading the arrestor bed.

Measure R NEXUS to Highway Operational Definition: This project is a safety improvement that reduces incident delay and an intersection category project as defined in Metro's Highway Operational Definition.

2. *Pacific Coast Highway (PCH) Raised Median Channelization from Webb Way to Corral Canyon Road*

Install raised medians on PCH for a distance of approximately 4 miles to prevent uncontrolled turning movements on the highway which disrupt traffic flow.

Measure R NEXUS to Highway Operational Definition: This project is a channelization type project as defined in Metro's Highway Operational Definition.

3. *Pacific Coast Highway (PCH) Traffic Message Systems (CMS)*

Installation of Changeable Message Signs at strategic locations on PCH to notify travelers of traffic and safety information.

Measure R NEXUS to Highway Operational Definition: This project is a corollary project to the traffic surveillance category - in that traffic conditions can be relayed to motorists – as defined in Metro's Highway Operational Definition.

4. *Pacific Coast Highway (PCH) Intersection Improvements*

Selected intersections will be improved. Selected improvements at several intersections can include: traffic signal installations and addition of protected phases, dedicated turn lanes, flashing beacons crosswalks and channelization improvements

Measure R NEXUS to Highway Operational Definition: This project is in the signal and/or intersections improvements and the safety categories project as defined in Metro's Highway Operational Definition.

South Bay Subregion

**Los Angeles County**

1. *ITS Improvements on South Bay Arterials*

Measure R Nexus to Highway Operations: This project is an eligible traffic signal upgrade/timing/synchronization to arterials that benefit the freeways in the South Bay.

**City of Lawndale**

2. *Redondo Beach Boulevard improvements from Hawthorne Boulevard to Prairie Avenue*

Measure R Nexus to Highway Operations: This project is an eligible signal and/or intersection improvement to a roadway that will benefit the I-405 freeway.

**City of Inglewood**

3. *Geometric improvements on La Cienega Boulevard and Manchester Boulevard*

Measure R Nexus to Highway Operations: This project is an eligible intersection improvement and ramp modification from I-405 to Manchester.

4. *Phase V of Inglewood's ITS Upgrades*

Measure R Nexus to Highway Operations: This project is an eligible traffic signal upgrade/timing/synchronization improvement project to arterials within one mile

and will benefit the I-405 and I-105 freeways.

**City of Gardena**

5. *Construction of a park and ride facility at the southeast corner of Rosecrans Boulevard and Wadkins (vacant lot)*

Measure R Nexus to Highway Operations: This project is an eligible Park and Ride facility that reduces congestion and addresses operational efficiency and

benefits the I-110 and I-405 freeways by reducing vehicle demand.

**City of Hawthorne**

6. *Signal improvements on Prairie Avenue from 118th Street to Marine Avenue*

Measure R Nexus to Highway Operations: This is an eligible traffic signal/timing/synchronization of an arterial that will benefit the I-405 freeway.

**City of Hermosa Beach**

7. *Roadway and signalization on Aviation Boulevard from Prospect Avenue to Pacific Coast Highway and on Pacific Coast Highway (SR-1) from Artesia Boulevard to Herondo Street*

Measure R Nexus to Highway Operations: This project is an eligible safety,

signals and/or intersection improvements of SR-1 and will benefit the I-405

freeway.

**City of Los Angeles**

8. *Improve Anaheim Street from Farragut Avenue to Dominguez Channel*

Measure R Nexus to Highway Operations: This project is an eligible street widening that will benefit SR-1 and the I-710 and I-110 freeways.

**City of Torrance**

9. *Add turn lanes on Western Avenue at Sepulveda Boulevard*

Measure R Nexus to Highway Operations: This project is an eligible intersection

improvement of SR-213 and will benefit the I-110 and I-405 freeways.

10. *Widen 182nd Street, Lomita Boulevard, Spencer Street, and Emerald Street at Hawthorne Boulevard to allow right turn lanes*

Measure R Nexus to Highway Operations: This project is an eligible intersection

improvement of SR-107 and will benefit the I-405 freeway.