

Item


Highway Program Project Budget and Schedule Status Report

Planning & Programming Committee
March 19, 2014




Cost & Schedule Performance Summary Chart

Slide #	Project	Cost Performance	Schedule Performance	Comments
4	I-5/SR-14 Capacity Enhancements (HOV Direct Connector)	On target	On target	
5	I-5 North Capacity Enhancements from SR-134 to SR-118	On target	Possible problem	SR-134 to Magnolia-experiencing a high level of contract change order activity. Empire/Burbank-beginning of construction delayed due to underground utility relocation delays.
6	I-10 HOV Widening from I-605 to SR-57	On target	Possible problem	Citrus to SR-57 delayed to revise roadway geometry lowering the freeway grade at Kellogg Hill, as a consequence of SHOPP project funding
7	BNSF Grade Separations in Gateway Cities	Possible problem	Possible problem	Utility relocation, third party impacts, potential funding gap, scope growth.
8	Countywide Soundwall Construction (Post 1989 Retrofit Program)	Possible problem	Possible problem	Packages 6&8 will be completed early 2014 with Packages 5&7 scheduled for construction completion late 2014. Packages 10&11 are candidates for accelerated delivery as part of ARTL.
9	I-5 South Capacity Enhancements from I-605 to Orange County Line	Possible problem	Major issue	Due to ROW and Utility Relocation delay, the project's completion year is expected to be extended to 2019.
10	SR-138 Capacity Enhancements	On target	On target	
11	I-5 North North Capacity Enhancements: Phase 1: Truck Lanes from SR-14 to Pico Canyon Rd.	On target	On target	
12	I-5 North North Capacity Enhancements: Phase 2: Truck Lane +HOV from SR-14 to Parker Rd	Major issue	Major issue	Majority of Measure R funds are in the 2nd decade. Require America Fast Forward to advance project. Candidate for accelerated delivery as a part of the Accelerated Regional Transportation Improvements Project.
13	I-5 North North Capacity Enhancements: Phase 2B: Truck Lane +HOV from Parker Rd. to Kern County Line	Major issue	Possible problem	Schedule predicated upon funding availability. Funds are allocated in the 2nd and 3rd decades. Require America Fast Forward to advance project. Funding is insufficient to cover costs.


 On target
 Possible problem
 ▲ Major issue

2

Cost & Schedule Performance Summary Chart

Slide #	Project	Cost Performance	Schedule Performance	Comments
14	Accelerated Regional Transportation Improvements Project	On target	Possible problem	Schedule is pending approval by CTC as a P3.
15	SR-2 Freeway Terminus Improvement (Phase 1)	On target	On target	
16	I-605 Corridor "Hot Spot" Interchanges	Major issue	On target	Program not fully funded.
17	High Desert Corridor (Environmental)	On target	On target	
18	SR-710 North Study	Major issue	Possible problem	Potential funding gap, only Measure R funding has been secured. Funding gap based on alternative selected.
19	I-710 South	Major issue	Major issue	Project not fully funded. Schedule delayed due to a need for re-circulation of the Draft EIR/EIS.
20	Las Virgenes/Malibu COG Measure R Operational Improvements Program	On target	On target	
21	Arroyo Verdugo COG Measure R Operational Improvements Program	On target	On target	
22	South Bay (I-405, I-110, I-105 and SR-91) Ramp and Interchange Operational Improvements Program	On target	On target	

On target
 Possible problem
 Major issue

3

I-5 / SR-14 Capacity Enhancements (HOV Direct Connector)

BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$175.8	\$175.8

Funds include: CMAQ, RIP, Prop C, and Measure R

- Scope includes pre-construction and construction activities
- Supplemental remediation work in the amount not to exceed \$3.75 million for safety, slope and drainage related to the project.

SCHEDULE

	Current 2013	Forecast 2013
Construction Complete	96%	96%

- Construction – 96% complete
- Opened to traffic on Dec. 23rd, 2012
- Ribbon-cutting ceremony held on Jan. 11th, 2013

POTENTIAL RISKS:


- Additional safety, slope and drainage work are still outstanding.




On target
 Possible problem
 Major issue

4

I-5 North Capacity Enhancements from SR-134 to SR-118

● BUDGET			◆ SCHEDULE														
Total Cost (\$ mil.)	Current	Forecast	Construction Complete	Current	Forecast												
	\$1.01B	\$1.01B		2017	2017												
<p><u>Funds include:</u> RIP, TCRP, RSTP, Prop C, SLPP, CMAQ, ARRA, IIP, SAFETEA-LU, CMIA, Measure R</p> <ul style="list-style-type: none"> • Scope includes pre-construction and construction activities 			<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Buena Vista~SR-170</td> <td>2014</td> <td>2014</td> </tr> <tr> <td>▲ SR-134~Magnolia</td> <td>2016</td> <td>2016</td> </tr> <tr> <td>SR-170~SR-118</td> <td>2015</td> <td>2015</td> </tr> <tr> <td>▲ Empire/Burbank</td> <td>2017</td> <td>2017</td> </tr> </tbody> </table>			Buena Vista~SR-170	2014	2014	▲ SR-134~Magnolia	2016	2016	SR-170~SR-118	2015	2015	▲ Empire/Burbank	2017	2017
Buena Vista~SR-170	2014	2014															
▲ SR-134~Magnolia	2016	2016															
SR-170~SR-118	2015	2015															
▲ Empire/Burbank	2017	2017															
<p>POTENTIAL RISKS:</p> <p>SR-134~Magnolia:</p> <ul style="list-style-type: none"> • Experiencing a high level of contract change order activity <p>Empire/Burbank:</p> <ul style="list-style-type: none"> • Beginning of construction delayed due to underground utility relocation delays 																	







 On target
 Possible problem
 Major issue

5

I-10 HOV Widening from I-605 to SR-57

● BUDGET			◆ SCHEDULE											
Total Cost (\$ mil.)	Current	Forecast	Construction Complete	Current	Forecast									
	\$565.9	\$565.9		2018	2019									
<p><u>Funds include:</u> CMAQ, STIP-GF, STIP-RIP, Prop C, RSTP and TCRP</p> <ul style="list-style-type: none"> • Scope includes pre-construction and construction activities 			<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>I-605~Puente</td> <td>Complete</td> <td>Complete</td> </tr> <tr> <td>Puente~Citrus</td> <td>2017</td> <td>2017</td> </tr> <tr> <td>Citrus~SR-57</td> <td>2018</td> <td>2019</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • I-605~Puente opened to traffic in Dec. 2013 			I-605~Puente	Complete	Complete	Puente~Citrus	2017	2017	Citrus~SR-57	2018	2019
I-605~Puente	Complete	Complete												
Puente~Citrus	2017	2017												
Citrus~SR-57	2018	2019												
<p>POTENTIAL RISKS:</p> <ul style="list-style-type: none"> • Right-of-Way acquisitions • Forest Lawn demands for work on their slopes • Citrus-SR-57 delayed to revise roadway geometry lowering the freeway grade at Kellogg Hill, as a consequence of SHOPP project funding 														



 On target
 Possible problem
 Major issue

6


BNSF Grade Separations in Gateway Cities




◆ BUDGET	Current	Forecast	◆ SCHEDULE ³	Current	Forecast
Total Cost (\$ mil.)	\$235M ¹	\$235M ¹	Construction Complete	2014	2014
Passons Boulevard	\$43M	\$43M	<u>Passons Boulevard:</u>		
Valley View Avenue	\$79M	\$75M	End Construction- November 2012*		
<u>Fund Sources²:</u>			*Opened to traffic Nov. 6, 2012		
City Funds, Measure R, BNSF, PUC, STIP, TCRF, TCIF, CMAQ, SAFETEA-LU and other federal funds			<u>Valley View Avenue:</u>		
			Under Construction		
			End Construction - December 2014		

POTENTIAL RISKS:

- Utility Relocations
- Third Party Impacts & Mandates
- Scope Growth
- Funding Gaps

¹Denotes total program estimate reflected in Multi-County Goods Movement Action Plan (2008 \$s). (Balance of funds are earmarked for the remaining projects in various planning stages).
²Funds sources vary with projects
³Multiple grade separation projects with various schedules in early planning stages include: Rosecrans Ave./Marquardt Ave., Norwalk Blvd./Los Nietos Rd., Pioneer Blvd. and Lakeland Rd.



 On target
 Possible problem
 Major issue

7

Countywide Soundwall Construction (Post 1989 Retrofit Program)


◆ BUDGET	Current	Forecast	◆ SCHEDULE**	Current	Forecast
Total Cost (\$ mil.)	\$162	\$262	Construction Complete	2014	2014
• <u>Secured Funds:</u> Measure R / Prop C (\$162M)			•Pkgs. 2 & 3	Complete	Complete
• <u>Unsecured Funds:</u> Various (\$100M)			•Pkg. 4	Complete	Complete
• Currently total 10 packages have been programmed			•Pkgs. 5 & 7	2014	2014
			•Pkgs. 6 & 8*	2014	2014
			•Pkgs. 10 & 11**	2 nd decade	2 nd decade
			•Duarte	Complete	Complete




POTENTIAL RISKS:

- Third party activities
- Project list is a living document. Total delivery cost of Post 1989 Retrofit Soundwall Program is approximately \$2 billion.

OPPORTUNITY:

* Pkgs. 10 & 11 are candidates for accelerated delivery as a part of the Accelerated Regional Transportation Improvements Project



 On target
 Possible problem
 Major issue

8

I-5 South Capacity Enhancements from I-605 to Orange County Line

◆ BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$1.77B	\$1.82B

Funds: CMIA, RIP (GR & State), IIP, TCRP, Demo, CMAQ, STPPL, Prop C 25%, Measure R

CONTRACT AWARD:

Carmenita Rd	September 2011
Segment 1	January 2012
Segment 3	September 2012
Segment 4	September 2012
Segment 5	Early 2014

▲ SCHEDULE	Current	Forecast
Construction Complete	2016	2019
Carmenita Rd	2015	2015
Seg. 1 - Alondra Blvd.	2016	2016
Seg. 2 - Valley View	2016	2019
Seg. 3 - Shoemaker/Rosecrans	2016	2017
Seg. 4 - Imperial Hwy.	2016	2017
Seg. 5 - Florence Ave.	2016	2018

POTENTIAL RISKS:

- R/W Acquisition
- Utility Relocation
- Hazardous Waste
- Third Party Agreements
- Buy America compliance

On target
 Possible problem
 Major issue

9

SR-138 Capacity Enhancements

● BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$410	\$410

Funds include: RIP, IIP, Measure R

- Scope includes pre-construction and construction activities

● SCHEDULE	Current	Forecast
Construction Complete	2020*	2020*
Seg. 1, 2, 5, 7,10,11 &12	Complete	Complete
Segments 3&4	2016	2018
Segment 6	2018	2017
Segments 8&9	2016	2017
Segment 13	2019	2018
*Between I-5 and SR-14 (PA/ED only)	2016	2016
Palmdale & Lancaster Projects (10 total)	Various	Various

*Construction for SR-138 between I-5 and SR-14 is TBD depending on funding availability


POTENTIAL RISKS:

- Locating property owners along Right-of-Way
- Right-of-Way procurement

On target
 Possible problem
 Major issue

10

I-5 North North Capacity Enhancements: Phase 1: Truck Lanes from SR-14 to Pico Canyon Rd.



BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$131	\$70


- Funds include: SHOPP and Measure R
- Scope includes pre-construction and construction activities




SCHEDULE	Current	Forecast
Construction Complete	2014	2014

- Notice to Proceed - March 2012
- Groundbreaking held on May 3, 2012
- Currently in Construction

POTENTIAL RISKS:


- Differing site conditions during construction



 On target
 Possible problem
 Major issue

11

I-5 North North Capacity Enhancements: Phase 2A: Truck Lane +HOV from SR-14 to Parker Rd.



BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$279	\$375

- Secured Funds: Measure R (\$279M)
- Unsecured Funds: Fed, State, Local (\$96M)

SCHEDULE*	Current	Forecast
Design Complete	2014	2014

RFQ - Released 5/31/13

RFP	2014	2014
Financial Close	2014/15	2014/15
Construction Complete	2019	2019


*This schedule assumes the project will be approved by CTC as a part of ARTI P3.




POTENTIAL RISKS:

- Majority of Measure R funds are in the 2nd decade. Require America Fast Forward to advance project

OPPORTUNITY:


- Candidate for accelerated delivery as a part of the Accelerated Regional Transportation Improvements Project



 On target
 Possible problem
 Major issue

12

I-5 North North Capacity Enhancements: Phase 2B: Truck Lane +HOV from Parker Rd. to Kern County Line






▲ BUDGET			◆ SCHEDULE		
Total Cost (\$ mil.)	Current	Forecast	Current	Forecast	
	\$2M	\$5.0B	TBD	TBD	

Secured Funds: Measure R (\$2M for project initiation)
Unsecured Funds: Fed, State, Local (\$5B)


- Schedule predicated upon funding availability

POTENTIAL RISKS:

- Funds are allocated in the 2nd and 3rd decades. Require America Fast Forward to advance project
- Funding is insufficient to cover costs

Metra  On target  Possible problem  Major issue 13

Accelerated Regional Transportation Improvements Project



● BUDGET			◆ SCHEDULE		
Total Cost (\$ mil.)	Current	Forecast	Construction Complete	Current 2030	Forecast 2019
	\$700	\$700			

Funds include:
Measure R, Prop C 25%, Toll Revenues and SHOPP

RFQ-Released 5/31/13	2013	2013
RFP	2014	2014
Financial Close	2015	2015
Construction Complete	2019	2019

Pending approval by CTC as a P3.

POTENTIAL RISKS:




- Market conditions

OPPORTUNITIES:
Public Private Partnership delivery produces:

- Accelerated delivery
- Risk sharing with private contractors
- Better leveraging of Measure R funding
- Market interest

PROJECTS UNDER CONSIDERATION:

- I-5 North Capacity Enhancements (Phase 2A: Truck Lane + HOV from SR-14 to Parker Rd.)
- I-5 Pavement Rehabilitation
- SR-71 Expressway Gap Closure (from I-10 to Mission Blvd.)
- SR-71 Expressway Gap Closure (from Mission Blvd. to Rio Rancho Rd.)
- Soundwall Package 10&10a: I-210 Pasadena and Arcadia
- Soundwall Package 11: I-405 & SR 170 in Los Angeles

Metra  On target  Possible problem  Major issue 14

SR-2 Freeway Terminus Improvement (Phase 1)

BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$11.2	\$11.2

Secured Funds: TEA21 Earmark (\$11.2M for ED and Phase 1 construction)

SCHEDULE	Current	Forecast
Construction Complete	2015	2015
Phase 1A	2013	2013
Phase 1B	2014	2015

POTENTIAL RISKS:

- Controversy over project not fully funded
- Diversion of traffic to Cove Ave. in Phase 2
- Phase 2 requires additional Federal/State grant

OPPORTUNITIES:

- Phase 1A started construction in April 2013
- Phase 1B will start construction in Winter 2014/2015
- Phase 2 to relocate existing diamond off-ramp will proceed once Federal/State discretionary funds are obtained for the project (\$15 M)

On target
Possible problem
Major issue

15

I-605 Corridor "Hot Spot" Interchanges

BUDGET	Current	Forecast
Total Cost (\$ mil.)	\$590M*	\$2.2B*

Secured Funds: Measure R - \$590M
Unsecured Funds: \$1.6B

SCHEDULE	Current	Forecast
Construction Complete	2026	2026

- Multiple projects to be programmed with different schedules through 2030
- Completed Feasibility Study in 2012
- I-605/I-5 & I-605/SR-91 Project Study Reports initiated in April 2013
- Environmental Clearance in 2015

POTENTIAL RISKS:


- Funding of program
- Third Party implementation
- Scope Growth
- Utility relocation
- R/W Acquisition
- Hazardous waste

***Denotes current secure funding and not expected to cover Feasibility Study improvement needs. Project costs to be determined post Feasibility Study**

On target
Possible problem
Major issue

16

High Desert Corridor (Environmental)







BUDGET			SCHEDULE		
Total Cost (\$ mil.)	Current	Forecast	Environmental Document Complete	Current 2015	Forecast 2015
	\$65	\$65			
<p>Funds include: STIP (GF), Measure R, Measure I, and federal earmarks</p> <ul style="list-style-type: none"> • Scope includes Project Approval and Environmental Document (PA/ED) only 			Draft ED Circulation	2013	2014
			Public Hearing	2014	2014
			Final ED	2015	2015
			Record of Decision	2015	2015

POTENTIAL RISKS


- Funding for highway and rail components of the project is estimated at \$5B, which has yet to be identified
- Request to expand environmental clearance of ROW from 300' to 500' in the City of Palmdale will have impacts to schedule; staff working to determine the impacts

OPPORTUNITIES:

- Potential P3 Candidate


 On target
  Possible problem
  Major issue
 17

SR-710 North Study







BUDGET			SCHEDULE**		
Total Cost (\$ mil.)	Current	Forecast	Construction Complete	Current 2029	Forecast 2029
	\$780	\$2.6 - 5.4B*			
<p><u>Secured Funds:</u> Measure R - \$780M</p> <p><u>Unsecured Funds:</u> \$1.82B - \$4.62B</p> <p>Potential P3 Opportunity</p>			Alternatives Analysis	Fall 2012	Fall 2012
			Draft EIR/EIS	Spring 2014	Spring 2014
			Public Hearing	Spring 2014	Spring 2014
			Final EIR/EIS	Spring 2015	Spring 2015
			Record of Decision	Summer 2015	Summer 2015


POTENTIAL RISKS:

- Delay in agency reviews
- Additional analyses for mitigation and/or alternatives
- Unexpected late public comments on the DEIR/S
- Potential challenges to the FEIR/S ROD, etc...
- Funding shortfall
- Utility relocation
- Hazardous Waste
- Third Party Agreement

*Denotes a range of cost for several higher cost alternatives
 **Dependent on project delivery method


 On target
  Possible problem
  Major issue
 18

I-710 South



BUDGET			SCHEDULE		
Total Cost (\$ mil.)	Current	Forecast	Construction Complete	Current 2028	Forecast 2028
	\$395	\$3.5B-\$6.2B*	Re-circulated Draft EIR/EIS	2014	2015
			Public Hearing	2014	2015
			Final EIR/EIS	2015	2016
			Record of Decision	2015	2016
			Begin Construction	2020	2022

BUDGET
Total Cost (\$ mil.) **Current** **Forecast**
 \$395 \$3.5B-\$6.2B*

SCHEDULE
Construction Complete **Current 2028** **Forecast 2028**





Secured Funds: Measure R - \$395M
 Unsecured Funds: \$3.1B-5.8B* – TBD
 Potential P3 Opportunity

*Depending on Project Alternative


Multiple Early Action Study Projects with various schedules

POTENTIAL RISKS:

- Funding shortfall
- SCE Utility Relocation
- Army Corp of Engineers
- Los Angeles County Flood Control
- R/W Acquisition
- Other Utility relocation
- Hazardous Waste
- Third Party Agreements
- Zero-Emission Trucks availability

  On target  Possible problem  Major issue 19





I-710 Early Action Projects



BUDGET		SCHEDULE	
Total Cost (\$ mil.)	Current	Forecast	
	\$30.6	\$195	various (see below)

	#APPR. PROJECTS	BUDGET (000'S)	COMPLETION
Completed	0	\$ 000	N/A
Ongoing	1	\$10,400	2013
Future	6	\$20,200	2017
TOTAL	7	\$30,600	2017

PROGRAM SUMMARY:
 Measure R provides \$195 M for the next 30 years, \$30.6 Million has been programmed for the I-710 Early Action Projects by the Metro Board for FY's 2010-15. Ongoing is defined as projects with executed Funding Agreements. Future is defined as projects with first year's funding beyond 2013.

  On target  Possible problem  Major issue 20

Las Virgenes/Malibu COG Measure R Operational Improvements Program

BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$101.8	\$175

SCHEDULE

various (see below)

	#APPR. PROJECTS	BUDGET (000'S)	COMPLETION
Completed	0	\$ 000	N/A
Ongoing	12	\$37,600	2018
Future	<u>8</u>	<u>\$64,200</u>	2020
TOTAL	20	\$101,800	2020

PROGRAM SUMMARY:
 Measure R provides \$175.0 M over 30 years, \$101.8 Million has been programmed for the Subregion by the Metro Board for FY's 2010-20. Ongoing is defined as projects with executed Funding Agreements. Future is defined as projects with future phases of existing Projects or first years funding of a Project is beyond FY 2013. Metro Board approved project revisions at Oct. 2013 meeting.

On target
 Possible problem
 Major issue

21

Arroyo Verdugo COG Measure R Operational Improvements Program

BUDGET

	Current	Forecast
Total Cost (\$ mil.)	\$57	\$170

SCHEDULE

various (see below)

	#APPR. PROJECTS	BUDGET (000'S)	COMPLETION
Completed	1	\$ 700	N/A
Ongoing	15	\$29,063	2020
Future	<u>20</u>	<u>\$30,581</u>	2020
TOTAL	36	\$60,344	2020

PROGRAM SUMMARY:
 Measure R provides \$170.0 Million over 30 years of which \$60.3 Million has been programmed in the Subregion for FYs 2010-2020. Ongoing is defined as projects with executed Funding Agreements. Future is defined as projects with future phases of existing Projects or first years funding of a Project is beyond FY 2013.

On target
 Possible problem
 Major issue

22

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



BUDGET			SCHEDULE
Total Cost (\$ mil.)	Current \$192.1	Forecast \$906	various (see below)

	#APPR. PROJECTS	BUDGET (000'S)	COMPLETION
COG Admin/Development	N/A	\$ 13,375	2022
Contingency/Reserves	N/A	\$ 15,500	2019
Completed	6	\$ 5,927	2013
Ongoing	27	\$ 135,422	2022
Future	<u>17</u>	<u>\$ 65,469</u>	2022
TOTAL	50	\$ 235,693	2022

PROGRAM SUMMARY:

Measure R provides \$906.0 Million over 30 years of which \$235.7 Million has been programmed in the Subregion for FYs 2012-2020. Ongoing is defined as projects with executed Funding Agreements. Future is defined as projects with future phases of existing Projects or first years funding of a Project is beyond FY 2013.

