

Board Report

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

Agenda Number: 32.

CONSTRUCTION COMMITTEE NOVEMBER 16, 2017

SUBJECT: PROGRAM MANAGEMENT MAJOR PROJECT STATUS

REPORT

ACTION: RECEIVE ORAL REPORT

File #: 2017-0733, File Type: Oral Report / Presentation

RECOMMENDATION

RECEIVE oral report on the Major Project Status by the Chief Program Management Officer.

DISCUSSION

- A. Update report covering the month of November 2017 by the Chief Program Management Officer; and
- B. At the January 2017 meeting, the Board authorized a one-year pilot program authorizing the CEO to negotiate and execute project-related agreements, including contract modification(s) up to the authorized Life of Project budget, to streamline project management of the four (4) major transit corridor projects (Crenshaw/LAX, Regional Connector, Westside Purple Line Extension Section 1 and 2 projects). In addition, staff was directed to provide monthly reports, that would include any pending project-related agreements, change orders/contract modifications and any significant changes to contingency.

Pursuant to the Board motion, staff has developed and begun reporting on cost contingency and contract change activity starting in the February 2017 Monthly Update to the Construction Committee. This new report includes a project cost contingency drawdown curve and allows the Board to see project-related and change activity. This report can be found in Attachment A.

At the conclusion of the one-year pilot program in January 2018, staff will report back to the Board on the time saved as result of this pilot program, and any lessons learned, and recommendations for the Board review and further direction.

<u>ATTACHMENTS</u>

Attachment A - Program Management Major Project Status Report - November 2017

Prepared by:

- Master Schedule Julie Owen, DEO, Project Mgmt., (213)922-7313
- Crenshaw/LAX Charles Beauvoir, EO Project Mgmt., (213) 299-3095
- Regional Connector Gary Baker, EO Project Mgmt., (213) 893-7191
- Westside Purple Line Ext 1 James Cohen, EO Project Mgmt., (213) 922-7911
- Westside Purple Line Ext 2 Michael McKenna, EO Project Mgmt., (213) 312-3132
- Westside Purple Line Ext 3 Michael McKenna, EO Project Mgmt., (213) 312-3132
- Patsaouras Plaza Busway Station -Timothy Lindholm, EO Project Engr., (213) 922-7297
- Willowbrook/Rosa Park Station Timothy Lindholm, EO Project Engr., (213) 922-7297
- Blue Line Projects Androush Danielians, EO Project Engr (Interim)., (213) 922-7598
- **Presentation -** Yohana Jonathan, Departmental System Analyst, (213) 922-7592

Program Management Major Project Status Report

Presented By

Richard Clarke

Chief Program Management Officer



PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX	\rightarrow	\rightarrow	The remaining cost contingency is below 2% of the total project budget (\$38 million in contingency remains). Contractor is 19 days behind schedule and is required to mitigate schedule to maintain planned revenue service in October 2019.
Regional Connector	ОК	ОК	Project is proceeding consistent with schedule forecast and LOP budget as approved by the Board in January 2017.
Westside Purple Line Extension-Section 1	OK	OK	Project is 24% complete, no significant issues.
Westside Purple Line Extension-Section 2	OK	OK	Issued Notice to Proceed (NTP) to Tutor Perini/O&G a JV (TPOG) on April 26, 2017. Project is 4% complete with no significant issues.
Westside Purple Line Extension-Section 3	OK	OK	Requested entry into the Engineering Phase from the FTA in April 2017. Sent request for Letter of No Prejudice (LONP) for the tunnel contract to FTA on September 15, 2017.
Patsaouras Plaza	OK	\rightarrow	Schedule negotiations in progress regarding revised substantial completion date of November 2018.
Willowbrook/Rosa Parks Station	ОК	OK	Design activities progressed to 100% complete and in final reviews.

November 2017



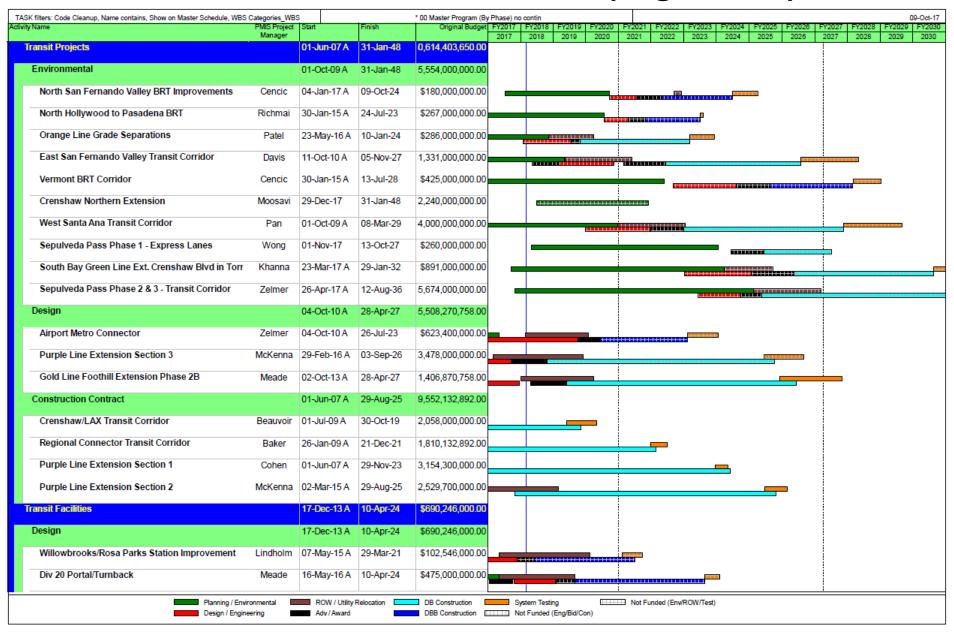


Possible problem

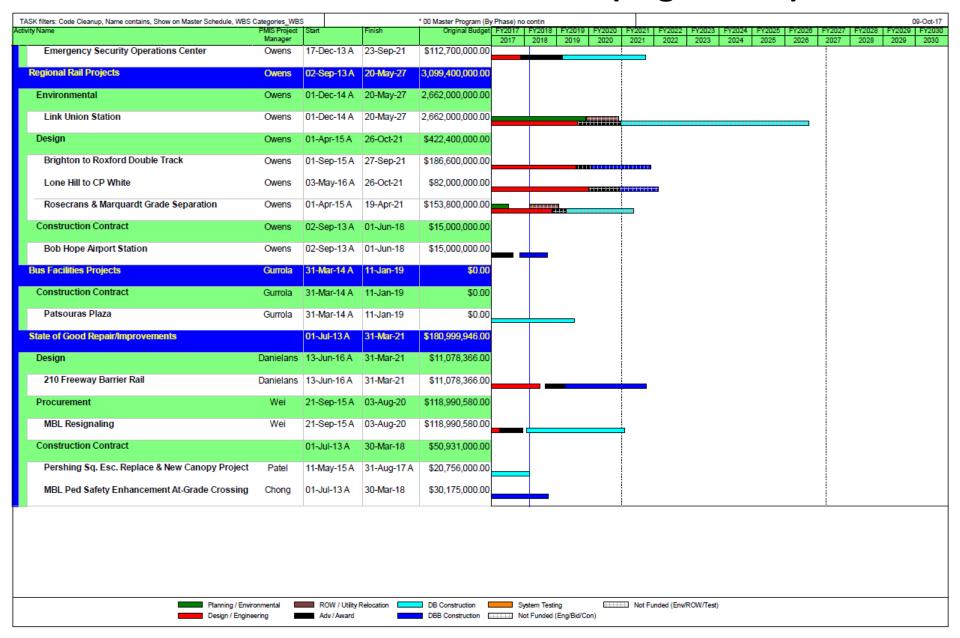




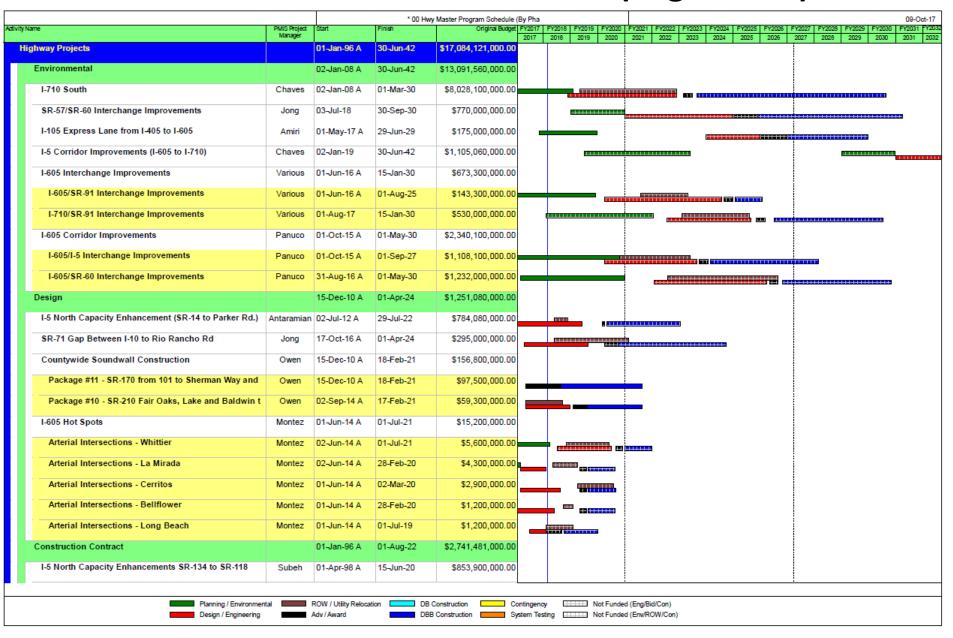
TRANSIT MASTER SCHEDULE (Page 1 of 2)



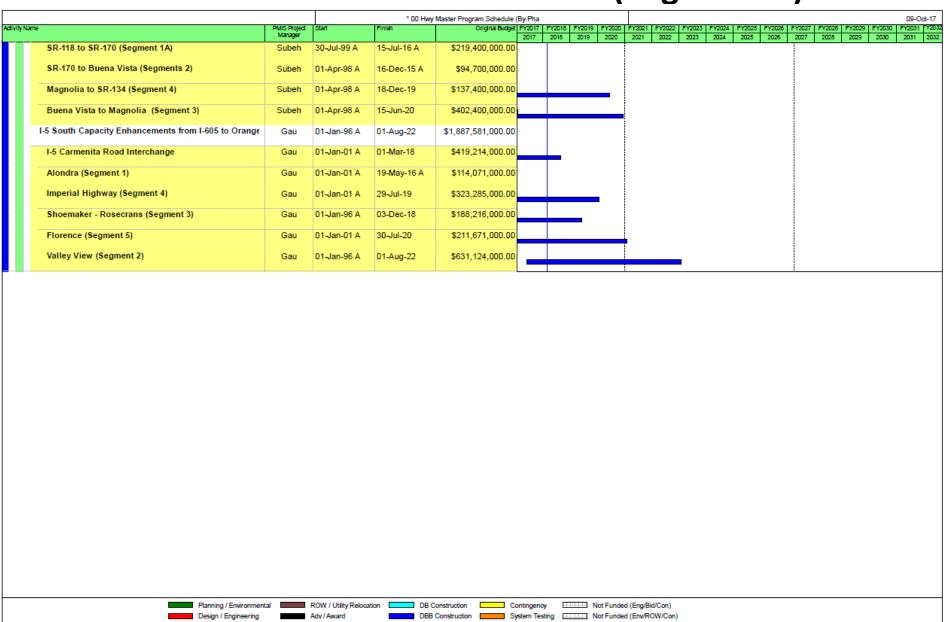
TRANSIT MASTER SCHEDULE (Page 2 of 2)



HIGHWAY MASTER SCHEDULE (Page 1 of 2)



HIGHWAY MASTER SCHEDULE (Page 2 of 2)



CRENSHAW/LAX TRANSIT PROJECT

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BUDGET

TOTAL COST

Current \$2,058M Forecast \$2,058M

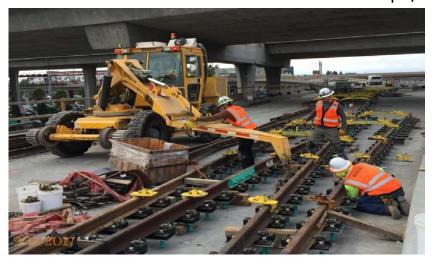
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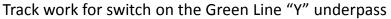
SCHEDULE

REVENUE OPERATION

Current Oct 2019 Forecast Oct 2019

- Overall Project Progress is 73% complete; main line contractor needs to mitigate 19 day delay
- Contractor continues critical track work installation along southern area of alignment
- Canopy steel is installed at Downtown Inglewood and Fairview Heights at-grade stations and started at Aviation/Century Station
- Advancing interior construction of walls and concourse platform for the three underground stations and commenced entrance and roof sections at Expo/Crenshaw Station







Installing components for platform deck at Hyde Park Station

November 2017





Possible problem





REGIONAL CONNECTOR TRANSIT PROJECT



BUDGET

TOTAL COST

Current \$1,810M **Forecast** \$1,810M

* Includes Board approved LOP plus finance costs.

- Overall Project Progress is 41 %
- Tunneling: Began the second bore and have mined successfully beneath the sensitive Japanese Village Plaza area
- Little Tokyo/Arts District Station: Under steady state until tunnel operations are completed
- Historic Broadway Station: Support of Excavation and utility support work continues
- Grand Av Arts/Bunker Hill Station: Work at concourse level and preparation for Tunnel Boring Machine (TBM) arrival continues
- Flower Street: Power relocations, support of excavation, pile installation, decking and excavation are ongoing

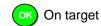






Pile installation on Flower Street







Possible problem





WESTSIDE PURPLE LINE EXTENSION – SECTION 1

BUDGET

TOTAL COST*

Current \$3.154M Forecast \$3,154M

* Includes Board approved LOP plus Finance costs.

SCHEDULE

REVENUE

OPERATION

Current

Oct 2024

Forecast Nov 2023

(FFGA)

- Overall Project Progress is 24% complete
- Sanitary sewer relocation started at the Wilshire/Western shaft area on the weekend of September 23, 2017. Support of Excavation (SOE) pile installation is anticipated to begin at the end of October 2017
- Excavation for the Wilshire/La Brea Station commenced on October 12, 2016 and continues beneath the deck panels. Station excavation is scheduled to complete by November 2017
- At the Wilshire/Fairfax Station, the hanging of utilities under the concrete deck panels is complete. Station excavation and the installation of walers and struts is on-going
- The Wilshire/La Cienega Station piling operation was completed on October 12, 2017. Street decking commenced on the weekend of October 6, 2017
- Tunnel Boring Machines (TBMs) are being prepared for delivery at the end of 2017. TBMs #1 & #2 have been accepted by the contractor. Tunneling is planned to start in 2018



Under Deck Excavation at Wilshire/La Brea Station



Wilshire/La Cienega Decking Operation

November 2017





Possible problem





WESTSIDE PURPLE LINE EXTENSION – SECTION 2

BUDGET

TOTAL COST*

Current \$2,530M Forecast \$2,530M

* Includes Board approved LOP plus Finance costs.

- Overall project progress is 4% complete
- Received 60% Design Package #1 (Utility/Civil Design at Launch Box) in August 2017 and returned it to TPOG on September 18, 2017, Approved As Noted (AAN)
- Received submittal of 60% Design Package #2 (Remaining Utility Conflicts) in September 2017 and returned it to TPOG on October 10, 2017, AAN
- Draft Supplemental Environmental Impact Statement (SEIS):
 Anticipate publication of Notice of Availability (NOA) in
 November 2017
- Century City Constellation: Cable pulling and splicing work is anticipated to complete in November 2017. Southern California Gas (SCG) and AT&T utility relocations are underway
- Wilshire/Rodeo: Southern California Edison (SCE) began relocation of power lines in September 2017. SCG and AT&T to follow once SCE relocations are complete
- Negotiations with the City of Beverly Hills for a Memorandum of Agreement (MOA) governing utility work began in March 2017 and is continuing

SCHEDULE

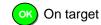
Current
REVENUE Dec 2026
OPERATION (FFGA)

Forecast Aug 2025



LADWP power relocation work in Century City

November 2017





Possible problem





WESTSIDE PURPLE LINE EXTENSION – SECTION 3

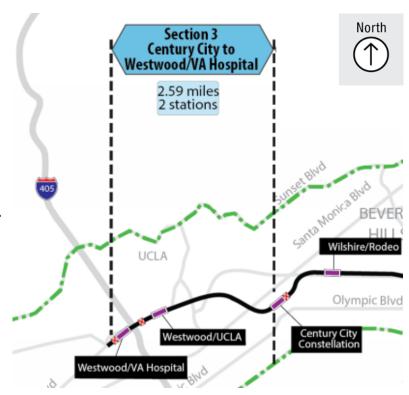
SOLUTION BUDGET

Current TOTAL COST TBD

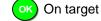
Forecast \$3,478M

Current Forecast
REVENUE TBD March 2026
OPERATION

- Request for Letter of No Prejudice (LONP) for the Tunnel Contract was submitted to the FTA on September 11, 2017.
- Construction Management Support Services (CMSS) -Recommendation for award is anticipated in October 2017 and subsequent Notice to Proceed (NTP) in November 2017.
- C1151 Tunnel Contract Technical proposals are due on November 13, 2017 and price proposals on January 29, 2018.
 Recommendation for award is anticipated in March 2018.
- C1152 Stations, Trackwork and Systems Contract Request for Qualifications (RFQ)/Request for Proposals (RFP) was issued on September 15, 2017.
- C1153 Advanced Utility Relocations (AUR) Contract Notice of Intent (NOI) to award was issued on October 2, 2017, and subsequent NTP is anticipated in November 2017.



November 2017





Possible problem





PATSAOURAS PLAZA BUSWAY STATION



Current TOTAL COST \$39.7M

Forecast \$39.7M



SCHEDULE

SUBSTANTIAL COMPLETION

Current Nov 2018 Forecast Nov 2018

- All bridge widening foundations complete. Pedestrian overcrossing and elevator foundations are ongoing
- Falsework on left and right sides ongoing
- Installation of bridge soffit, stem panels, post-tensioning, and deck drains and rebar ongoing
- Electrical and communication relocations
- Vignes Street on/off-ramp intermittent non-peak closures ongoing
- Center Street nighttime closures pending City approval
- Schedule negotiations with Executive Management in progress including revised baseline and TIA





Aerial view of site

Falsework

November 2017





Possible problem





WILLOWBROOK/ROSA PARKS STATION

BUDGET

TOTAL COST N/A

Forecast \$92.4M



SUBSTANTIAL COMPLETION

Current Dec 2020

Forecast Dec 2020

- Early Start Phase (Project E) in bid period scheduled to break ground December 2017
- Phase A and C at 100% design completion. Phase A in review by County, Phase C with Caltrans
- Pedestrian grade crossing documents submitted to Union Pacific (UP) and Public Utilities Commission PUC
- Phase A and C invitation for bids scheduled for late 2017

Current

• In early coordination with Metro Operations on implementation of this and other Blue Line projects



South Platform Improvements

Central Plaza & Bus Bays

Main Plaza

November 2017





Possible problem







METRO BLUE LINE PROJECTS

Project Name

- Station Refurbishment
- **Pedestrian Gates**
- City of Long Beach Fare Gates Design (PE)
- Blue Line Rehabilitation (OCS, Signals, Div. 11)

Budget	Percent Completed	Forecast Completion	Status
\$30.4M \$30.2M	100% 85%	Completed March 2018	OK
\$8M*	95% (PE)	Aug 2019	OK

5%

Total: \$187.6M

\$119M*







Aug 2019

April 2021

*Budget Estimate

November 2017





Possible problem





Crenshaw/LAX Transit Project

Change Activity

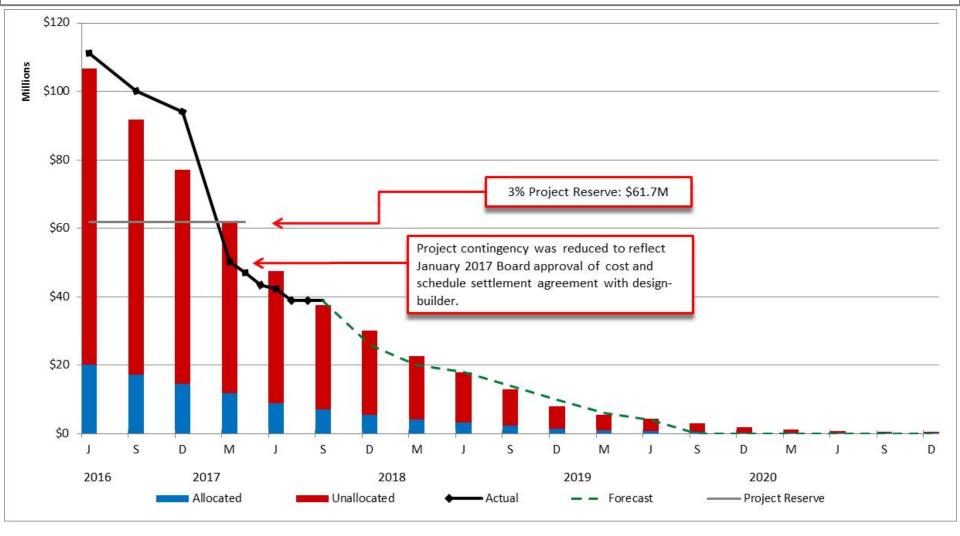


Change Notice #	Description	Number of Mod/ Change Orders		Cost Value	
TOTAL	VALUE OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS	316	\$	75,251,709	
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST			\$	1,313,784	
DESIGN BUILD - CON	TRACT C0988				
MOD 00270	Unit Rates for Incidental Const Work		Les	s than \$1 million	
MOD 00290	Asbestos Cement Pipe 63rd & Tesoro		Les	s than \$1 million	
MOD 00312	Centinela and Eucalyptus Crossing Re		Les	s than \$3 million	
MOD 00315	Addl Mod to Ped Light Fix-Slauson		Les	s than \$1 million	
MOD 00316	Final Dsgn Black Diamond Vault Crens		Les	s than \$1 million	
MOD 00317	Drive Test To Assess Radio Received		Les	s than \$1 million	
MOD 00319	Claim 118 Resolution - Qwest Line		Les	s than \$1 million	
MOD 00234	LADOT Fiber Optic Cable Betterment		Les	s than \$1 million	
MOD 00304	BkChrg Metro pymnts to COLA TCO			ess than \$2 million	
MOD 00318	Install Black Street Lights & Signal			_ess than \$1 million	
MOD 00320	Clean Agent Systems in the 3 TC& C		Les	s than \$1 million	
CO 00046.5	Underground Conduit & Cable			s than \$1 million	
CO 00129	Elimination Crosver Sta 56+57.50		Credit Less than \$1 million		
	TOTAL MODIFICATIONS AND CHANGE ORDERS	329	\$	76,565,493	
PROFESSIONAL SERV					
Design Support Servi	ces During Construction - CONTRACT E0117				
	TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS	42	\$	59,217,720	
	TOTAL PENDING MODIFICATIONS	0	\$	-	
	TOTAL MODIFICATIONS	42	\$	59,217,720	
Construction Manage	ment Support Services - CONTRACT MC069				
	TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS	18	\$	69,484,775	
	TOTAL PENDING MODIFICATIONS	0	\$-	33, 13 1,110	
	TOTAL MODIFICATIONS	18	\$	69,484,775	

Crenshaw/LAX Transit Project

Project Cost Contingency Drawdown





Regional ConnectorChange Activity

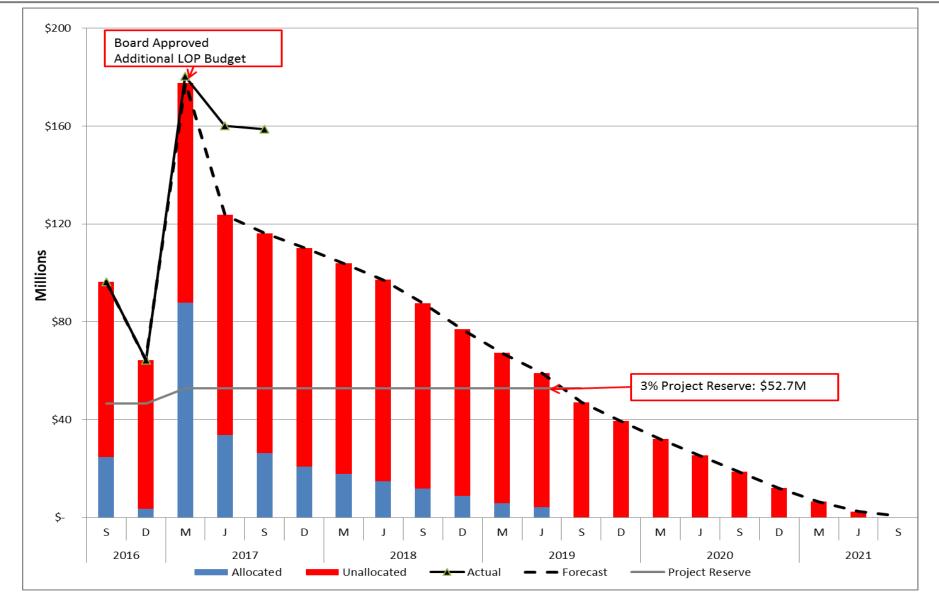


Change		Number of Mod/	$\overline{}$				
Change Notice #	Description	Change Orders		Cost Value			
DESIGN BUILD CONTRACT (C0980)							
	TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:	100	\$	149,806,743			
	TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:	34	\$	69,077,016			
	1st/Alameda Bumpout (Construction)			Less Than \$1 Million			
TBD	Flower Street Modification: future 2-way Traffic /Bumpout/Ped Lighting (Construction Only)			Between \$1 and \$5 Million			
TBD	Revise Metro Rail Station Signage and Incorporate Metro Underground Station Signage (Construction)			Less Than \$1 Million			
TBD	Add Wye Junction Fan Plant - Construction			Between \$10 and \$15 Million			
TBD	Fully Coupled Dynamic Analysis for SEM Cavern			Less Than \$1 Million			
50.0	Revisions to TPIS Requirements -Construction			Less Than \$1 Million			
68.0	Flower Street Zanja Additional Potholing			Less Than \$1 Million			
86.0	Flower Maintenance of Traffic (MOT) West Piles			Less Than \$1 Million			
87.0	Support Veolia 24" Chilled Water Pipes at 2nd/Hope Station			Less Than \$1 Million			
99.0	Option 3 Pedestrian Bridge Revisions / Broad Coordination (Construction)			Between \$1 and \$5 Million			
103.0	1st/Central Station HMI Units for Escalator Controllers			Less Than \$1 Million			
TBD	Add One Add 'I VHF Radio Operational Channel - Construction			Less Than \$1 Million			
106.0	Revisions to Metro Optical Network Switch			Less Than \$1 Million			
TBD	Revise Communication Radio System SOW (Construction)			Less Than \$1 Million			
TBD	Add Perforated Metal Dropped Ceiling at 2nd/Hope Station Plaza - Construction			Less Than \$1 Million			
107.0	Delays and schedule mitigation measures, electrical and water utility relocation costs, add 'I fire life safety engineering and other design and construction changes			More than \$15 Million			
111.0	Spray-on Acoustical Finishes Additional Quantities			Between \$1 and \$5 Million			
TBD	Revised Emergency Walkways at Curves (30" to 35") - Construction			Less Than \$1 Million			
121.0	Utility Conflicts during Decking at 4th & Flower St.			Less Than \$1 Million			
122.0	Asbestos Abatement on Flower St. thru May 2017			Less Than \$1 Million			
TBD	Insurance Claim			Less Than \$1 Million			
130.00	10" Sewer Bypass at 1st/Alameda Backfilling Broken Compensation Grouting Pipes at JVP			Less Than \$1 Million			
131.00 132.0	TBM Acceleration (24/7) to Flower St.			Less Than \$1 Million Less Than \$1 Million			
132.0	Deleting OCS Work at 7th Metro (CREDIT)			Less Than \$1 Million			
134.0	2nd/Broadway - LA Times Communication Line Realignment Due to Differing Site Conditions			Less Than \$1 Million			
134.0	TBM Cutterhead Repairs Due to DSC			Less Than \$1 Million			
137.0	Revise SOE and Train Control and Mechanical Rooms (Charles Dunn SOE DSC)			Less Than \$1 Million			
138.0	LADWP Switch Room Requirements for 1st and Central Station - Design Only			Less Than \$1 Million			
TBD	TBM failure - delays and repair			Between \$1 and \$5 Million			
TBD	Add 'I Commonwealth Agreement (noise barrier)			Less Than \$1 Million			
142.0	Labor to Replace TBM Screws 1, 2 &3			Less Than \$1 Million			
143.0	Three-Shift Tunnel Boring Machine (TBM) Mining Operation			Less Than \$1 Million			
144.00	Add 'I Gas Monitoring/Potential Gassy w/Special Conditions			Between \$1 and \$5 Million			
	TOTAL MODIFICATIONS AND CHANGE ORDERS	134	\$	218,883,759			
DDUEESSION	NAL SERVICES CONTRACT						
	ort Services During Construction (E0119)		_				
Design Suppt	TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS	12	\$	44,629,810			
	TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS TOTAL PENDING MODIFICATIONS ROUGH ORDER OF MAGNITUDE COST	0	\$	44,029,810			
	TOTAL PENDING MODIFICATIONS ROUGH ORDER OF MAGNITUDE COST	0 12	\$	44,629,810			
Construction		IZ	3	44,029,810			
Construction	Construction Management Support Services (MC070)						
	TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS	5	\$	35,630,672			
	TOTAL PENDING MODIFICATIONS ROUGH ORDER OF MAGNITUDE COST	0	\$	- 25 (20 (70			
	TOTAL MODIFICATIONS	5	\$	35,630,672			
				17			

Regional Connector

Project Cost Contingency Drawdown





Westside Purple Line Extension – Section 1 Change Activity



Change Notice #	Description	Number of Mod/ Change Orders	Cost Value
-	TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:	144	\$ 29,887,178
	TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:	46	More than \$15M
DESIGN/BUILD	CONTRACT C1045	36	
CN-26	Betterment City of Beverly Hills - Median Reconstruction at San Vicente Blvd		Less Than \$1 Million
CN-32	Pin Station (Identifier) Changes		Less Than \$1 Million
CN-42.3	Radio Subsystem Redundancy		Between \$1M - \$5M
CN-43.2	lsolate Track Circuits at Wilshire/Western		Less Than \$1 Million
CN-47.2	Stainless Steel Enclosure for TVM and PTEL		Less Than \$1 Million
CN-56	Implement City of Beverly Hills Memorandum of Agreement (MOA)		Between \$10M - \$15M
CN-63	La Brea- Additional Instrumentation Requested by BOE		Less Than \$1 Million
CN-64.1	Additional SOE Design Work - La Brea Station		Less Than \$1 Million
CN-65.1	Additional SOE Design Work for Fairfax Station Due to Deviation Request for Building Settlement		Less Than \$1 Million
CN-66	Additional Dewatering Treatment & Discharge Costs at La Brea		Less Than \$1 Million
CN-67	Tactile Guidance (Construction and Plaza Material Change)		Less Than \$1 Million
CN-68	Increased Ventilation of Station Ancillary Rooms		Less Than \$1 Million
CN-72	Stations - Art Related Changes		Less Than \$1 Million
CN-76	Additional SOE Design Work for La Cienega Station Due to Deviation Request for Building Settlement		Less Than \$1 Million
CN-77	Additional Interpretation for Building Settlement		Less Than \$1 Million
CN-78	Fairfax - DWP Ductbank Conflict with Deck Beams		Less Than \$1 Million
CN-79	Wilshire/Western - Permit Approval and Inspection for Access Shaft Stand by Generator Enclosure Aesthetic Improvements at La Cienega		Less Than \$1 Million
CN-80.1 CN-81	Stand by Generator Enclosure Aestrietic improvements at La Cienega Additional Instrumentation (Project Wide) as Required by LABOE and STS EOR		Less Than \$1 Million Less Than \$1 Million
CN-82	Additional Geotechnical Instrumentation at Western		Less Than \$1 Million
CN-83	Additional Dewatering Treatment & Discharge Impacts at Western Additional Dewatering Treatment & Discharge Impacts at Western		Less Than \$1 Million
CN-84	Additional SOE Design Work for the Western Shaft Due to Deviation Request for Building Settlement		Less Than \$1 Million
CN-85	La Brea Utility hanging Changes for Sewer and Storm Drains		Less Than \$1 Million
CN-87	La Brea - Bracing Impacts Due to DWP Ductbank at La Brea Ave (ECI-004)		Less Than \$1 Million
CN-88	TCE Slab Demolition and Removal at the Western Shaft		Less Than \$1 Million
CN-89	La Cienega-Removal of AT&T Abandoned Cables		Less Than \$1 Million
CN-91	La Brea-DWP Conflict and Impacts to Cap Beam Walers 28 & 29		Less Than \$1 Million
CN-92	La Cienega - Impacts from Delayed SCE Lines/MH Abandonment		Less Than \$1 Million
CN-93	La Brea - Center Access Shaft - Design and Construction Costs		Less Than \$1 Million
CN-94	Fairfax - Negative Voltage-to-Rail Devise		Less Than \$1 Million
TBD	Fairfax - Piling Obstructions, Conflicts, Delays		Less Than \$1 Million
TBD	Station Address Signage (for Fire Dept Use)		Less Than \$1 Million
TBD	La Cienega - Rubberized Asphalt		Less Than \$1 Million
TBD	La Cienega - N-S SCE Line at Hamilton Dr. to Remain		Less Than \$1 Million
TBD	La Cienega - Piling Hours		Less Than \$1 Million
TBD	Crossover Exit Doors at Stations (La Brea, La Cienega)		Less Than \$1 Million
DESIGN/BUILD	CONTRACT C1078	10	
CN-11	Schedule Impacts Due to Third Party		Less Than \$1 Million
CN-12	Betterment - Motorized Sliding Gate for the City of LA		Less Than \$1 Million
CN-13	AST Leak Detection and Remote Lubrication Fill/Extract Station		Less Than \$1 Million
CN-16	Betterment: Install Street Lights, Trees and Drip Irrigation for the City of LA		Less Than \$1 Million
CN-17	Support of Building Art Work		Less Than \$1 Million
CN-18	On-Site LIDs		Less Than \$1 Million
CN-19	Storm Drain - Differing Site Conditions		Less Than \$1 Million
CN-20	Hazardous Materials - Chalmers Pan Handle		Less Than \$1 Million
CN-21	Betterment: 6th Street Viaduct - Site Re-Grading, Ornamental Fenc, Etc.		Less Than \$1 Million
CN-24	UPDATED IT STANDARDS ON DATA DROPS AND OUTLETS		Less Than \$1 Million
TBD	TOTAL MODIFICATIONS AND CHANGE ORDERS	190	

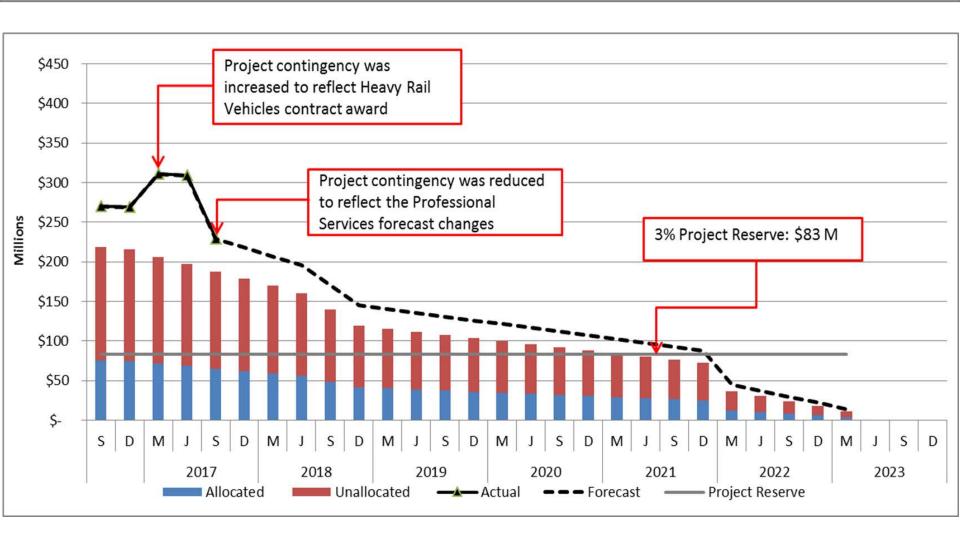
Design Support Services During Construction - CONTRACT PS43502000		
TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS:	22	\$ 92,608,453
TOTAL PENDING MODIFICATIONS	0	
TOTAL MODIFICATIONS	22	\$ 92,608,453
Construction Management Support Services - CONTRACT MC071		
TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS:	4	\$ 70,297,456
TOTAL PENDING MODIFICATIONS	0	
TOTAL PENDING MODIFICATIONS	- 0	
TOTAL PENDING MODIFICATIONS TOTAL MODIFICATIONS	4	\$ 70,297,456
	4	\$ 70,297,456

Between \$1M - \$5M

Westside Purple Line Extension – Section 1

Project Cost Contingency Drawdown





Number of

Westside Purple Line Extension – Section 2

Change Activity



Change Notice #	Description	Mod/ Change Orders	Cost Value		
TOTAL	1	\$ -			
_	TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:				
DESIGN/BUILD CON	TRACT C1120				
CN-1.1	Century City Constellation Station West Ancillary & OPE Reconfiguration (Design)		Less Than \$1 Million		
TBD	Century City Constellation Station West Ancillary & OPE Reconfiguration (Construction)		Less Than \$1 Million		
CN-2.1	Geotechnical and Environmental Investigation Program		Less Than \$1 Million		
CN-3	Century City Constellation Station: Main Entrance (Design)		Less Than \$1 Million		
TBD	Century City Constellation Station: Main Entrance (Construction)		More Than \$15 Million		
CN-4.1	Third Party Utility Final Design		Less Than \$1 Million		
TBD	AT&T Building Demolition		Between \$1M - \$5 M		
CN-6.1	Furnish Cradles for LADWP Power Vaults		Less Than \$1 Million		
CN-7	Delete Four (4) boreholes at Cross-Passages		Less Than \$1 Million		
CN-8	Additional Abatement at ACE Gallery		Less Than \$1 Million		
CN-9	Traffic Control at WRS Station		Less Than \$1 Million		
CN-10	Train Headway Revisions		Less Than \$1 Million		
	TOTAL MODIFICATIONS AND CHANGE ORDERS	13	\$ -		
PROFESSIONAL SE	RVICES CONTRACT				
Design Support Service	ces During Construction				
	TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS	0	\$ -		
	TOTAL PENDING MODIFICATIONS	0	\$ -		
	TOTAL MODIFICATIONS	0	\$ -		
	TOTAL MODILIONTON	<u> </u>	-		
Construction Manager	ment Support Services				
00	TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS	0	\$ -		
	TOTAL PENDING MODIFICATIONS	0	\$ -		
			<u> </u>		
	TOTAL MODIFICATIONS	0	\$ -		
	TOTAL MODILIOATION	<u> </u>	*		

City of Beverly Hills Advanced Utility Relocation (AUR) Memorandum of Agreement

OTHER - THIRD PARTY AGREEMENTS

TBD

Westside Purple Line Extension – Section 2

Project Cost Contingency Drawdown



