



Board Report

File #: 2017-0586, File Type: Oral Report / Presentation

Agenda Number: 35.

CONSTRUCTION COMMITTEE SEPTEMBER 21, 2017

SUBJECT: PROGRAM MANAGEMENT MAJOR PROJECT STATUS REPORT

RECOMMENDATION

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

DISCUSSION

- A. Update report covering the month of September 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.

ATTACHMENTS

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

Prepared by:

- **Crenshaw/LAX** - Charles Beauvoir, Deputy Executive Officer, Project Mgmt., (213) 299-3095

- **Regional Connector** - Gary Baker, Deputy Executive Officer, Project Mgmt., (213) 893-7191
- **Westside Purple Line Ext 1** - James Cohen, DEO 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, DEO Project Mgmt.(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















September 2017

Construction Committee

Los Angeles County Metropolitan Transportation Authority



PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			The remaining cost contingency is below 2% of total project budget (\$38 million in contingency remains). Contractor is 11 days behind schedule and is required to mitigate schedule to maintain planned revenue service in October 2019.
Regional Connector			Project is proceeding consistent with schedule forecast and revised LOP budget as approved by the Board in January 2017.
Westside Purple Line Extension-Section 1			Project is 22% complete, no significant issues.
Westside Purple Line Extension-Section 2			Notice to Proceed for the Design/Build Contract C1120 was issued on April 26, 2017.
Westside Purple Line Extension-Section 3			Entry into the Engineering Phase was requested of the FTA in April 2017.
Patsaouras Plaza			Schedule negotiations in progress regarding revised substantial completion date of November 2018.
Willowbrook/Rosa Parks Station			Design activities progressed to 100% complete and in final reviews.

September 2017



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 2

TRANSIT MASTER SCHEDULE (Page 1 of 2)

Activity Name	PMIS Project Manager	Start	Finish	Original Budget	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Transit Projects																		
Environmental																		
North San Fernando Valley BRT Improvements	Cencic	4-Jan-2017 A	23-Feb-2024	\$180,000,000.00														
North Hollywood to Pasadena BRT	Richmai	30-Jan-2015 A	7-Jun-2023	\$267,000,000.00														
Orange Line Grade Separations	Patel	23-May-2016 A	10-Jan-2024	\$286,000,000.00														
East San Fernando Valley Transit Corridor	Davis	11-Oct-2010 A	5-Nov-2027	\$1,331,000,000.00														
Vermont BRT Corridor	Cencic	30-Jan-2015 A	24-Apr-2028	\$425,000,000.00														
Crenshaw Northern Extension	Moosavi	29-Sep-2017	22-Jan-2048	\$2,240,000,000.00														
West Santa Ana Transit Corridor	Pan	1-Oct-2009 A	29-Aug-2028	\$4,000,000,000.00														
Sepulveda Pass Phase 1 - Express Lanes	Wong	31-Jul-2017	12-Aug-2027	\$260,000,000.00														
South Bay Green Line Ext. Crenshaw Blvd in Torr	Khanna	23-Mar-2017 A	29-Jan-2032	\$891,000,000.00														
Sepulveda Pass Phase 2 & 3 - Transit Corridor	Zelmer	26-Apr-2017 A	17-Jul-2035	\$5,674,000,000.00														
Eastside Transit Corridor Phase 2 (1 Align)	Liu	1-Mar-2007 A	6-Apr-2035	\$3,000,000,000.00														
Design																		
Airport Metro Connector	Zelmer	4-Oct-2010 A	3-Jul-2023	\$623,400,000.00														
Purple Line Extension Section 3	McKenna	29-Feb-2016 A	3-Sep-2026	\$3,478,000,000.00														
Gold Line Foothill Extension Phase 2B	Meade	2-Oct-2013 A	28-Apr-2027	\$1,406,870,758.00														
Construction Contract																		
Crenshaw/LAX Transit Corridor	Beauvoir	1-Jul-2009 A	30-Oct-2019	\$2,058,000,000.00														
Regional Connector Transit Corridor	Baker	26-Jan-2009 A	24-Feb-2023	\$1,810,132,892.00														
Purple Line Extension Section 1	Cohen	1-Jun-2007 A	31-Oct-2024	\$3,154,300,000.00														
Purple Line Extension Section 2	McKenna	2-Mar-2015 A	31-Dec-2026	\$2,529,700,000.00														
Transit Facilities																		
Design																		
Willowbrooks/Rosa Parks Station Improvement	Lindholm	7-May-2015 A	3-Jun-2021	\$102,546,000.00														



TRANSIT MASTER SCHEDULE (Page 2 of 2)

Activity Name	PMIS Project Manager	Start	Finish	Original Budget	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Div 20 Portal/Turnback	Meade	16-May-2016 A	10-Apr-2024	\$475,000,000.00														
Emergency Security Operations Center	Owens	17-Dec-2013 A	23-Sep-2021	\$112,700,000.00														
Regional Rail Projects	Owens	2-Sep-2013 A	17-Jun-2027	\$3,099,400,000.00														
Environmental	Owens	1-Dec-2014 A	17-Jun-2027	\$2,662,000,000.00														
Link Union Station	Owens	1-Dec-2014 A	17-Jun-2027	\$2,662,000,000.00														
Design	Owens	1-Apr-2015 A	26-Oct-2021	\$422,400,000.00														
Brighton to Roxford Double Track	Owens	1-Sep-2015 A	23-Aug-2021	\$186,600,000.00														
Lone Hill to CP White	Owens	3-May-2016 A	26-Oct-2021	\$82,000,000.00														
Rosecrans & Marquardt Grade Separation	Owens	1-Apr-2015 A	11-Dec-2020	\$153,800,000.00														
Construction Contract	Owens	2-Sep-2013 A	1-Jun-2018	\$15,000,000.00														
Bob Hope Airport Station	Owens	2-Sep-2013 A	1-Jun-2018	\$15,000,000.00														
Bus Facilities Projects	Gurrola	31-Mar-2014 A	28-Feb-2019	\$0.00														
Construction Contract	Gurrola	31-Mar-2014 A	28-Feb-2019	\$0.00														
Patsouras Plaza	Gurrola	31-Mar-2014 A	28-Feb-2019	\$0.00														
State of Good Repair/Improvements		1-Jul-2013 A	3-Aug-2020	\$180,999,946.00														
Design	Danielans	13-Jun-2016 A	31-Mar-2020	\$11,078,366.00														
210 Freeway Barrier Rail	Danielans	13-Jun-2016 A	31-Mar-2020	\$11,078,366.00														
Procurement	Wei	21-Sep-2015 A	3-Aug-2020	\$118,990,580.00														
MBL Resignaling	Wei	21-Sep-2015 A	3-Aug-2020	\$118,990,580.00														
Construction Contract		1-Jul-2013 A	31-Aug-2018	\$50,931,000.00														
Pershing Sq. Esc. Replace & New Canopy Project	Patel	11-May-2015 A	31-Aug-2018	\$20,756,000.00														
MBL Ped Safety Enhancement At-Grade Crossing	Chong	1-Jul-2013 A	29-Dec-2017	\$30,175,000.00														

■ Planning / Environmental
 ■ ROW / Utility Relocation
 ■ DB Construction
 ■ System Testing
 Not Funded (Enw/ROW/Test)

■ Design / Engineering
 ■ Adv / Award
 ■ DBB Construction
 Not Funded (Eng/Bid/Con)

HIGHWAY MASTER SCHEDULE (Page 1 of 2)

Activity Name	PMIS Project Manager	Start	Finish	Original Budget	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Highway Projects		1-Jan-1996 A	30-Jun-2042	\$29,275,621,000.00													
Environmental		2-Jan-2008 A	30-Jun-2042	\$25,242,560,000.00													
SR-138 Corridor Improvement Project	Ansari	1-Apr-2013 A	2-Oct-2025	\$880,000,000.00													
High Desert Corridor	Panuco	10-Sep-2010 A	20-Jun-2016 A	\$11,451,000,000.00													
I-710 South	Chaves	2-Jan-2008 A	1-Mar-2030	\$8,023,100,000.00													
SR-57/SR-60 Interchange Improvements	Jong	3-Jul-2018	30-Sep-2030	\$770,000,000.00													
I-5 Corridor Improvements (I-605 to I-710)	Chaves	2-Jul-2018	30-Jun-2042	\$1,105,060,000.00													
I-605 Interchange Improvements	Various	1-Jun-2016 A	15-Jan-2030	\$673,300,000.00													
I-605/SR-91 Interchange Improvements	Various	1-Jun-2016 A	1-Aug-2025	\$143,300,000.00													
I-710/SR-91 Interchange Improvements	Various	1-Aug-2017	15-Jan-2030	\$530,000,000.00													
I-605 Corridor Improvements	Panuco	1-Oct-2015 A	1-May-2030	\$2,340,100,000.00													
I-605/I-5 Interchange Improvements	Panuco	1-Oct-2015 A	1-Sep-2027	\$1,108,100,000.00													
I-605/SR-60 Interchange Improvements	Panuco	31-Aug-2016 A	1-May-2030	\$1,232,000,000.00													
Design		15-Dec-2010 A	1-Apr-2024	\$1,291,580,000.00													
I-710 Early Action Projects	Delgadillo	1-Dec-2011 A	1-Jun-2020	\$60,200,000.00													
I-5 North Capacity Enhancement (SR-14 to Parker Rd.)	Ogunrinde	2-Jul-2012 A	29-Jul-2022	\$784,080,000.00													
SR-71 Gap Between I-10 to SR-60	Jong	1-Jul-2012 A	1-Apr-2024	\$275,000,000.00													
Countywide Soundwall Construction	Owen	15-Dec-2010 A	18-Feb-2021	\$156,800,000.00													
Package #11 - SR-170 from 101 to Sherman Way and I-405	Owen	15-Dec-2010 A	18-Feb-2021	\$97,500,000.00													
Package #10 - SR-210 Fair Oaks, Lake and Baldwin to Santa Anita	Owen	2-Sep-2014 A	17-Feb-2021	\$59,300,000.00													
I-605 Hot Spots	Montez	1-Jun-2014 A	1-Jul-2021	\$15,500,000.00													
Arterial Intersections - Whittier	Montez	2-Jun-2014 A	1-Jul-2021	\$5,600,000.00													
Arterial Intersections - La Mirada	Montez	2-Jun-2014 A	28-Feb-2020	\$4,300,000.00													
Arterial Intersections - Cerritos	Montez	1-Jun-2014 A	2-Mar-2020	\$2,900,000.00													
Arterial Intersections - Bellflower	Montez	1-Jun-2014 A	28-Feb-2020	\$1,200,000.00													
Arterial Intersections - Long Beach	Montez	1-Jun-2014 A	1-Jul-2019	\$1,500,000.00													



HIGHWAY MASTER SCHEDULE (Page 2 of 2)

Activity Name	PMIS Project Manager	Start	Finish	Original Budget	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Construction Contract		1-Jan-1996 A	1-Aug-2022	\$2,741,481,000.00													
I-5 North Capacity Enhancements SR-134 to SR-118	Subeh	1-Apr-1998 A	15-Jun-2020	\$853,900,000.00													
SR-118 to SR-170 (Segment 1A)	Subeh	30-Jul-1999 A	15-Jul-2016 A	\$219,400,000.00													
SR-170 to Buena Vista (Segments 2)	Subeh	1-Apr-1998 A	16-Dec-2015 A	\$94,700,000.00													
Magnolia to SR-134 (Segment 4)	Subeh	1-Apr-1998 A	18-Dec-2019	\$137,400,000.00													
Buena Vista to Magnolia (Segment 3)	Subeh	1-Apr-1998 A	15-Jun-2020	\$402,400,000.00													
I-5 South Capacity Enhancements from I-605 to Orange County Line	Gau	1-Jan-1996 A	1-Aug-2022	\$1,887,581,000.00													
I-5 Carmenita Road Interchange	Gau	1-Jan-2001 A	1-Mar-2018	\$419,214,000.00													
Alondra (Segment 1)	Gau	1-Jan-2001 A	19-May-2016 A	\$114,071,000.00													
Imperial Highway (Segment 4)	Gau	1-Jan-2001 A	1-Apr-2019	\$323,285,000.00													
Shoemaker - Rosecrans (Segment 3)	Gau	1-Jan-1996 A	3-Dec-2018	\$188,216,000.00													
Florence (Segment 5)	Gau	1-Jan-2001 A	30-Jul-2020	\$211,671,000.00													
Valley View (Segment 2)	Gau	1-Jan-1996 A	1-Aug-2022	\$631,124,000.00													

 Planning / Environmental	 ROW / Utility Relocation	 DB Construction	 Contingency	 Not Funded (Eng/Bid/Con)
 Design / Engineering	 Adv / Award	 DBB Construction	 System Testing	 Not Funded (Enw/ROW/Con)

CRENSHAW/LAX TRANSIT PROJECT

◆ BUDGET		
	Current	Forecast
TOTAL COST	\$2,058M	\$2,058M

◆ SCHEDULE		
	Current	Forecast
REVENUE OPERATION	Oct 2019	Oct 2019

- Overall Project Progress is 70% complete; main line contractor needs to mitigate 11 day delay.
- Contractor continues trackwork installation along southern area of alignment.
- Successful lane closures on the I-405 freeway to remove the falsework for the new LRT bridge.
- Established entire 8.5 mile right-of-way with traffic switch on Crenshaw Blvd in Park Mesa Heights area.
- Southwestern Yard contractor is on schedule working on main shop, other facilities, and track areas.



Installation of formwork for UG#3 walls south of Hyde Park Blvd.



Southwestern Yard steel installation for main shop.

September 2017



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 7

REGIONAL CONNECTOR TRANSIT CORRIDOR

OK BUDGET		
	Current	Forecast
TOTAL COST	\$1,810M	\$1,810M

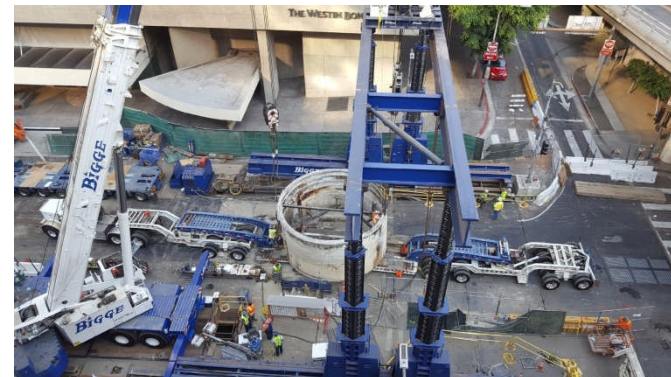
* Includes Board approved LOP plus finance costs.

OK SCHEDULE		
	Current	Forecast
REVENUE OPERATION	Dec 2021	Dec 2021

- Overall Project Progress is 39%.
- TBM breakout at 4th/Flower occurred July 19, 2017
- Tunneling operations: first bore completed; second bore scheduled to start late September
- 1st/Central Station is under steady state until tunnel operations are completed
- 2nd/Broadway Station is also under steady state; support of excavation is underway, including a 126" storm drain replacement
- 2nd/Hope Station excavation complete and invert poured
- Flower Street Guideway power relocations, support of excavation, decking and excavation underway



LA County storm drain demolition adjacent to Hobas replacement



TBM shield extraction for transport to Mangrove Yard

September 2017



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 8

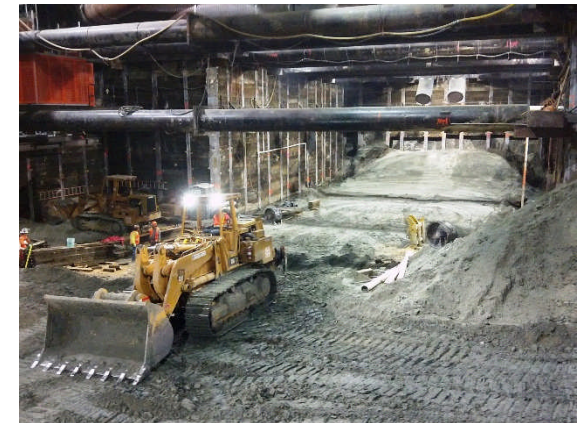
WESTSIDE PURPLE LINE EXTENSION – SECTION 1

OK BUDGET		
	Current	Forecast
TOTAL COST*	\$3,154M	\$3,154M

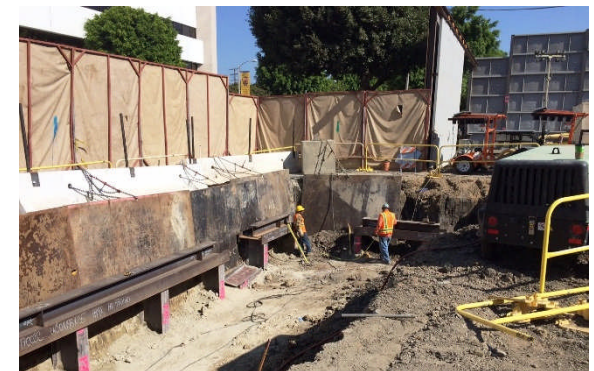
* Includes Board approved LOP plus Finance costs.

OK SCHEDULE		
	Current	Forecast
REVENUE OPERATION	Oct 2024 (FFGA)	Nov 2023

- Overall Project Progress is 22% complete.
- 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 December 2017.
- Street decking at the Wilshire/Fairfax Station commenced on the weekend of February 11, 2017, and completed on June 19, 2017. Steady-state traffic control was implemented on July 15, 2017. The hanging of utilities under the concrete deck panels is ongoing. Station excavation has begun.
- The Wilshire/La Cienega Station piling operation, which commenced on March 20, 2017, continues. Stage 1 piling along the south side of Wilshire Boulevard was completed on June 4, 2017. The Stage 2 piling operation began on July 15, 2017.
- Tunnel Boring Machines (TBMs) are being fabricated for delivery at the end of 2017. One TBM has been accepted by the contractor. Tunneling is planned to start in 2018.



Under Deck Excavation at Wilshire/La Brea Station



Securing Cap Beams at Wilshire/La Cienega Yard

September 2017



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 9

WESTSIDE PURPLE LINE EXTENSION – SECTION 2

BUDGET

	Current	Forecast
TOTAL COST*	\$2,530M	\$2,530M

* Includes Board approved LOP and Finance charges.

SCHEDULE

	Current	Forecast
REVENUE OPERATION	Dec 2026 (FFGA)	Aug 2025

- Contract C1120 – Tunnels, Stations, Trackwork and Systems (Design/Build): Final design by the D/B Contractor is underway. Submittal of 60% Design (Package #1-Utility/Civil Design at Launch Box) received in August 2017.
- Draft Supplemental Environmental Impact Statement (SEIS): Public comments were received and are under review.
- Century City Constellation: Telecom joint trench civil work completed in June 2017. Cable pulling and splicing work anticipated to complete in September 2017. LADWP Power construction began in May 2017. SCG and AT&T utility relocations are underway.
- Wilshire/Rodeo: SCE will begin relocation of power lines in September 2017, followed by SCG and AT&T.
- Negotiations with the City of Beverly Hills for a Memorandum of Agreement governing utility work began in March 2017 and is continuing. First construction permit for SCE was issued by Beverly Hills City Council in July 2017.



LADWP power relocation work in Century City

September 2017



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 10

WESTSIDE PURPLE LINE EXTENSION – SECTION 3

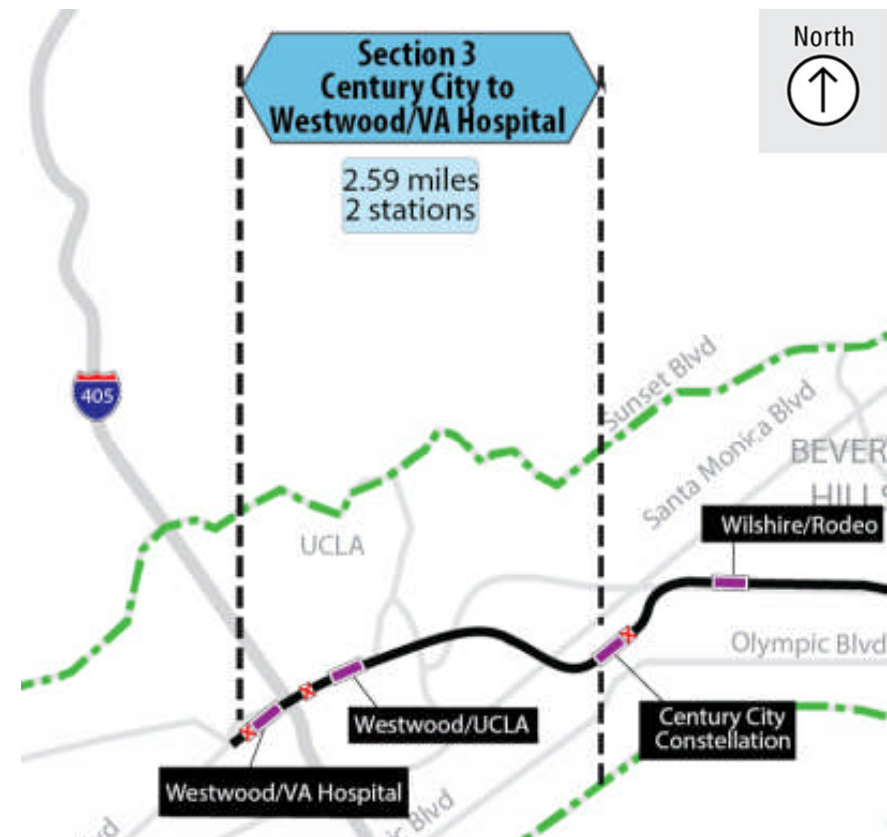
OK BUDGET

	Current	Forecast
TOTAL COST	TBD	\$3,478M

OK SCHEDULE

	Current	Forecast
REVENUE OPERATION	TBD	March 2026

- Metro requested entry into the FTA New Starts Engineering Phase on April 28, 2017.
- Construction Management Support Services (CMSS) - Request for Proposals (RFP) was issued on April 10, 2017. Recommendation for award anticipated in October 2017.
- C1151 Tunnel Contract - Request for Qualifications (RFQ)/Request for Proposals (RFP) was issued on April 19, 2017. The five pre-qualified contractors were notified on July 25, 2017.
- C1153 Advanced Utility Relocations (AUR) Contract - Invitation for Bids (IFB) was issued on May 31, 2017. Bids received on July 17, 2017. Award anticipated in October 2017.
- C1152 Stations, Trackwork and Systems Contract - Request for Qualifications (RFQ)/Request for Proposals (RFP) to be issued in September 2017.



September 2017


OK On target
 ◆ Possible problem
 ▲ Major issue


Construction Committee

Los Angeles County Metropolitan Transportation Authority



PATSAOURAS PLAZA BUSWAY STATION

 BUDGET	Current	Forecast
TOTAL COST	\$39.7M	\$39.7M

 SCHEDULE	Current	Forecast
SUBSTANTIAL COMPLETION	Nov 2018	Nov 2018

- All drilled foundations were completed in July 2017. Column construction is ongoing.
- First concrete pour for bridge abutment completed August 2017. Falsework on north and south sides ongoing.
- Sanitary sewer and storm drain relocations were completed in August 2017.
- Ramirez Street closure was implemented June/July 2017 and is complete. Vignes Street on/off-ramp is scheduled to open September 15, 2017.
- Schedule negotiations in progress for revised substantial completion date due to weather and design delays.



Aerial view of site



Completed bridge column



Bent 4 Foundation

September 2017



On target



Possible problem



Major issue




Metro 12

Construction Committee

Los Angeles County Metropolitan Transportation Authority

WILLOWBROOK/ROSA PARKS STATION

 BUDGET	Current	Forecast
TOTAL COST	N/A	\$92.4M

 SCHEDULE	Current	Forecast
SUBSTANTIAL COMPLETION	Dec 2020	Dec 2020

- Early Start Phase (Project E) IFB advertised August 2017 – scheduled to break ground November 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 UP and PUC
- Phase B at 100% design completion and in early coordination for Peer review with CalTrans
- Phase A&C invitation for bids scheduled for October 2017



South Platform Improvements



Central Plaza & Bus Bays



Main Plaza

September 2017



On target



Possible problem



Major issue




Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 13

METRO BLUE LINE PROJECTS

<u>Project Name</u>	Budget	Percent Completed	Forecast Completion	Status
• Station Refurbishment	\$30.4M	100%	Completed	
• Pedestrian Gates	\$30.2M	85%	March 2018	
• City of Long Beach Fare Gates Design (PE)	\$8M*	95%(PE)	Aug 2019	
• Blue Line Rehabilitation (OCS, Signals, Div. 11)	\$119M*		Aug 2021**	
Total: \$186.6M				



*Budget Estimate **Project Closeout

September 2017



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro

Crenshaw/LAX Transit Project

Change Activity

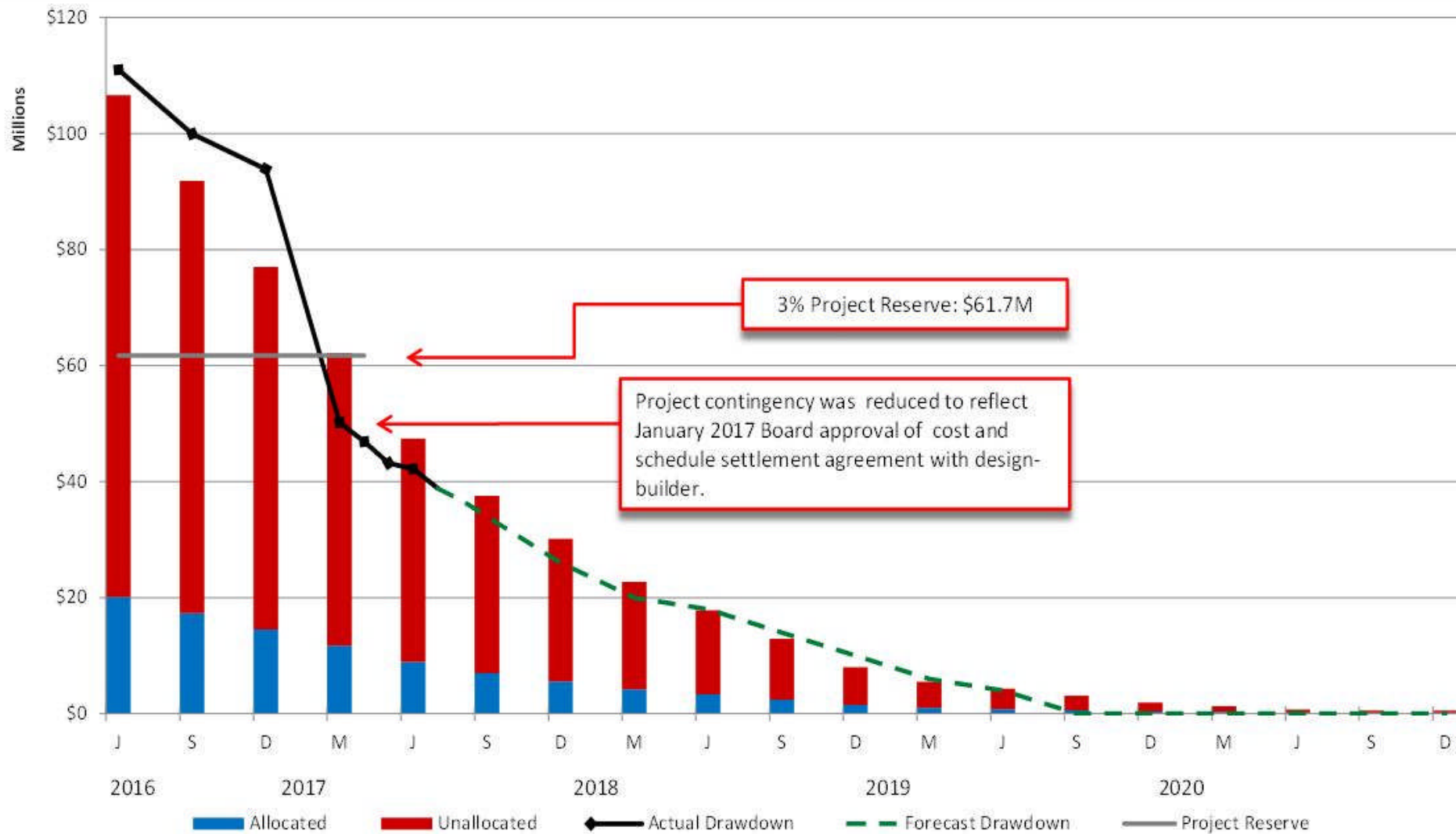
July 2017

Change Notice #	Description	Number of Mod/Change Orders	Cost Value
DESIGN BUILD - CONTRACT C0988			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS		296	\$ 72,302,463
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST		21	\$ 422,875
MOD 00256	Black Diamond Vault 5436 Crenshaw Bl		Less than \$1 million
MOD 00269	Remove Trees over MVD Easement		Less than \$1 million
MOD 00293	Asbestos Cement Pipe 63rd & Tesoro		Less than \$1 million
MOD 00294.1	Station Entrance Artwork - Design		Less than \$1 million
MOD 00297	Site Remediation Victoria - UG3		Less than \$1 million
MOD 00298	Design- Delete Tree Well Brick Pavers		Less than \$1 million
MOD 00301	Claim 72 Widen Ctr Walkway Skt-Desgn		Less than \$1 million
MOD 00302	LABSL Added Light Pole Centry-Design		Less than \$1 million
MOD 00303	Security Guard Crenshaw Year 4		Less than \$1 million
MOD 00234	LADOT Fiber Optic Cable Betterment		Less than \$1 million
MOD 00270	Unit Rates for Incidental Const Work		Less than \$1 million
MOD 00304	BkChrg Metro pymnts to COLA TCO		Credit Less than \$2 million
CO 00046.5	Underground Conduit & Cable		Less than \$1 million
CO 00129	Elimination Crosver Sta 56+57.50		Credit Less than \$1 million
CO 00140	Disp Remove Contam. Soil STA 182+25		Less than \$1 million
CO 00141.2	Underground Conduit Cable Emgcy Ligh		Less than \$1 million
CO 00142.1	Underground Stations and UG1 Ancilla		Less than \$1 million
CO 00143.1	Underground Conduit and Cable 20		Less than \$1 million
CO 00144.1	Underground Station Damper Modificat		Less than \$1 million
CO 00164	DWPPS Power Feed to TPSS #8		Less than \$1 million
CO 00169	Unforeseen Concrete at 104th Bridge		Less than \$1 million
TOTAL MODIFICATIONS AND CHANGE ORDERS		317	\$ 72,725,338
PROFESSIONAL SERVICES CONTRACT			
Design Support Services During Construction - CONTRACT E0117			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS		42	\$ 59,217,720
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST		0	\$ -
TOTAL MODIFICATIONS		42	\$ 59,217,720
Construction Management Support Services - CONTRACT MC069			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS		16	\$ 53,350,394
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST		0	\$ -
TOTAL MODIFICATIONS		16	\$ -

Crenshaw/LAX Transit Project

Project Cost Contingency Drawdown

July 2017

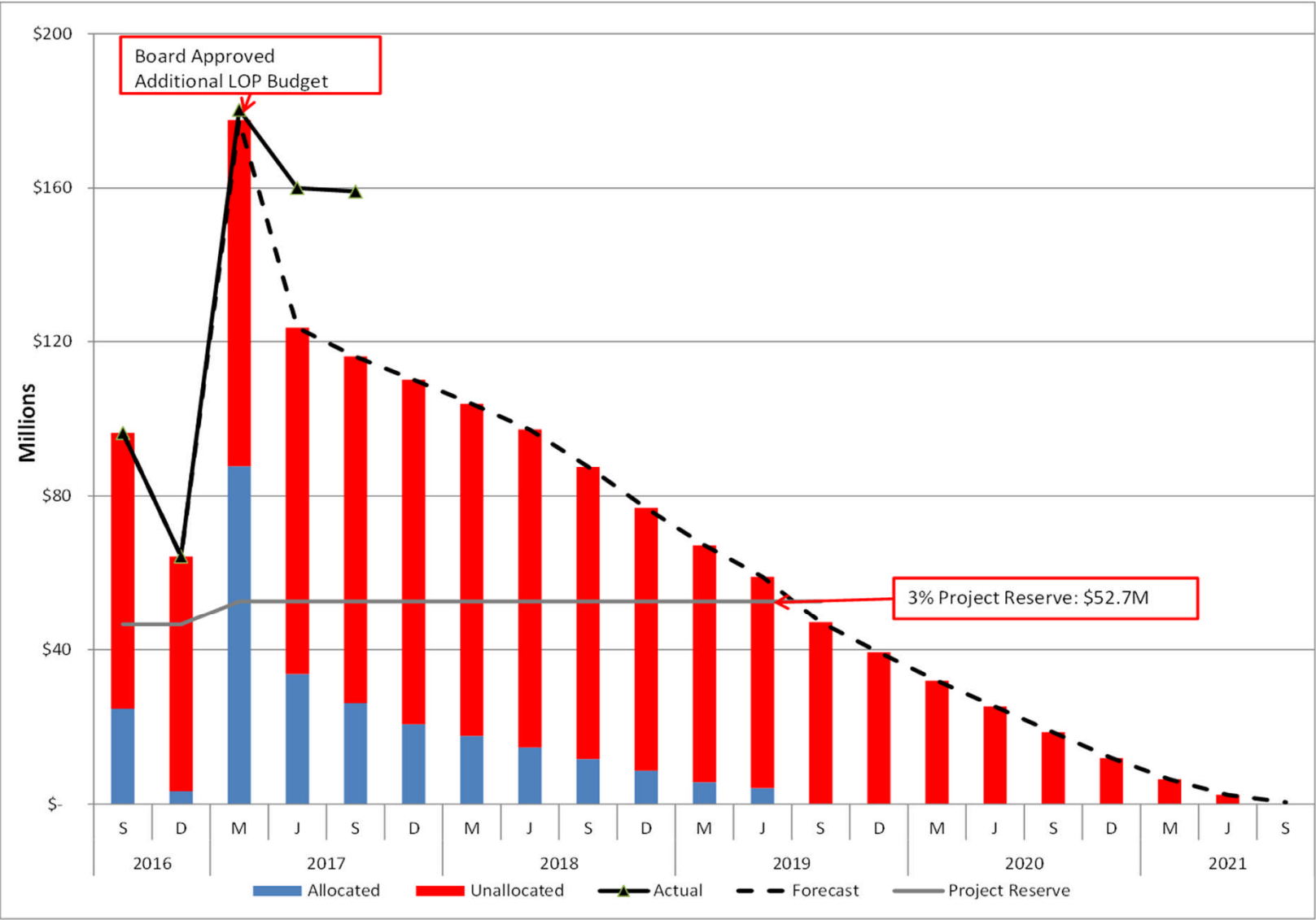


Regional Connector Change Activity

July 2017

Change Notice #	Description	Number of Mod/Change Orders	Cost Value
DESIGN BUILD CONTRACT (C0980)			
TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:		92	\$ 148,956,791
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:		35	\$ 67,510,247
	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
78.0	ATT Ductbank Relocation @ Hewitt		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 1 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	Infrastructure for Insite Wireless in Tunnels		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 1 fire life safety engineering and other design and construction		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
121.00	Utility Conflicts during Decking at 4th & Flower St.		Less Than \$1 Million
122.00	Asbestos Abatement on Flower St. thru May 2017		Less Than \$1 Million
124.00	Blue Light Stations		Less Than \$1 Million
TBD	Insurance Claim		Less Than \$1 Million
132.00	TBM Acceleration (24/7) to Flower St.		Less Than \$1 Million
133.00	Deleting OCS Work at 7th Metro (CREDIT)		Less Than \$1 Million
134.00	2nd/Broadway - LA Times Communication Line Realignment Due to Differing Site Conditions		Less Than \$1 Million
136.00	TBM Cutterhead Repairs Due to DSC		Less Than \$1 Million
137.00	Revise SOE and Train Control and Mechanical Rooms (Charles Dunn SOE DSC)		Less Than \$1 Million
138.00	LADWP Switch Room Requirements for 1st and Central Station - Design Only		Less Than \$1 Million
139.00	Flower Street - C0981 Power Vault MH 470 Support Frame		Less Than \$1 Million
140.00	Flower St. Road Settlement Temp Repair and Monitoring		Less Than \$1 Million
141.00	1st and Central Station -Escalator Controllers PE1 and PE3 Revised Locations		Less Than \$1 Million
TBD	TBM failure - delays and repair		Between \$1 and \$5 Million
TBD	Add 1 Commonwealth Agreement (noise barrier)		Between \$1 and \$5 Million
TOTAL MODIFICATIONS AND CHANGE ORDERS		127	\$ 216,467,038
PROFESSIONAL SERVICES CONTRACT			
Design Support Services During Construction (E0119)			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		12	\$ 44,629,810
TOTAL PENDING MODIFICATIONS ROUGH ORDER OF MAGNITUDE COST		0	\$ -
TOTAL MODIFICATIONS		12	\$ 44,629,810
Construction Management Support Services (MC070)			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		5	\$ 35,630,672
TOTAL PENDING MODIFICATIONS ROUGH ORDER OF MAGNITUDE COST		0	\$ -
TOTAL MODIFICATIONS		5	\$ 35,630,672

Regional Connector Project Cost Contingency Drawdown



Westside Purple Line Extension – Section 1 Change Activity

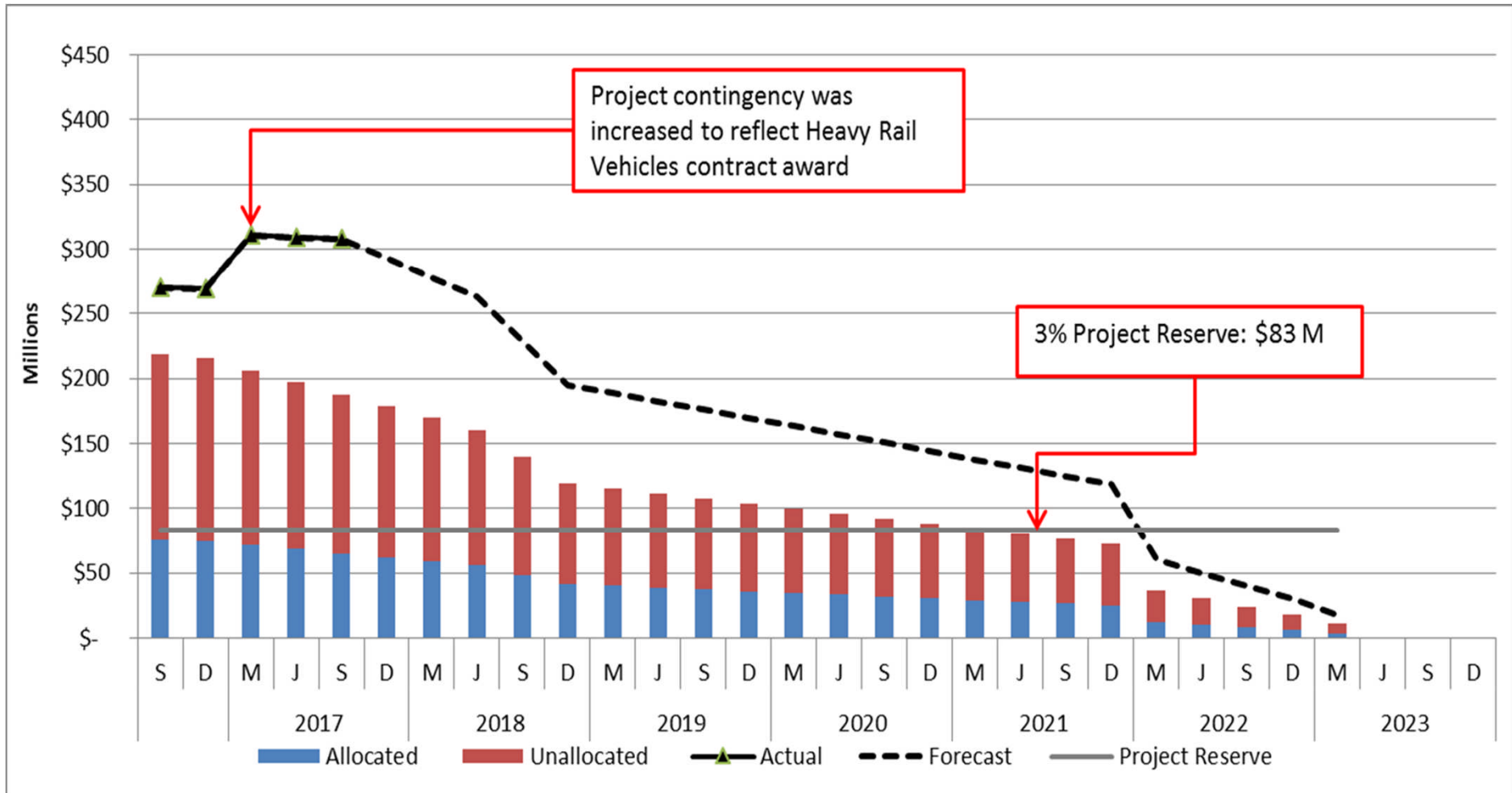
July 2017

Change Notice #	Description	Number of Mod/Change Orders	Cost Value
TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:		141	\$ 13,488,827
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:		41	More than \$15 Million
DESIGN/BUILD CONTRACT C1045			
		31	
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-39.1	Revision to Metro Station Signage		Less Than \$1 Million
CN-42.3	Radio Subsystem Redundancy		Less Than \$1 Million
CN-43.2	Isolate Track Circuits at Wilshire/Western		Less Than \$1 Million
CN-47.1	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		Less Than \$1 Million
CN-80	Stand by Generator Enclosure Aesthetic Improvements at La Cienega		Less Than \$1 Million
CN-81	Additional Instrumentation (Project Wide) as Required by LABOE and STS EOR		Less Than \$1 Million
CN-82	Additional Geotechnical Instrumentation at Western		Less Than \$1 Million
CN-83	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-90	La Brea Station Excavation Advancement of Work		Between \$10M - \$15M
CN-91	La Brea-DWP Conflict and Impacts to Cap Beam Walkers 28 & 29		Less Than \$1 Million
CN-92	La Cienega - Impacts from Delayed SCE Lines/MH Abandonment		Less Than \$1 Million
TBD	Fairfax - Piling Obstructions, Conflicts, Delays		Less Than \$1 Million
DESIGN/BUILD CONTRACT C1078		10	
CO5/CN-10	Revised Building Construction Impacts		Between \$5M - \$10M
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-21	Betterment: 6th Street Viaduct - Site Re-Grading, Ornamental Fenc, Etc.		Less Than \$1 Million
CN-20	Hazardous Materials - Chalmers Pan Handle		Less Than \$1 Million
CN-19	Storm Drain - Differing Site Conditions		Less Than \$1 Million
CN-18	On-Site LIDs		Less Than \$1 Million
TBD			
TOTAL MODIFICATIONS AND CHANGE ORDERS		182	
PROFESSIONAL SERVICES CONTRACTS			
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:		3	\$ 39,731,796
TOTAL PENDING MODIFICATIONS		1	More Than \$15 Million
CN-5	Continuation of Construction Management Support Services		More Than \$15 Million
TOTAL MODIFICATIONS		4	
OTHER - THIRD PARTY AGREEMENTS			
Annual work plan for Fiscal Year 2018 with the City of Beverly Hills, in an amount not-to-exceed			Between \$10M - \$15M

Westside Purple Line Extension – Section 1

Project Cost Contingency Drawdown

July 2017



Westside Purple Line Extension Section 2 Project Change Activity

July 2017

Change Notice #	Description	Number of Mod/Change Orders	Cost Value
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS		0	\$ -
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:		9	More than \$15 Million
DESIGN/BUILD CONTRACT 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	Third Party Utility Final Design		Less Than \$1 Million
TBD	AT&T Building Demolition		Between \$1M - \$5 M
CN-5	PB Name Change and Update		0
CN-6	Furnish Cradles for LADWP Power Vaults		Less Than \$1 Million
TOTAL MODIFICATIONS AND CHANGE ORDERS		9	\$ -
PROFESSIONAL SERVICES CONTRACT			
Design Support Services During Construction			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		0	\$ -
TOTAL PENDING MODIFICATIONS		0	\$ -
TOTAL MODIFICATIONS		0	\$ -
Construction Management Support Services			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		0	\$ -
TOTAL PENDING MODIFICATIONS		0	\$ -
TOTAL MODIFICATIONS		0	\$ -
OTHER - THIRD PARTY AGREEMENTS			
Annual Work Plan for Fiscal Year 2018 with the City of Beverly Hills (not-to-exceed amount)			Between \$5M - \$10M
The Auto Club of Southern California (AAA) - reimbursement agreement for tenant improvements and building maintenance for construction field office			Between \$1M - \$5M

Westside Purple Line Extension – Section 2

Project Cost Contingency Drawdown

July 2017

