

# **Program Management Major Project Status Report**

Presented By

**Richard Clarke**

Chief Program Management Officer

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January 2018

**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 the total project budget (\$38 million in contingency remains). Contractor is 20 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 25% complete, no significant issues. Project schedule reflects 63 days of positive float per Contract Modification 45 (Advancement of La Brea Excavation).
Westside Purple Line Extension-Section 2			Issued Notice to Proceed (NTP) to Tutor Perini/O&G a JV (TPOG) on April 26, 2017. Project is 5% complete with no significant issues.
Westside Purple Line Extension-Section 3			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. Awaiting FTA approval.
Patsaouras Plaza			Project 46% complete with approved substantial completion date of December 2018.
Willowbrook/Rosa Parks Station			Design activities progressed to 100% complete and in final reviews.
Metro Blue Line Projects			Pedestrian Swing Gate project 87% complete. MBL Signal Rehab project has just started at 10% completion.

January 2018



On target



Possible problem



Major issue



Metro 2

Construction Committee

Los Angeles County Metropolitan Transportation Authority

# TRANSIT MASTER SCHEDULE (Page 1 of 2)

TASK filters: Code Cleanup_1, Name contains, Show on Master Schedule, WBS Categories, WBS				* 00 Master Program (By Phase) no contin													29-Nov-17	
Activity Name	PMIS Project Manager	Start	Finish	Original Budget	FY2017 2017	FY2018 2018	FY2019 2019	FY2020 2020	FY2021 2021	FY2022 2022	FY2023 2023	FY2024 2024	FY2025 2025	FY2026 2026	FY2027 2027	FY2028 2028	FY2029 2029	FY2030 2030
<b>Transit Projects</b>		<b>01-Mar-07 A</b>	<b>26-Jun-57</b>	<b>7,479,403,650.00</b>														
<b>Environmental</b>		<b>01-Mar-07 A</b>	<b>26-Jun-57</b>	<b>2,419,000,000.00</b>														
North San Fernando Valley BRT Improvements	Cencic	04-Jan-17 A	06-Feb-26	\$180,000,000.00														
North Hollywood to Pasadena BRT	Richmai	30-Jan-15 A	02-May-25	\$267,000,000.00														
Orange Line Grade Separations	Patel	23-May-16 A	30-Jun-25	\$286,000,000.00														
East San Fernando Valley Transit Corridor	Davis	11-Oct-10 A	05-Dec-28	1,331,000,000.00														
Vermont BRT Corridor	Cencic	30-Jan-15 A	05-Oct-29	\$425,000,000.00														
Crenshaw Northern Extension	Moosavi	29-Dec-17	17-Jun-47	2,240,000,000.00														
West Santa Ana Transit Corridor	Pan	01-Oct-09 A	05-Jul-41	4,000,000,000.00														
Sepulveda Phase 1 - Express Lanes	Wong	01-Nov-17	13-Jan-28	\$260,000,000.00														
Sepulveda Phase 3 - Westwood to LAX	Mieger	26-Apr-17 A	26-Jun-57	3,865,000,000.00														
South Bay Green Line Ext. Crenshaw Blvd in Torr	Khanna	23-Mar-17 A	19-Jun-31	\$891,000,000.00														
Sepulveda Phase 2 - Transit Corridor	Zelmer	26-Apr-17 A	06-Jan-37	5,674,000,000.00														
Eastside Transit Corridor Phase 2 (1 Align)	Liu	01-Mar-07 A	08-Nov-35	3,000,000,000.00														
<b>Design</b>		<b>04-Oct-10 A</b>	<b>28-Apr-27</b>	<b>2,030,270,758.00</b>														
Airport Metro Connector	Zelmer	04-Oct-10 A	07-Jun-23	\$623,400,000.00														
Gold Line Foothill Extension Phase 2B	Meade	02-Oct-13 A	28-Apr-27	1,406,870,758.00														
<b>Procurement</b>		<b>29-Feb-16 A</b>	<b>03-Sep-26</b>	<b>3,478,000,000.00</b>														
Purple Line Extension Section 3	McKenna	29-Feb-16 A	03-Sep-26	3,478,000,000.00														
<b>Construction Contract</b>		<b>01-Jun-07 A</b>	<b>29-Aug-25</b>	<b>9,552,132,892.00</b>														
Crenshaw/LAX Transit Corridor	Beauvoir	01-Jul-09 A	30-Oct-19	2,058,000,000.00														
Regional Connector Transit Corridor	Baker	26-Jan-09 A	10-Dec-21	1,810,132,892.00														
Purple Line Extension Section 1	Cohen	01-Jun-07 A	29-Nov-23	3,154,300,000.00														
Purple Line Extension Section 2	McKenna	02-Mar-15 A	29-Aug-25	2,529,700,000.00														
<b>Transit Facilities</b>		<b>07-May-15 A</b>	<b>10-Apr-24</b>	<b>\$577,546,000.00</b>														

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

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

# TRANSIT MASTER SCHEDULE (Page 2 of 2)

TASK filters: Code Cleanup_1, Name contains, Show on Master Schedule, WBS Categories_WBS				* 00 Master Program (By Phase) no contin												29-Nov-17		
Activity Name	PIMS Project Manager	Start	Finish	Original Budget	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030
<b>Design</b>		07-May-15 A	10-Apr-24	\$577,546,000.00														
Willowbrooks/Rosa Parks Station Improvement	Lindholm	07-May-15 A	15-Jul-20	\$102,546,000.00														
Div 20 Portal/Turnback	Meade	16-May-16 A	10-Apr-24	\$475,000,000.00														
<b>Regional Rail Projects</b>	<b>Owens</b>	<b>02-Sep-13 A</b>	<b>20-May-27</b>	<b>3,099,400,000.00</b>														
<b>Environmental</b>	<b>Owens</b>	<b>01-Dec-14 A</b>	<b>20-May-27</b>	<b>2,662,000,000.00</b>														
Link Union Station	Owens	01-Dec-14 A	20-May-27	2,662,000,000.00														
<b>Design</b>	<b>Owens</b>	<b>01-Apr-15 A</b>	<b>02-May-22</b>	<b>\$422,400,000.00</b>														
Brighton to Roxford Double Track	Owens	01-Sep-15 A	22-Nov-21	\$186,600,000.00														
Lone Hill to CP White	Owens	03-May-16 A	02-May-22	\$82,000,000.00														
Rosecrans & Marquardt Grade Separation	Owens	01-Apr-15 A	19-Apr-21	\$153,800,000.00														
<b>Construction Contract</b>	<b>Owens</b>	<b>02-Sep-13 A</b>	<b>01-Jun-18</b>	<b>\$15,000,000.00</b>														
Bob Hope Airport Station	Owens	02-Sep-13 A	01-Jun-18	\$15,000,000.00														
<b>Bus Facilities Projects</b>	<b>Gurrola</b>	<b>31-Mar-14 A</b>	<b>15-Jan-19</b>	<b>\$0.00</b>														
<b>Construction Contract</b>	<b>Gurrola</b>	<b>31-Mar-14 A</b>	<b>15-Jan-19</b>	<b>\$0.00</b>														
Patsouras Plaza	Gurrola	31-Mar-14 A	15-Jan-19	\$0.00														
<b>State of Good Repair/Improvements</b>		<b>01-Jul-13 A</b>	<b>31-Mar-21</b>	<b>\$180,999,946.00</b>														
<b>Design</b>	<b>Danielans</b>	<b>13-Jun-16 A</b>	<b>31-Mar-21</b>	<b>\$11,078,366.00</b>														
210 Freeway Barrier Rail	Danielans	13-Jun-16 A	31-Mar-21	\$11,078,366.00														
<b>Procurement</b>	<b>Wei</b>	<b>21-Sep-15 A</b>	<b>28-May-20</b>	<b>\$118,990,580.00</b>														
MBL Resignaling	Wei	21-Sep-15 A	28-May-20	\$118,990,580.00														
<b>Construction Contract</b>		<b>01-Jul-13 A</b>	<b>30-Mar-18</b>	<b>\$50,931,000.00</b>														
Pershing Sq. Esc. Replace & New Canopy Project	Patel	11-May-15 A	31-Aug-17 A	\$20,756,000.00														
MBL Ped Safety Enhancement At-Grade Crossing	Chong	01-Jul-13 A	30-Mar-18	\$30,175,000.00														

Planning / Environmental   
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Design / Engineering   
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# HIGHWAY MASTER SCHEDULE (Page 1 of 2)

* 00 Hwy Master Program Schedule (By Pha)					12-Dec-17																			
Activity Name	Project Manager	Start	Finish	Latest Estimate	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	FY2034	FY2035	FY2036
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
<b>Highway Projects</b>		<b>01-Jan-06 A</b>	<b>01-Jul-07</b>	<b>\$31,252,027,000.00</b>																				
<b>Environmental</b>		02-Jan-08 A	01-Jul-07	\$26,237,060,000.00																				
SR-138 Corridor Improvement Project	Ansari	01-Apr-13 A	03-Feb-28	\$744,000,000.00																				
High Desert Corridor	Panucco	10-Sep-10 A	01-Jul-07	\$11,451,000,000.00																				
I-710 South (Phase 1)	Chaves	02-Jan-08 A	01-Nov-29	\$3,211,240,000.00																				
I-710 South (Phase 2)	Chaves	02-Jan-08 A	28-Jun-41	\$4,816,860,000.00																				
SR-57/SR-60 Interchange Improvements	Jong	02-Jul-18	31-May-29	\$770,000,000.00																				
I-5 Corridor Improvements (I-605 to I-710)	Chaves	02-Jan-19	30-Jun-42	\$1,105,060,000.00																				
I-105 Express Lane from I-405 to I-605	Amini	01-May-17 A	27-Jun-29	\$175,000,000.00																				
I-110 Express Lane Ext South to I-405/I-110 Interchange	Amini	03-Jul-35	29-Jun-46	\$280,000,000.00																				
I-605 Interchange Improvements	Various	01-Jun-18 A	01-Feb-30	\$1,343,800,000.00																				
I-605/SR-91 Interchange Improvements	Various	01-Jun-18 A	26-Sep-24	\$143,300,000.00																				
**On-Hold** I-710/SR-91 Interchange Improvements	Various	03-Dec-18	23-Jul-29	\$530,000,000.00																				
**On-Hold** I-605/I-405 Interchange Improvements	Various	02-Jan-19	01-Feb-30	\$670,500,000.00																				
I-605 Corridor Improvements	Panucco	01-Oct-15 A	12-Jun-28	\$2,340,100,000.00																				
<b>Design</b>		01-Dec-11 A	01-Apr-24	\$1,689,200,000.00																				
I-5 North Capacity Enhancement (SR-14 to Parker Rd.)	Antaramian	02-Jul-12 A	01-Feb-23	\$1,620,000,000.00																				
SR-71 Gap Between I-10 to Rio Rancho Rd	Jong	01-Jul-12 A	01-Apr-24	\$295,000,000.00																				
I-710 Early Action Projects	Delgadillo	01-Dec-11 A	13-Apr-21	\$60,200,000.00																				
I-605 Hot Spots	Montez	01-Jun-14 A	05-May-21	\$14,000,000.00																				
Arterial Intersections - Whittier	Montez	02-Jun-14 A	05-May-21	\$5,600,000.00																				
Arterial Intersections - La Mirada	Montez	02-Jun-14 A	30-Mar-20	\$4,300,000.00																				
Arterial Intersections - Cerritos	Montez	01-Jun-14 A	28-Apr-21	\$2,900,000.00																				
Arterial Intersections - Bellflower	Montez	01-Jun-14 A	31-Oct-19	\$1,200,000.00																				
<b>Procurement</b>		15-Dec-10 A	04-Mar-22	\$283,500,000.00																				
I-405 South Bay Curve Improvements	Panucco	02-Jan-14 A	04-Mar-22	\$126,700,000.00																				
I-405 Crenshaw Blvd On/Off Ramp Improvements	Panucco	02-Jan-14 A	04-Mar-22	\$82,700,000.00																				
I-405/I-110 Interchange Improvements	Panucco	02-Jan-14 A	08-Apr-19	\$44,000,000.00																				
Countywide Soundwall Construction	Owen	15-Dec-10 A	17-Feb-21	\$156,800,000.00																				
Package #10 - SR-210 Fair Oaks, Lake and Baldwin to Sant	Owen	02-Sep-14 A	17-Feb-21	\$59,300,000.00																				
Package #11 - SR-170 from 101 to Sherman Way and I-405	Owen	15-Dec-10 A	31-Dec-20	\$97,500,000.00																				

Planning / Environmental   
  ROW / Utility Relocation   
  DB Construction   
  Remaining Program Duration   
  System Testing   
  Not Fu...

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

# HIGHWAY MASTER SCHEDULE (Page 2 of 2)

					* 00 Hwy Master Program Schedule (By Pha)												12-Dec-17								
Activity Name	Project Manager	Start	Finish	Latest Estimate	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	FY2034	FY2035	FY2036	
<b>Construction Contract</b>		01-Jan-98 A	01-Aug-22	\$2,742,267,000.00																					
I-5 North Capacity Enhancements SR-134 to SR-118	Subeh	01-Apr-98 A	15-Jun-20	\$853,900,000.00																					
SR-118 to SR-170 (Segment 1A)	Subeh	30-Jul-99 A	15-Jul-16 A	\$219,400,000.00																					
SR-170 to Buena Vista (Segments 2)	Subeh	01-Apr-98 A	16-Dec-15 A	\$94,700,000.00																					
Magnolia to SR-134 (Segment 4)	Subeh	01-Apr-98 A	18-Dec-19	\$137,400,000.00																					
Buena Vista to Magnolia (Segment 3)	Subeh	01-Apr-98 A	15-Jun-20	\$402,400,000.00																					
I-5 South Capacity Enhancements from I-605 to Orange Cour	Gau	01-Jan-98 A	01-Aug-22	\$1,888,367,000.00																					
I-5 Camenita Road Interchange	Gau	01-Jan-01 A	28-Feb-18	\$420,000,000.00																					
Alondra (Segment 1)	Gau	01-Jan-01 A	19-May-16 A	\$114,071,000.00																					
Imperial Highway (Segment 4)	Gau	01-Jan-01 A	26-Jul-19	\$323,285,000.00																					
Shoemaker - Rosecrans (Segment 3)	Gau	01-Jan-98 A	28-Nov-18	\$188,216,000.00																					
Florence (Segment 5)	Gau	01-Jan-01 A	30-Jul-20	\$211,671,000.00																					
Valley View (Segment 2)	Gau	01-Jan-98 A	01-Aug-22	\$631,124,000.00																					

Planning / Environmental   
  ROW / Utility Relocation   
  DB Construction   
  Remaining Program Duration   
  System Testing   
  Not Fu...

Design / Engineering   
  Adv / Award   
  DBB Construction   
  Contingency   
  Not Funded (Eng/Bid/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 75% complete; main line contractor needs to mitigate 20 day delay
- Contractor continues critical track work installation along southern area of alignment
- Contractor continues concrete wall and roof placements for cut-and-cover tunnel and the three underground stations along Crenshaw Boulevard
- The contractor for the Southwestern Yard Maintenance Facility is ahead of schedule



Aerial view of Southwestern Yard Maintenance Facility



Southwestern Yard contractor continues main shop construction

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 7

# REGIONAL CONNECTOR TRANSIT PROJECT

**OK BUDGET**

	Current	Forecast
<b>TOTAL COST</b>	<b>\$1,810M</b>	<b>\$1,810M</b>

\* Includes Board approved LOP plus finance costs.

**OK SCHEDULE**

	Current Dec 2021	Forecast Dec 2021
<b>REVENUE</b>		
<b>OPERATION</b>		

- Overall Project Progress is 43%
- Tunneling: Second bore through future Grand Av Arts/Bunker Hill Station and re-launched for final section of drive to Flower Street
- Little Tokyo/Arts District Station: Under steady state until tunnel operations are completed
- Historic Broadway Station: Underpinning and excavation continues under steady state
- Grand Av Arts/Bunker Hill Station: Permanent invert and wall construction underway
- Flower Street: 6<sup>th</sup> Street re-opened to traffic; utility relocations, support of excavation, decking and excavation continue



Underpinning activities underway at Historic Broadway Station



Invert pour and rebar installation at Grand Av Arts/Bunker Hill Station

January 2018



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
<b>TOTAL COST*</b>	<b>\$3,154M</b>	<b>\$3,154M</b>

\* Includes Board approved LOP plus Finance costs.

## **OK** SCHEDULE

	Current	Forecast
<b>REVENUE OPERATION</b>	<b>Oct 2024 (FFGA)</b>	<b>Nov 2023</b>

- Overall Project Progress is 25% complete.
- Support of Excavation (SOE) pile installation began at the Wilshire/Western Retrieval Shaft in December 2017. Decking in this area is anticipated to start in February 2018.
- The Wilshire/La Brea Station excavation was completed in November 2017. Station structural concrete activities are scheduled to begin at the end of December 2017.
- At the Wilshire/Fairfax Station, the station excavation and the installation of walers and struts is on-going.
- Street decking at Wilshire/La Cienega Station commenced on the weekend of October 6, 2017. The decking operation is scheduled to complete in January 2018.
- Tunnel Boring Machines (TBMs) were delivered to Los Angeles in December 2017 and will be taken to the contractor's Riverside storage site until needed. Tunneling is planned to start in the summer of 2018.



Mud Mat Installation at Wilshire/La Brea Station



Wilshire/La Cienega Decking Operation

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 9

# WESTSIDE PURPLE LINE EXTENSION – SECTION 2

## OK BUDGET

	Current	Forecast
<b>TOTAL COST*</b>	<b>\$2,530M</b>	<b>\$2,530M</b>

\* Includes Board approved LOP plus Finance costs.

## OK SCHEDULE

	Current	Forecast
<b>REVENUE OPERATION</b>	<b>Dec 2026 (FFGA)</b>	<b>Aug 2025</b>

- Overall project progress is 5% complete.
- Design progress is 44% complete.
- Final Supplemental Environmental Impact Statement (SEIS): Published in the Federal Registry on December 1, 2017.
- Century City Constellation: Southern California Gas (SCG) completed work in November 2017. AT&T and LADWP (Power) utility relocations are underway.
- Wilshire/Rodeo: Southern California Edison (SCE) civil work completed in November 2017 and cable pulling and splicing to be completed in January 2018. SCG and AT&T to begin in February 2018.
- Beverly Hills City Council approved Memorandum of Agreement (MOA) governing remaining third party utility work on November 22, 2017.
- Negotiations with the City of Beverly Hills (COBH) for an MOA for the C1120 Contract began in August 2017 and are anticipated to complete by April 2018.



LADWP power relocation work in Century City

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 10

# WESTSIDE PURPLE LINE EXTENSION – SECTION 3

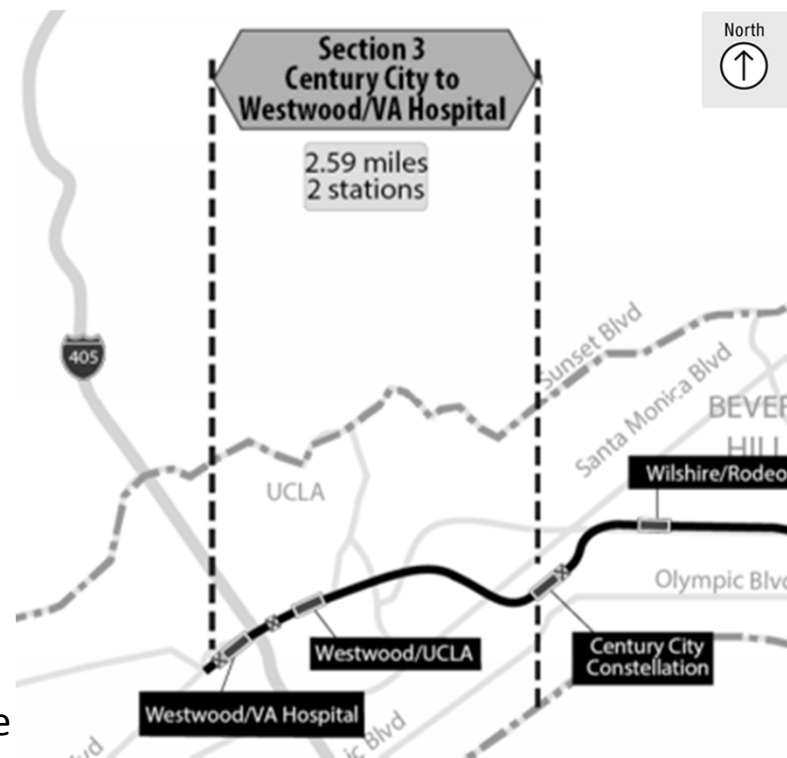
## OK BUDGET

	Current	Forecast
TOTAL COST	TBD	\$3,478M

## OK SCHEDULE

	Current	Forecast
REVENUE OPERATION	TBD	March 2026

- 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) Contract executed in December 2017.
- C1151 Tunnel Contract - Technical proposals were received on November 13, 2017, and price proposals are anticipated in early 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. Qualifications from respondents were received on November 20, 2017.
- C1153 Advanced Utility Relocations (AUR) Contract – Notice to Proceed (NTP) was issued in December 2017.



January 2018



On target



Possible problem



Major issue





Metro

Construction Committee

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# PATSAOURAS PLAZA BUSWAY STATION

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

 SCHEDULE	Current	Forecast
SUBSTANTIAL COMPLETION	Nov 2018	Dec 2018

- Pedestrian overcrossing and elevator foundations are pending Native bone resolution with Coroner
- Falsework on right side complete and concrete pours started December 2017, left side falsework is ongoing
- Installation of bridge post-tensioning, deck drains and rebar ongoing
- Electrical and communication relocations completed
- Vignes Street on/off-ramp intermittent non-peak closures ongoing
- Center Street nighttime closure approved, falsework over Center Street to be scheduled for nighttime work
- Contractor revised and submitted construction baseline schedule per Metro’s request
- Supplemental PSR/PR approved by Caltrans



Aerial view of site



Falsework – Left Side

January 2018



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 (Package E) Contract was awarded December 2017
- Package A and C at 100% design completion. Caltrans review completed and approved. Permit expected by end of month. County review still in process.
- Pedestrian grade crossing documents submitted to Union Pacific (UP) and Public Utilities Commission PUC
- Package A and C invitation for bids scheduled for late 2017
- In early coordination with Metro Operations on implementation of this and other Blue Line projects



South Platform Improvements

Central Plaza & Bus Bays

Main Plaza

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 13

# THE NEW BLUE

<u>Project Name</u>	Budget	Percent Completed	Forecast Completion	Status
• <b>Pedestrian Gates</b>	\$31.4M	87%	March 2018	OK
• <b>City of Long Beach Fare Gates Design</b> (Design)	\$6M	40%(Design)	Feb 2018	OK
• <b>Blue Line Signal Rehabilitation</b> (OCS, Signals, Div. 11)	\$119M*	10%	April 2021	OK
<b>Total: \$156.4M</b>				

## Project Status

- **Pedestrian gates**
  - Construction completed within Cities of Long Beach and Compton
  - Construction within County of LA 90% complete
  - Working with LADOT on full Street closures traffic control plan approvals
- **MBL Signal Rehab Design at 60%**
- **City of Long Beach Fare Gates Design** (Design)
  - Design started on 5<sup>th</sup> and Wardlow stations.



\*Budget Estimate

January 2018



On target



Possible problem



Major issue

Construction Committee

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Metro

# Crenshaw/LAX Transit Project

## Change Activity

November 2017

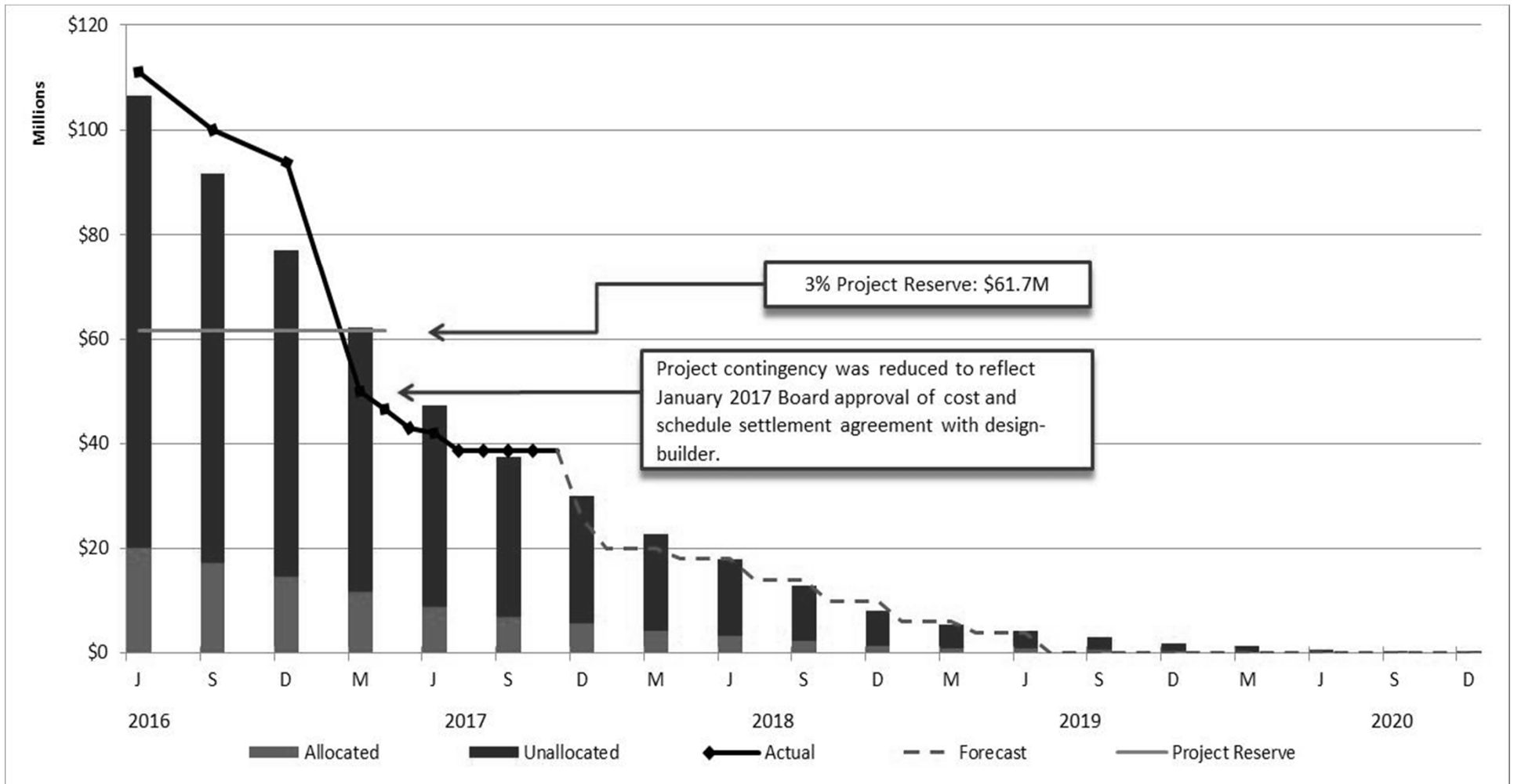


Change Notice #	Description	Number of Mod/ Change Orders	Cost Value
<b>TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS</b>		<b>339</b>	<b>\$ 78,792,098</b>
<b>TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST</b>		<b>14</b>	<b>\$ (476,591)</b>
<b>DESIGN BUILD - CONTRACT C0988</b>			
MOD 00290	Asbestos Cement Pipe 63rd & Tesoro		Less than \$1 million
MOD 00319	Claim 118 Resolution - Qwest Line		Less than \$1 million
MOD 00320	Clean Agent Systems in the 3 TC& C		Less than \$3 million
MOD 00321	Addl Dsgn MLK Paver Underlayment		Less than \$1 million
MOD 00323	ATC Wayside Signal Numbering Rev		Less than \$1 million
MOD 00330	Procurement of Network Equipment		Less than \$1 million
MOD 00331	Cst Reimbursement Halfway Event		Less than \$1 million
MOD 00304	BkChrg Metro pymnts to COLA TCO		Credit Less than \$2 million
MOD 00326.1	Addtl Curb Ramps at Westmount-Constr		Less than \$1 million
MOD 00327	Composite Utility Plan Revisions		Less than \$1 million
MOD 00332	Revised ROW Lines at HS-1001, Arbor		Less than \$1 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 00197	MLK Station Plaza Concrete Pav-Const		Less than \$1 million
<b>TOTAL MODIFICATIONS AND CHANGE ORDERS</b>		<b>353</b>	<b>\$ 78,315,507</b>
<b>PROFESSIONAL SERVICES CONTRACTS</b>			
<b>Design Support Services During Construction - CONTRACT E0117</b>			
<b>TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS</b>		<b>42</b>	<b>\$ 59,217,720</b>
<b>TOTAL PENDING MODIFICATIONS</b>		<b>0</b>	<b>\$ -</b>
<b>TOTAL MODIFICATIONS</b>		<b>42</b>	<b>\$ 59,217,720</b>
<b>Construction Management Support Services - CONTRACT MC069</b>			
<b>TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS</b>		<b>18</b>	<b>\$ 69,484,775</b>
<b>TOTAL PENDING MODIFICATIONS</b>		<b>0</b>	<b>\$ -</b>
<b>TOTAL MODIFICATIONS</b>		<b>18</b>	<b>\$ 69,484,775</b>

# Crenshaw/LAX Transit Project

## Project Cost Contingency Drawdown

November 2017





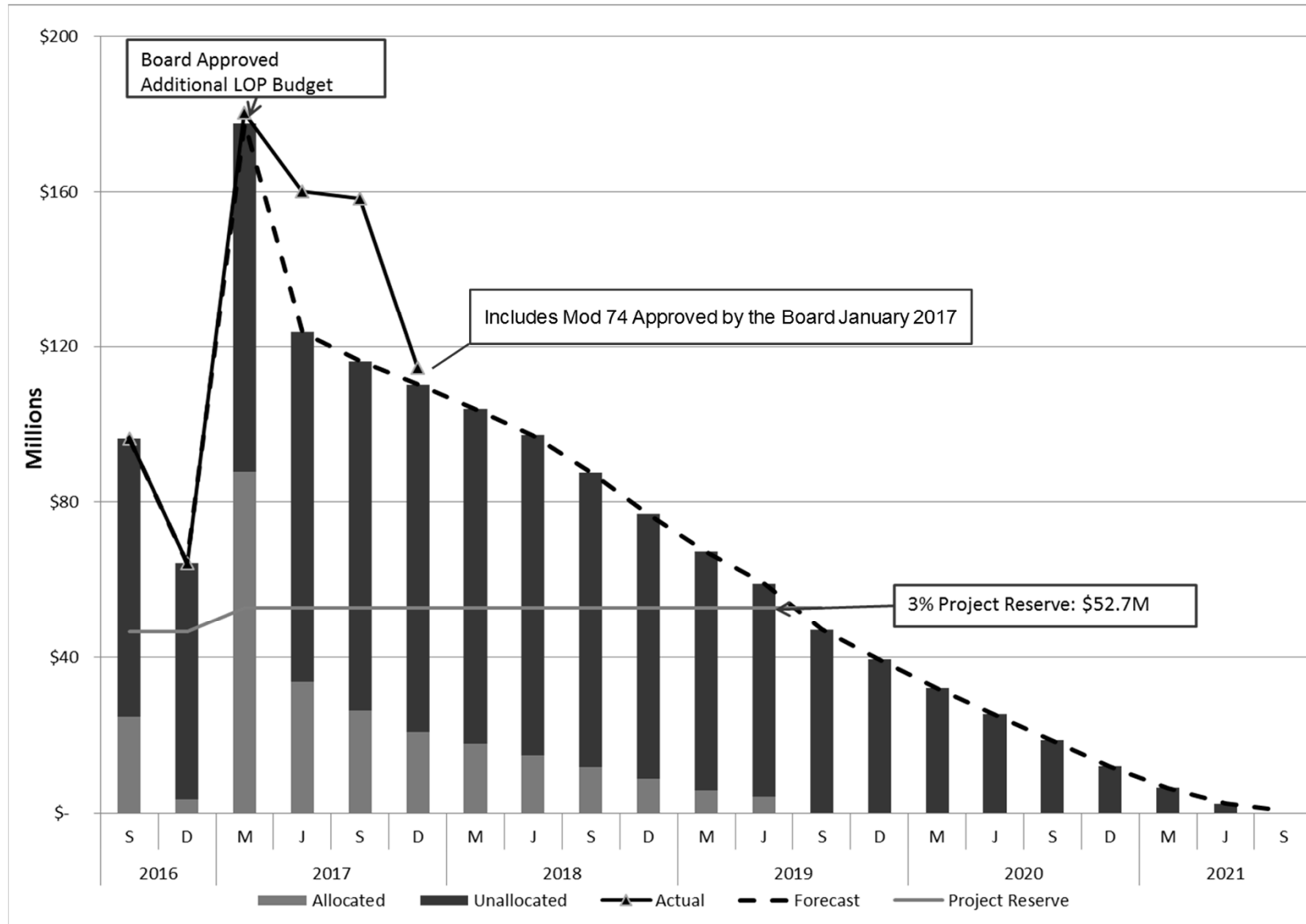
# Regional Connector Change Activity

November 2017



Change Notice #	Description	Number of Mod/ Change Orders	Cost Value
<b>DESIGN BUILD CONTRACT (C0980)</b>			
<b>TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:</b>		<b>103</b>	<b>\$ 194,191,501</b>
<b>TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:</b>		<b>32</b>	<b>\$ 28,568,488</b>
	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
68.0	Flower Street Zanja Additional Potholing		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
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	Add Perforated Metal Dropped Ceiling at 2nd/Hope Station Plaza - Construction		Less Than \$1 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 - JVP Compensation Grout Line		Less Than \$1 Million
130.00	10" Sewer Bypass at 1st/Alameda		Less Than \$1 Million
131.00	Backfilling Broken Compensation Grouting Pipes at JVP		Less Than \$1 Million
133.0	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
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	Add '1 Commonwealth Agreement (noise barrier)		Less Than \$1 Million
146.0	Add '1 Gas Monitoring/Potential Gassy w/Special Conditions		Between \$1 and \$5 Million
148.0	Platform Stand-Alone Validators		Less Than \$1 Million
150.0	Support Lowering of MCI and LGN/Level 3 Conduits on Flower St.		Less Than \$1 Million
151.0	Differing Site Conditions - Time		Between \$1 and \$5 Million
TBD	Differing Site Conditions - Labor		Between \$1 and \$5 Million
TBD	Zayo, AT&T, and DWP Fiber Optic Line Extra Week		Less Than \$1 Million
TBD	DWP Vault Support (5) on Flower		Less Than \$1 Million
153.00	Additional UPS System for Regional Connector Radio Racks at 7th Metro -Design Only		Less Than \$1 Million
TBD	Additional UPS System for Regional Connector Radio Racks at 7th Metro -Construction		Less Than \$1 Million
<b>TOTAL MODIFICATIONS AND CHANGE ORDERS</b>		<b>135</b>	<b>\$ 222,759,989</b>
<b>PROFESSIONAL SERVICES CONTRACT</b>			
<b>Design Support Services During Construction (E0119)</b>			
<b>TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS</b>		<b>12</b>	<b>\$ 44,629,810</b>
<b>TOTAL PENDING MODIFICATIONS ROUGH ORDER OF MAGNITUDE COST</b>		<b>0</b>	<b>\$ -</b>
<b>TOTAL MODIFICATIONS</b>		<b>12</b>	<b>\$ 44,629,810</b>
<b>Construction Management Support Services (MC070)</b>			
<b>TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS</b>		<b>5</b>	<b>\$ 35,630,672</b>
<b>TOTAL PENDING MODIFICATIONS ROUGH ORDER OF MAGNITUDE COST</b>		<b>0</b>	<b>\$ -</b>
<b>TOTAL MODIFICATIONS</b>		<b>5</b>	<b>\$ 35,630,672</b>

# Regional Connector Project Cost Contingency Drawdown



# Westside Purple Line Extension – Section 1 Change Activity

November 2017



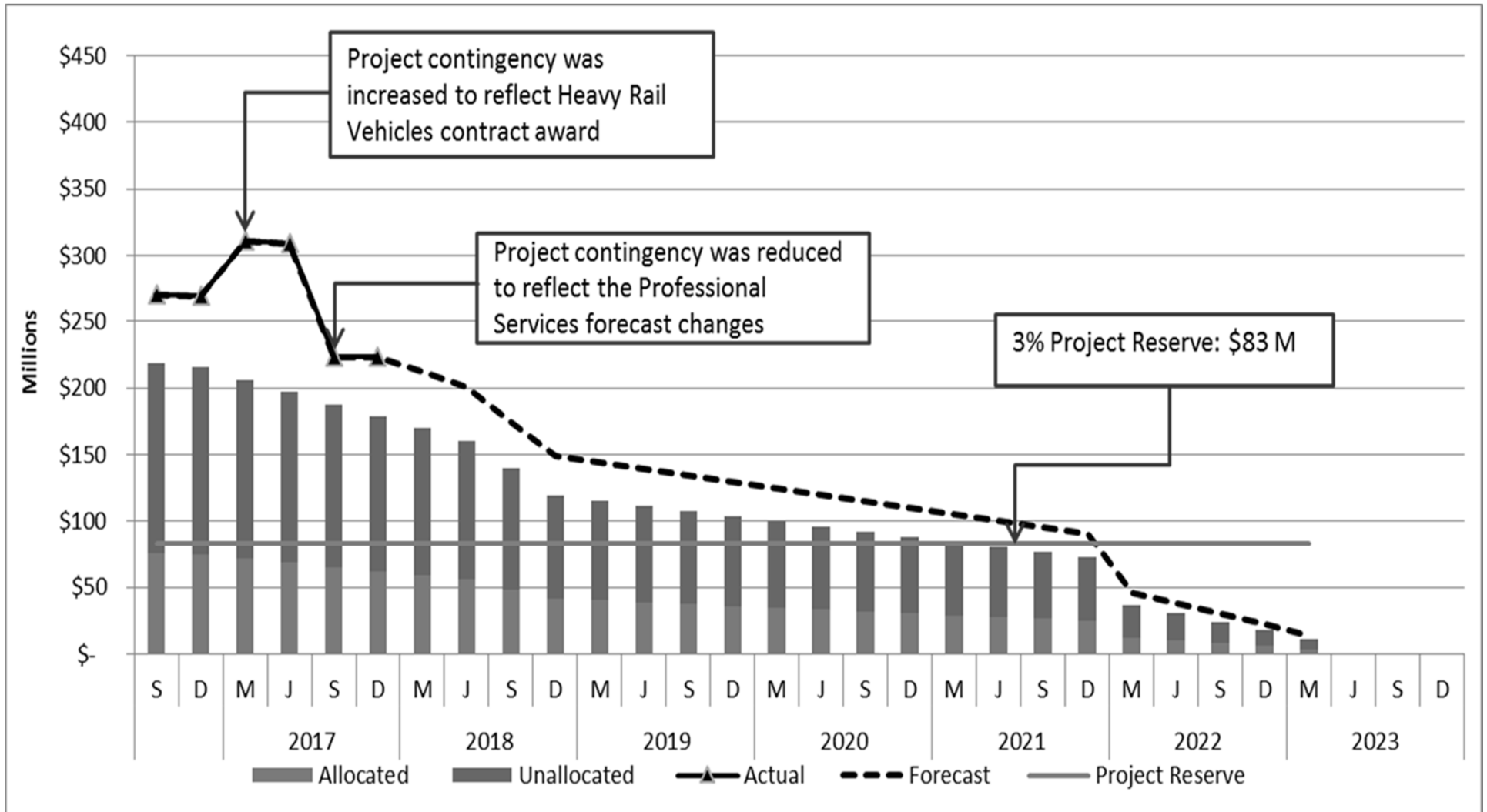
## Westside Purple Line Extension Section 1 Project Change Activity

Change Notice #	Description	Number of Mod/Change Orders	Cost Value
<b>TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:</b>		<b>149</b>	<b>\$ 30,009,798</b>
<b>TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:</b>		<b>46</b>	<b>More than \$15M</b>
<b>DESIGN/BUILD CONTRACT C1045</b>			
		35	
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	<b>Radio Subsystem Redundancy</b>		<b>Between \$1M - \$5M</b>
CN-43.2	Isolate 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	<b>Implement City of Beverly Hills Memorandum of Agreement (MOA)</b>		<b>Between \$10M - \$15M</b>
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-72.1	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-80.1	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	Power Duct Bank Conflict at La Brea (ECI-4)		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 Walkers 28 & 29		Less Than \$1 Million
CN-92	La Cienega - Impacts from Delayed SCE Lines/MH Abandonment		Less Than \$1 Million
CN-93	Center Muck Shaft at La Brea (ECI-4)		Less Than \$1 Million
CN-94	Negative Rail-to-Ground Voltage Device at Fairfax Station		Less Than \$1 Million
CN-96	La Cienega - TPSS Room Changes for SCE (Design and Construction)		Less Than \$1 Million
TBD	Fairfax - Piling Obstructions, Conflicts, Delays		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
TBD	La Cienega Tail Track FLS Issues		Less Than \$1 Million
<b>DESIGN/BUILD CONTRACT C1078</b>			
		11	
CN-11	<b>Schedule Impacts Due to Third Party</b>		<b>Between \$1M - \$5M</b>
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-18	Storm Drain - Differing Site Conditions		Less Than \$1 Million
TBD	Support of Building Art Work		Less Than \$1 Million
TBD	On-Site LIDs		Less Than \$1 Million
TBD	Hazardous Materials - Chalmers Pan Handle		Less Than \$1 Million
TBD	Betterment: 6th Street Viaduct - Site Re-Grading, Ornamental Fenc., Etc.		Less Than \$1 Million
TBD	Updated IT Standards on Data Drops and Outlets		Less Than \$1 Million
TBD	Remove Division 20 Concrete Medians		Less Than \$1 Million
TBD	<b>TOTAL MODIFICATIONS AND CHANGE ORDERS</b>	<b>195</b>	
<b>PROFESSIONAL SERVICES CONTRACTS</b>			
<b>Design Support Services During Construction - CONTRACT PS43502000</b>			
<b>TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS:</b>		<b>22</b>	<b>\$ 92,608,453</b>
<b>TOTAL PENDING MODIFICATIONS</b>		<b>0</b>	
<b>TOTAL MODIFICATIONS AND CHANGE ORDERS</b>		<b>22</b>	
<b>Construction Management Support Services - CONTRACT MC071</b>			
<b>TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS:</b>		<b>4</b>	<b>\$ 70,297,456</b>
<b>TOTAL PENDING MODIFICATIONS</b>		<b>0</b>	
<b>TOTAL MODIFICATIONS AND CHANGE ORDERS</b>		<b>4</b>	
<b>OTHER - THIRD PARTY AGREEMENTS</b>			

# Westside Purple Line Extension – Section 1

November 2017

## Project Cost Contingency Drawdown



# Westside Purple Line Extension – Section 2

## Change Activity

November 2017



Change Notice #	Description	Number of Mod/Change Orders	Cost Value
<b>TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS</b>		4	\$ 136,893
<b>TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:</b>		9	<b>More than \$15 Million</b>
<b>DESIGN/BUILD CONTRACT C1120</b>			
CN-3.1	Century City Constellation Station: Main Entrance (Design)		Less Than \$1 Million
CN-4.1	Final Design Location of Third Party Utility Relocation		Less Than \$1 Million
CN-7	Deletion of Cross Passage Geotech Boring		Less Than \$1 Million
CN-8	Additional Abatement at Former ACE Gallery Site		Less Than \$1 Million
CN-9	Century City Constellation Station Train Headway Revisions		Less Than \$1 Million
CN-10	Worksite Traffic Control for SCG & AT&T Advanced Utility Relocation		Between \$1M - \$5 M
TBD	Century City Constellation Station West Ancillary & OPE Reconfiguration (Construction)		Less Than \$1 Million
TBD	Century City Constellation Station: Main Entrance (Construction)		More Than \$15 Million
TBD	AT&T Building Demolition		Between \$1M - \$5 M
<b>TOTAL MODIFICATIONS AND CHANGE ORDERS</b>		13	\$ -
<b>PROFESSIONAL SERVICES CONTRACT</b>			
Design Support Services During Construction			
<b>TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS</b>		0	\$ -
<b>TOTAL PENDING MODIFICATIONS</b>		0	\$ -
<b>TOTAL MODIFICATIONS</b>		0	\$ -
Construction Management Support Services			
<b>TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS</b>		0	\$ -
<b>TOTAL PENDING MODIFICATIONS</b>		0	\$ -
<b>TOTAL MODIFICATIONS</b>		0	\$ -
<b>OTHER - THIRD PARTY AGREEMENTS</b>			

# Westside Purple Line Extension – Section 2

## Project Cost Contingency Drawdown

November 2017

