



## Board Report

File #: 2018-0217, File Type: Oral Report / Presentation

Agenda Number: 30.

### CONSTRUCTION COMMITTEE MAY 17, 2018

**SUBJECT: PROGRAM MANAGEMENT MAJOR PROJECT STATUS  
REPORT**

**ACTION: RECEIVE ORAL REPORT**

#### RECOMMENDATION

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

#### DISCUSSION

- A. Update report covering the month of May 2018 by the Chief Program Management Officer; and
- B. At the January 26, 2018 Board meeting, the Board approved the continuation and expansion of the authority delegation within Life of Project (LOP) budget management on all Transit and Regional Rail Capital Projects program-wide. Staff is directed to provide quarterly reports on change orders and modifications that are above \$500,000. The next quarterly report is scheduled for July 19, 2018.

Prepared by:

- **Master Schedule** - Julie Owen, DEO, Project Mgmt., (213) 922-7313
- **Crenshaw/LAX** - Sameh Ghaly, Sr EO Project Mgmt., (213) 418-3369
- **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
- **The New Blue** - Androush Danielians, EO Project Engr., (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

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May 2018

**Construction Committee**

Los Angeles County Metropolitan Transportation Authority



# PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			Project is 81% complete. The remaining cost contingency is below 1.2% of the total project budget (\$23 million in contingency remains). Contractor is at least 56 days behind schedule. Metro and contractor are working together to implement mitigation strategies to maintain planned revenue service in October 2019.
Regional Connector			Project is 50% complete and proceeding on schedule and cost forecast is within Life of Project budget.
Westside Purple Line Extension-Section 1			Project is 34% complete.
Westside Purple Line Extension-Section 2			Project is 6% complete with no significant issues.
Westside Purple Line Extension-Section 3			<ul style="list-style-type: none"> <li>FTA approval for Entry into Engineering is expected in Spring 2018.</li> <li>FTA approval for Letter of No Prejudice (LONP) is expected in Summer 2018.</li> <li>Award of Contract C1151 Tunnel will occur after LONP approval.</li> </ul>
Patsaouras Plaza			Project is 60% complete with approved substantial completion date of December 2018.
Willowbrook/Rosa Parks Station			Design activities are complete. Early Start Phase (Package E) contract awarded, second contract (Package A and C) in procurement process.
Metro Blue Line Projects			<p>Pedestrian Swing Gate project 98% complete. All gates except the ones in 41<sup>st</sup> Street and Vernon are operational. MBL Signal Rehab project 85% design work is in progress. Bids received April 13, 2018. MBL System and Track Refurbishment.</p> <p>City of Long Beach Fare Gates infrastructure design 100% complete for two stations.</p>

May 2018



On target



Possible problem



Major issue



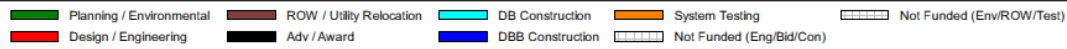
Metro 2

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													16-Apr-18
Activity Name	PMIS Project Manager	Start	Finish	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031
				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
<b>Transit Projects</b>		01-Mar-07 A	26-Jun-57														
<b>Environmental</b>		01-Mar-07 A	26-Jun-57														
North San Fernando Valley BRT Improvements	Cencic	04-Jan-17 A	02-Jun-25														
North Hollywood to Pasadena BRT	Richmai	30-Jan-15 A	02-Sep-25														
Orange Line Grade Separations	Patel	23-May-16 A	30-Jun-25														
East San Fernando Valley Transit Corridor	Davis	11-Oct-10 A	16-Jul-29														
Vermont BRT Corridor	Cencic	30-Jan-15 A	05-Jun-29														
Crenshaw Northern Extension	Moosavi	30-Mar-18 A	17-Jun-47														
West Santa Ana Transit Corridor	Pan	01-Oct-09 A	09-Nov-28														
Sepulveda Phase 1 - Express Lanes	Wong	02-Apr-18	15-Jul-26														
Sepulveda Phase 2 - Transit Corridor	Zelmer	26-Apr-17 A	27-Mar-36														
Sepulveda Phase 3 - Westwood to LAX	Mieger	26-Apr-17 A	26-Jun-57														
Green Line Ext. Crenshaw Blvd in Torrance	Khanna	23-Mar-17 A	15-May-30														
Eastside Transit Corridor Phase 2 (1 Align)	Liu	01-Mar-07 A	08-Nov-35														
<b>Design</b>	Zelmer	04-Oct-10 A	29-Dec-23														
Airport Metro Connector	Zelmer	04-Oct-10 A	29-Dec-23														
<b>Procurement</b>		02-Oct-13 A	01-Jun-27														
Purple Line Extension Section 3	McKenna	29-Feb-16 A	14-Sep-26														
Gold Line Foothill Extension Phase 2B	Meade	02-Oct-13 A	01-Jun-27														
<b>Construction Contract</b>		01-Jun-07 A	30-Aug-25														
Crenshaw/LAX Transit Corridor	Beauvoir	01-Jul-09 A	20-Dec-19														
Regional Connector Transit Corridor	Baker	26-Jan-09 A	07-Dec-21														
Purple Line Extension Section 1	Cohen	01-Jun-07 A	29-Nov-23														
Purple Line Extension Section 2	McKenna	02-Mar-15 A	30-Aug-25														
<b>Transit Facilities</b>		07-May-15 A	23-Jun-23														
<b>Design</b>	Meade	16-May-16 A	23-Jun-23														
Div 20 Portal/Turnback	Meade	16-May-16 A	23-Jun-23														
<b>Construction Contract</b>	Lindholm	07-May-15 A	30-Dec-20														



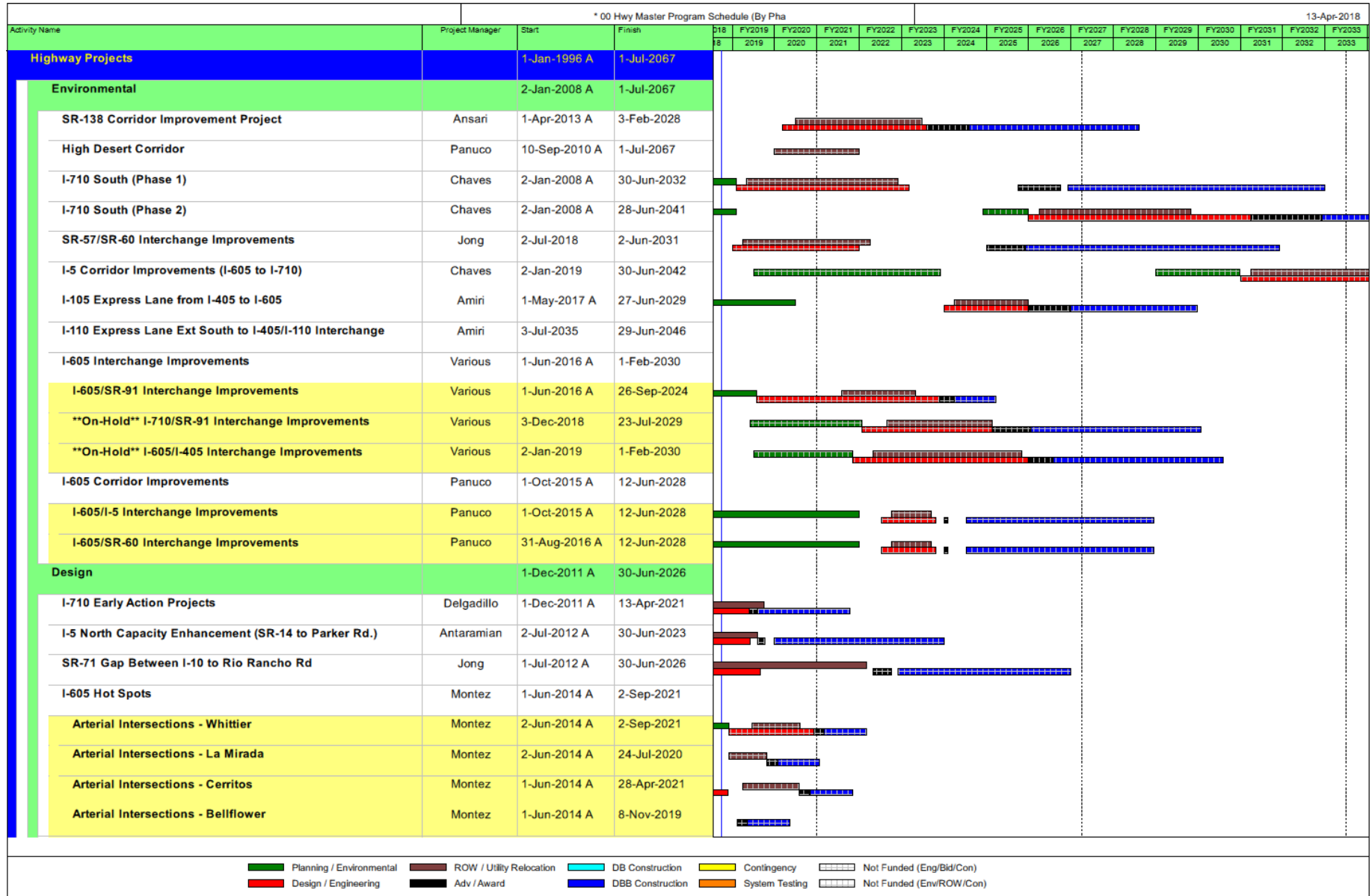
# TRANSIT MASTER SCHEDULE (Page 2 of 2)

TASK filters: Code Cleanup_1, Name contains, Show on Master Schedule, WBS Categories_WBS				* 00 Master Program (By Phase) no contin													16-Apr-18
Activity Name	PMIS Project Manager	Start	Finish	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	FY2031 2031
<b>Willowbrooks/Rosa Parks Station Improvement</b>	Lindholm	07-May-15 A	30-Dec-20														
<b>Regional Rail Projects</b>	Owens	02-Sep-13 A	03-Feb-28														
<b>Environmental</b>	Owens	01-Dec-14 A	03-Feb-28														
Link Union Station	Owens	01-Dec-14 A	03-Feb-28														
<b>Design</b>	Owens	01-Apr-15 A	27-Sep-22														
Brighton to Roxford Double Track	Owens	01-Sep-15 A	22-Apr-22														
Lone Hill to CP White	Owens	03-May-16 A	27-Sep-22														
Rosecrans & Marquardt Grade Separation	Owens	01-Apr-15 A	14-Sep-21														
<b>Construction Contract</b>	Owens	02-Sep-13 A	01-Jun-18														
Bob Hope Airport Station	Owens	02-Sep-13 A	01-Jun-18														
<b>Bus Facilities Projects</b>	Gurrola	31-Mar-14 A	14-Feb-19														
<b>Construction Contract</b>	Gurrola	31-Mar-14 A	14-Feb-19														
Patsouras Plaza	Gurrola	31-Mar-14 A	14-Feb-19														
<b>State of Good Repair/Improvements</b>		01-Jul-13 A	31-Jul-20														
<b>Design</b>		21-Sep-15 A	31-Jul-20														
210 Freeway Barrier Rail	Danielans	13-Jun-16 A	28-Jun-19														
MBL Resignaling	Wei	21-Sep-15 A	31-Jul-20														
<b>Construction Contract</b>		01-Jul-13 A	29-Jun-18														
Pershing Sq. Esc. Replace & New Canopy Project	Patel	11-May-15 A	31-Aug-17 A														
MBL Ped Safety Enhancement At-Grade Crossing	Chong	01-Jul-13 A	29-Jun-18														
<b>Small Capital</b>	Joshi	14-Jul-15 A	07-Mar-22														
<b>Design</b>	Joshi	01-Mar-16 A	07-Mar-22														
Eastside Access Improvement Project	Joshi	01-Mar-16 A	07-Mar-22														
<b>Procurement</b>	Joshi	14-Jul-15 A	28-Feb-20														
Rail to Rail	Joshi	14-Jul-15 A	28-Feb-20														

■ 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)

# HIGHWAY MASTER SCHEDULE (Page 1 of 2)



# HIGHWAY MASTER SCHEDULE (Page 2 of 2)


				* 00 Hwy Master Program Schedule (By Pha)													13-Apr-2018		
Activity Name	Project Manager	Start	Finish	F18	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033
				18	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
<b>Construction Contract</b>		1-Jan-1996 A	1-Aug-2022																
South Bay (I-405, I-110, I-105 and SR-91)	Panuco	2-Jan-2014 A	4-Mar-2022																
I-405 Crenshaw Blvd On/Off Ramp Improvements	Panuco	2-Jan-2014 A	4-Mar-2022																
I-405/I-110 Interchange Improvements	Panuco	2-Jan-2014 A	10-Apr-2019																
Countywide Soundwall Construction	Owen	15-Dec-2010 A	21-Jul-2021																
Package #10 - SR-210 Fair Oaks, Lake and Baldwin to San	Owen	2-Sep-2014 A	21-Jul-2021																
Package #11 - SR-170 from 101 to Sherman Way and I-405	Owen	15-Dec-2010 A	21-Dec-2020																
I-5 North Capacity Enhancements SR-134 to SR-118	Subeh	1-Apr-1998 A	15-Jun-2020																
SR-118 to SR-170 (Segment 1A)	Subeh	30-Jul-1999 A	15-Jul-2016 A																
SR-170 to Buena Vista (Segments 2)	Subeh	1-Apr-1998 A	16-Dec-2015 A																
Magnolia to SR-134 (Segment 4)	Subeh	1-Apr-1998 A	18-Dec-2019																
Buena Vista to Magnolia (Segment 3)	Subeh	1-Apr-1998 A	15-Jun-2020																
I-5 South Capacity Enhancements from I-605 to Orange Cour	Gau	1-Jan-1996 A	1-Aug-2022																
I-5 Carmenita Road Interchange	Gau	1-Jan-2001 A	22-Mar-2018 A																
Alondra (Segment 1)	Gau	1-Jan-2001 A	19-May-2016 A																
Imperial Highway (Segment 4)	Gau	1-Jan-2001 A	26-Jul-2019																
Shoemaker - Rosecrans (Segment 3)	Gau	1-Jan-1996 A	28-Nov-2018																
Florence (Segment 5)	Gau	1-Jan-2001 A	30-Jul-2020																
Valley View (Segment 2)	Gau	1-Jan-1996 A	1-Aug-2022																

■ Planning / Environmental   
 ■ ROW / Utility Relocation   
 ■ DB Construction   
 ■ Contingency   
  Not Funded (Eng/Bid/Con)

■ Design / Engineering   
 ■ Adv / Award   
 ■ DBB Construction   
 ■ System Testing   
  Not Funded (Env/ROW/Con)



# CRENSHAW/LAX TRANSIT PROJECT

 <b>BUDGET</b>		
	<b>Current</b>	<b>Forecast</b>
<b>TOTAL COST</b>	<b>\$2,058M</b>	<b>\$2,058M</b>

 <b>SCHEDULE</b>		
	<b>Current</b>	<b>Forecast</b>
<b>REVENUE OPERATION</b>	<b>Oct 2019</b>	<b>Oct 2019</b>

- Overall Project Progress is 81% complete; contractor needs to mitigate at least a 56 day schedule delay
- The Green Line tie-in to Crenshaw/LAX Line completed one week ahead of schedule
- Contractor continues critical track work installation
- Contractor continues concrete wall, roof, and walkway placements for cut-and-cover tunnels
- Contractor continues roof placements for three underground stations along Crenshaw Boulevard
- The Southwestern Yard Maintenance Facility is progressing on schedule



UG #3 Cut-and-cover tunnel – track work plinth construction      Southwestern Yard – south yard track leads & APM columns

May 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 7

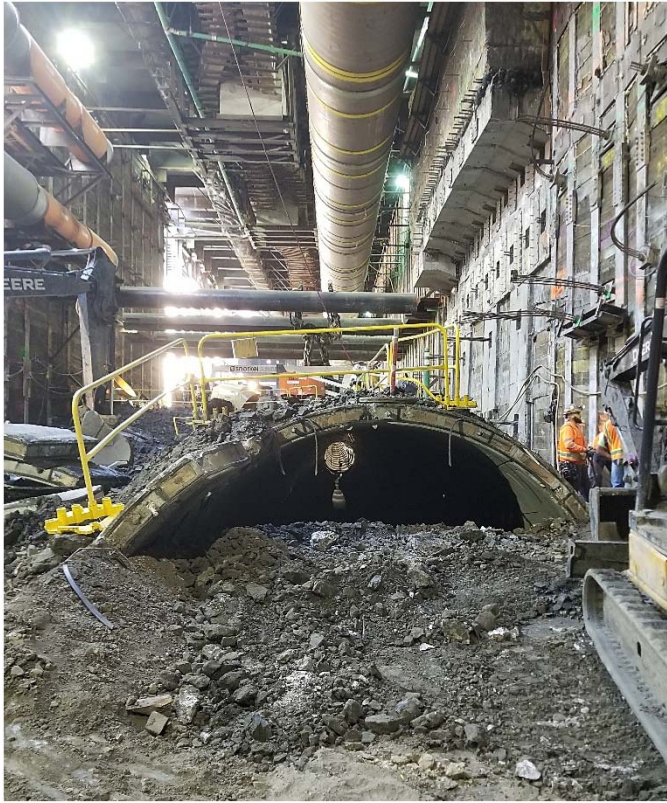
# REGIONAL CONNECTOR TRANSIT PROJECT

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

\* Includes Board approved LOP budget plus finance costs.

OK SCHEDULE		
	Current	Forecast
REVENUE OPERATION	Dec 2021	Dec 2021

- Overall Project Progress is 50%
- Underground:** Preparations for Sequential Excavation Method (SEM) Cavern excavation near complete; tunnel invert and walkway installation is ongoing
- Little Tokyo/Arts District Station:** Excavation and utility support resumed at station and Wye
- Historic Broadway Station:** Underpinning of LA Times Building in progress; station box and ancillary area excavation continues; bored tunnel segment breakthrough underway
- Grand Av Arts/Bunker Hill Station:** Permanent structural concrete construction continues
- Flower Street:** Utility protection/relocations, support of excavation, decking and excavation continues



Interface of underpinning, bored tunnel breakthrough and Sequential Excavation Method (SEM) Cavern in Historic Broadway Station

May 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 8

# WESTSIDE PURPLE LINE EXTENSION – SECTION 1

## BUDGET

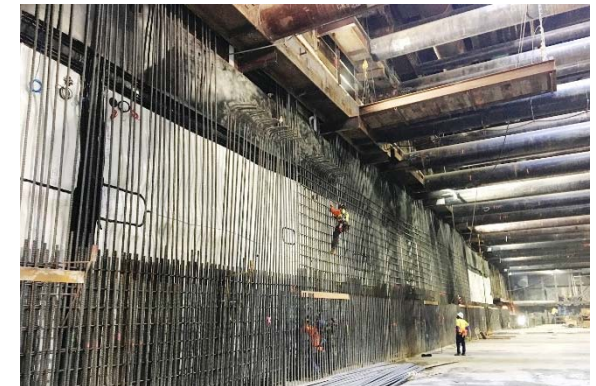
	Current	Forecast
TOTAL COST*	\$3,154M	\$3,154M

\* Includes Board approved LOP budget plus finance costs.

## SCHEDULE

	Current	Forecast
REVENUE OPERATION	Oct 2024 (FFGA)	Nov 2023

- Overall Project Progress is 34% complete.
- At the Wilshire/Western Retrieval Shaft, the 10-day closure for street decking was completed February 26, 2018. Installation of the water treatment system, dewatering wells, ventilation and instrumentation is on-going.
- Concrete placement at the Wilshire/La Brea Station invert slab started on February 13, 2018. Vertical conveyor construction at the south shaft site continues, as well as installation of invert rebar and embeds. Concrete wall pours are scheduled to start in April 2018.
- At the Wilshire/Fairfax Station, station excavation and the installation of walers and struts continues.
- Station excavation under the concrete deck at Wilshire/La Cienega Station continues. Installation of the dewatering system and the utility hanging effort are on-going.
- Tunnel Boring Machines (TBMs) were delivered to Los Angeles in December 2017. All of the TBM components are at the contractor's Riverside staging area. Tunneling is planned to start in August 2018.



Wilshire/La Brea Station



Wilshire/La Cienega Station

May 2018

Construction Committee

Los Angeles County Metropolitan Transportation Authority



On target



Possible problem



Major issue



Metro 9



# WESTSIDE PURPLE LINE EXTENSION – SECTION 2

## BUDGET

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

\* Includes Board approved LOP budget plus finance costs.

## SCHEDULE

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

- Overall project progress is 6% complete.
- Final design progress is 57% complete.
- Century City Constellation: AT&T and LADWP (Power) utility relocations are ongoing.
- Wilshire/Rodeo: Southern California Gas (SCG) and AT&T utility relocations are ongoing.
- Negotiations with the City of Beverly Hills (COBH) for a Memorandum of Agreement (MOA) for the C1120 Contract began in August 2017 and are anticipated to complete in Spring 2018.



AT&T Utility Work in Century City



SCG Utility Work in Beverly Hills

May 2018



On target



Possible problem



Major issue


Construction Committee


Los Angeles County Metropolitan Transportation Authority



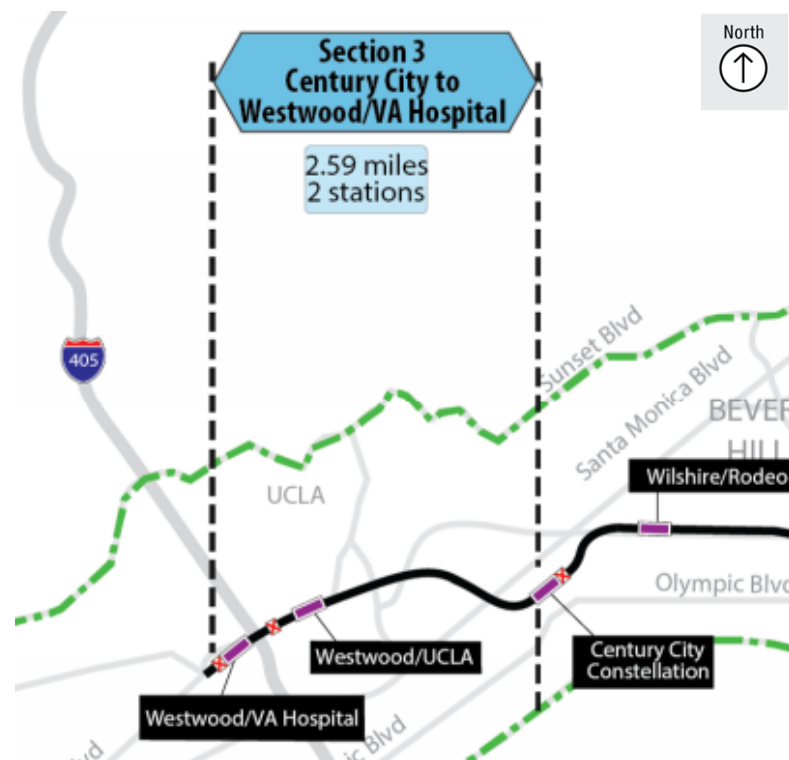
Metro 10

# WESTSIDE PURPLE LINE EXTENSION – SECTION 3

 BUDGET	Current	Forecast
TOTAL COST	TBD	\$3,587M

 SCHEDULE	Current	Forecast
REVENUE OPERATION	TBD	2026

- FTA approval for Entry into Engineering is expected in Spring 2018.
- FTA approval for Letter of No Prejudice (LONP) for the Tunnel Contract is expected in Summer 2018.
- C1151 Tunnel Contract – Technical proposals were received on November 13, 2017. Price proposals were received on April 6, 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. Proposals are due on June 22, 2018.
- C1153 Advanced Utility Relocations (AUR) Contract – Construction began in April 2018.



May 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 11

# PATSAOURAS PLAZA BUSWAY STATION

<b>OK BUDGET</b>		
	<b>Current</b>	<b>Forecast</b>
<b>TOTAL COST</b>	<b>\$39.7M</b>	<b>\$39.7M</b>

<b>◇ SCHEDULE</b>		
	<b>Current</b>	<b>Forecast</b>
<b>SUBSTANTIAL COMPLETION</b>	<b>Dec 2018</b>	<b>Mar 2019</b>

- Overall project progress is 60% complete
- All concrete deck pours completed, falsework removal in process
- Elevator foundations in process at south end of bus plaza
- Human bones continue to be discovered, Native American monitor and coroner involved (no delay yet)
- Vignes Street on/off-ramp intermittent non-peak closures ongoing, should wind down in May 2018
- Traffic switch to outside lanes and station construction starts May 2018
- Reviewed Project Status concerns with contractor, contractor has been responsive with submittals



View of project site



Elevator Foundations



Bridge Deck

May 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 12



# WILLOWBROOK/ROSA PARKS STATION

OK BUDGET		
	Current	Forecast
TOTAL COST	N/A	\$109.3M

OK SCHEDULE		
	Current	Forecast
SUBSTANTIAL COMPLETION	July 2020	July 2020

- Early Start Phase (Package E) Construction mobilization has begun.
- Package A and C at 100% design completion. Procurement of this contract is underway. Package includes provisions for the closure of the Blue Line (the New Blue).
- Pedestrian grade crossing documents submitted to Union Pacific and Public Utilities Commission.



South Platform Improvements



Central Plaza & Bus Bays



Main Plaza

May 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	98%	June 2018	OK
▪ <b>City of Long Beach Fare Gates Design</b>	\$6M*	100%(Design)	Mar 2018	OK
▪ <b>Blue Line Signal Rehabilitation</b> (OCS, Signals, Div. 11)	\$119M	16%	Aug 2019	OK
▪ <b>Blue Line Track and System Refurbishment</b> (Track, Turnouts, OCS and includes 2 Stations Fare Gates Phase I)	\$90.8M	N/A	Aug 2019	OK
<b>Total: \$247.2M</b>				

## Project Status

- **Pedestrian Gates**
  - All Gates except the ones in 41<sup>st</sup> Street and Vernon are complete and operational.
- **City of Long Beach Fare Gates Design**
  - Design completed on 5<sup>th</sup> and Wardlow Stations
- **MBL Signal Rehab 85% Design in Progress**
- **MBL Track and System Refurb**
  - Received bids on April 13, 2018



\*Budget Estimate

May 2018

OK On target

Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority

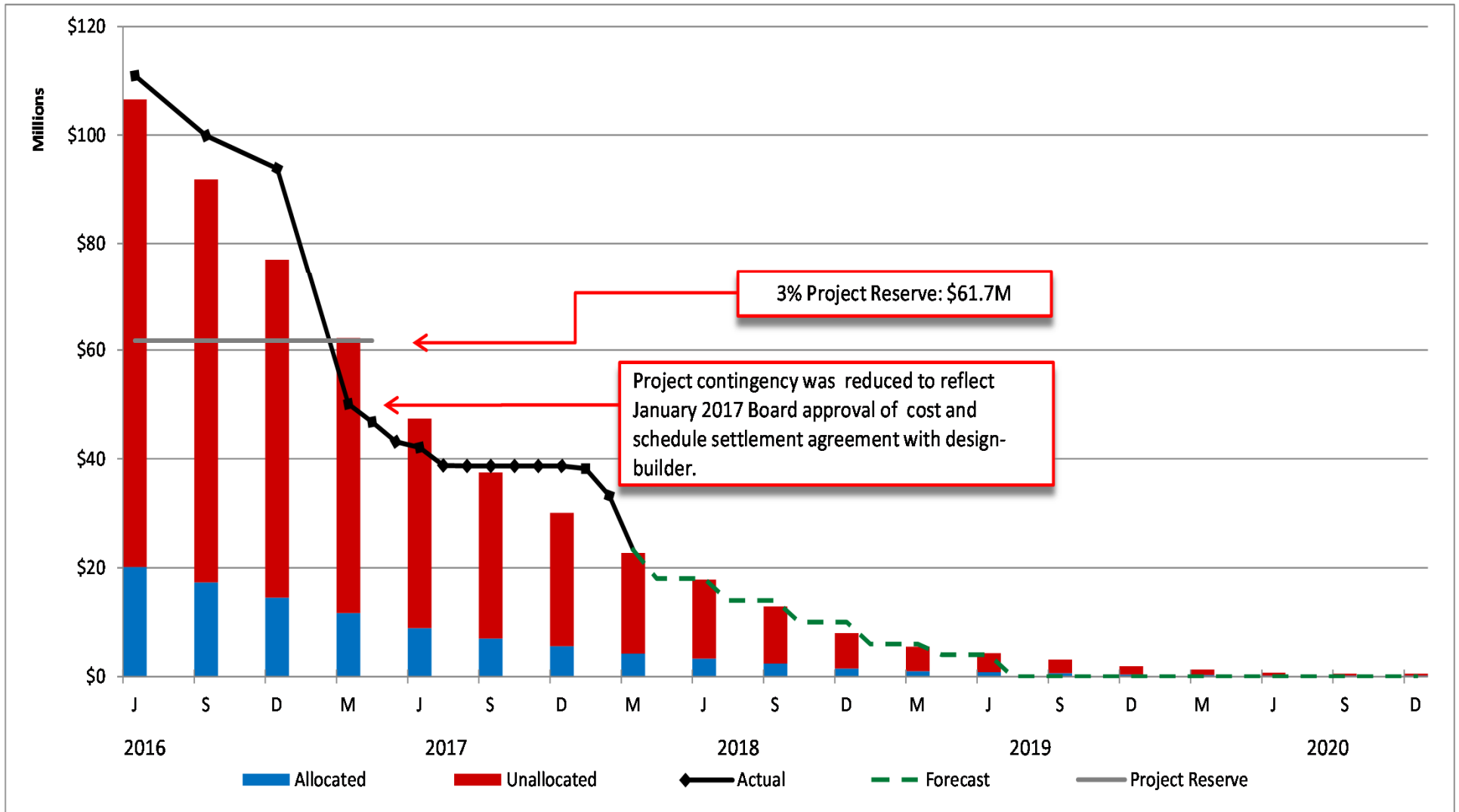




# Crenshaw/LAX Transit Project

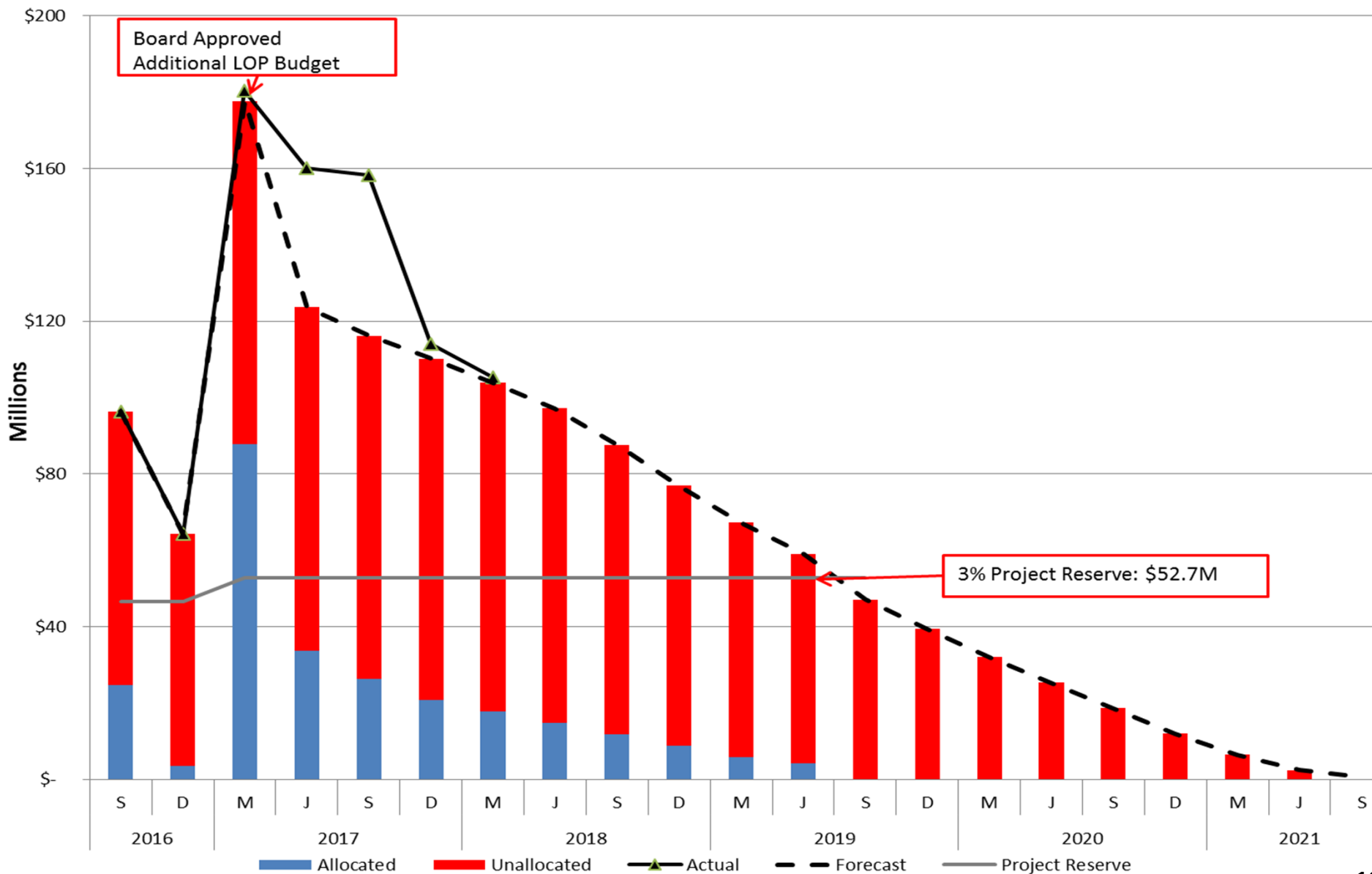
## Project Cost Contingency Drawdown

March 2018



# Regional Connector

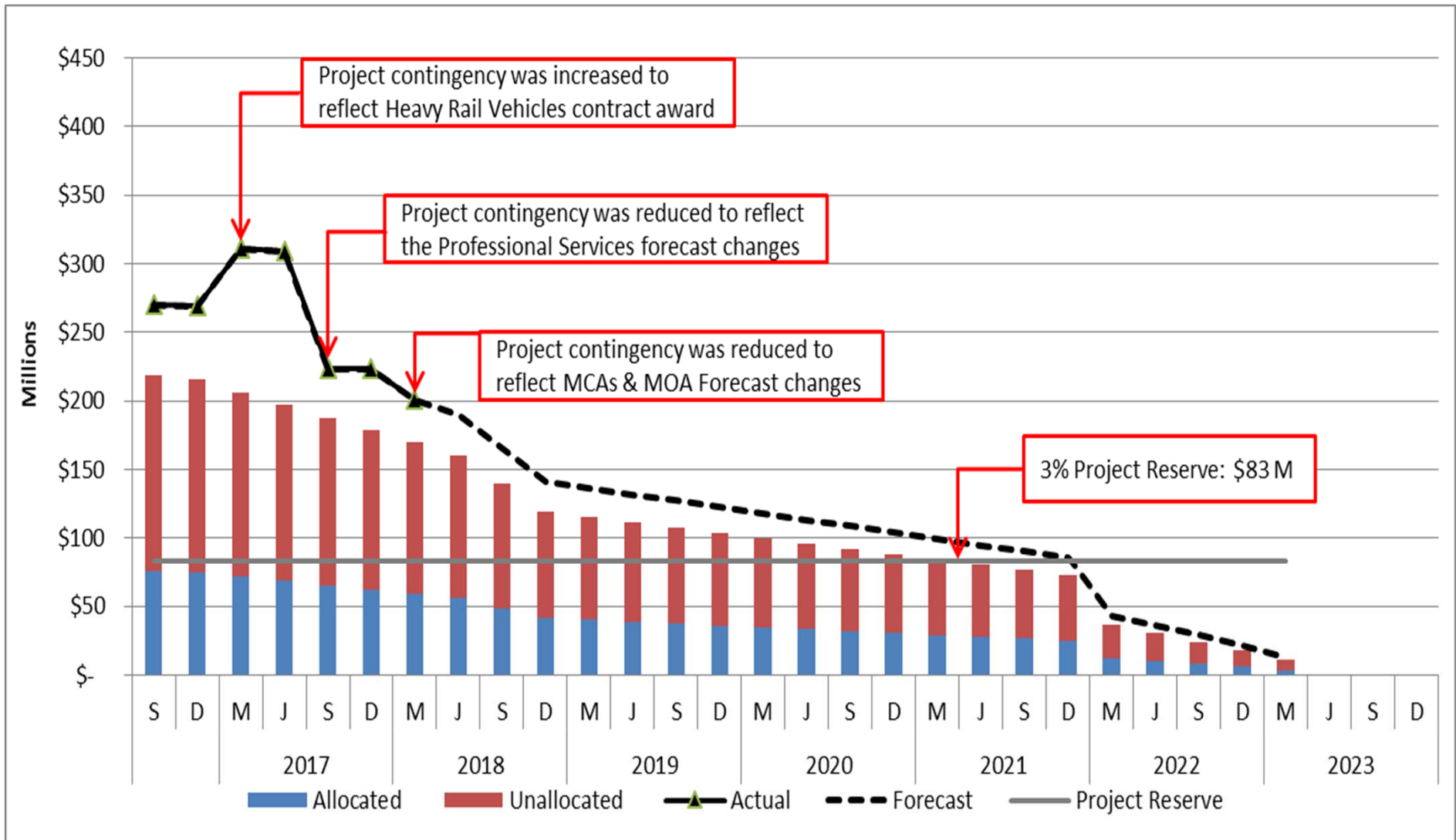
## Project Cost Contingency Drawdown



# Westside Purple Line Extension – Section 1

## Project Cost Contingency Drawdown

March 2018



# Westside Purple Line Extension – Section 2

## Project Cost Contingency Drawdown

March 2018

