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

Metro

Board Report

File #: 2019-0017, **File Type:** Oral Report / Presentation **Agenda Number:** 25.

CONSTRUCTION COMMITTEE
FEBRUARY 21, 2019

SUBJECT: PROGRAM MANAGEMENT MAJOR PROJECT STATUS REPORT

ACTION: ORAL REPORT

RECOMMENDATION

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

DISCUSSION

Update report covering the month of February 2019 by the Chief Program Management Officer.

ATTACHMENTS

Attachment A - Program Management Major Project Status Report

Prepared by:

- **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 -** Kimberly Ong, EO Project Mgmt., (323) 903-4112
- **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 -** Timothy Lindholm, EO Project Engr., (213) 922-7297
- **I-210 Barrier Replacement -** Androush Danielians, EO Project Engr., (213) 922-7598
- **I-5 North -** Abdollah Ansari, Sr EO Construction & Engr., (213) 922-4781
- **I-5 South -** Abdollah Ansari, Sr EO Construction & Engr., (213) 922-4781
- **Presentation -** Shannon Hanley, Chief Administrative Analyst, (213) 922-1350

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Program Management
Major Project Status Report

Presented By

Richard Clarke

Chief Program Management Officer

February 2019

Construction Committee

Los Angeles County Metropolitan Transportation Authority

Metro

PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX	!	!	Project is 90% complete. Metro issued non-compensable time extension to contractor extending Contract Substantial Completion Milestone to December 2019. The forecast revenue service date is Spring 2020.
Regional Connector	OK	OK	Project is 55% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 1	OK	OK	Project is 44% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 2	OK	OK	Project is 14% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3	OK	OK	Issued Contract C1151 (Tunnels) award to Frontier-Kemper/Tutor Perini Joint Venture on November 30, 2018 and issued Notice to Proceed on January 15, 2019.
Patsaouras Plaza	!	!	Project is approximately 65% complete. Metro issued Order of Suspension August 3rd due to archaeological and Native American issues. With anticipated construction delay of 10 months, significant impacts to project schedule and budget expected. Project expected to resume construction by late February 2019
Willowbrook/Rosa Parks Station	OK	OK	Package A is 15% complete with underground utility work in progress. Structural Steel installation to begin on mobility hub. Package B 100% bid package being finalized.
Metro Blue Line Projects	OK	OK	Early Start Work is at 95% completion. Established a combined schedule for three projects (including Willowbrook Station) and Metro internal work. New Blue shutdown work starts January 26, 2019.
I-210 Barrier Replacement	◆	◆	Finding effective mitigation measures to some of the non-standard freeway features along with mitigation measures to alleviate freeway traffic disruption during construction are delaying the project.
I-5 North: SR 118 to SR 134	!	◆	Segment 1 & 2 (SR 118 to Buena Vista) are complete and open to traffic. Segment 3 (Empire) is 71% complete. Segment 4 (Magnolia to SR-134) is 85% complete.
I-5 South: Orange County Line to I-605	◆	◆	Segment 2 (Valley View) is 37% complete. Segment 3(Rosecrans) is open to traffic. Segment 4 (Imperial) is 94% complete. Segment 5 (Florence) is 75% complete.

CRENSHAW/LAX TRANSIT PROJECT

BUDGET

	Current	Forecast
TOTAL COST	$2,058M	$2,058M

SCHEDULE

	Current	Forecast
REVENUE	Fall	Spring
OPERATION	2019	2020

- Overall Project Progress is 90% complete; addressing contractor construction schedule
- Contractor continues critical construction efforts in the five underground structures in the north end
- Completed major work in January for Crenshaw Line track and systems cut-over to Green Line
- Achieved substantial completion for Southwestern Yard Maintenance Facility (Division 16)
- Working with contractor to address open punch list items on City streets and sidewalks

Finishes and systems installation in underground station

Systems Integration Testing with vehicle at Division 16

OK On target ◆ Possible problem ! Major issue

REGIONAL CONNECTOR TRANSIT PROJECT

BUDGET

	Current	Forecast
TOTAL COST	$1,810M	$1,810M

* Includes Board approved LOP budget plus finance costs.

SCHEDULE

	Current	Forecast
REVENUE OPERATION	Winter 2021/2022	Winter 2021/2022

- Overall Project Progress is 55% complete
- **Underground**: SEM crossover cavern excavation approximately 95% complete; forecast completion March 6 – slightly ahead of schedule. Liner and plenum to follow
- **Little Tokyo/Arts District Station, WYE and 1st Street**: Excavation and related support of utilities are ongoing at WYE and 1st Street; structural concrete operations underway on station box walls
- **Historic Broadway Station:** Structural concrete continues with exterior walls in station box and entrance concourse
- **Grand Av Arts/Bunker Hill Station**: Structural concrete walls continue to be erected at multiple levels throughout station
- **Flower Street**: Excavation and utility protection south of 5th continues; invert placement underway between 4th and 5th Streets

Demolition progress of central walls of SEM

Rebar shear tie installation in Grand Av Arts/Bunker Hill Station

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	Fall	Fall
OPERATION	2024 (FFGA)	2023

- Overall Project Progress is 44% complete
- **Wilshire/Western Retrieval Shaft:** On January 11, 2019, the Tunnel Boring Machine (TBM) temporary support slab was poured. Civil restoration of the Wilshire/Western site is underway.
- **Wilshire/La Brea Station:** Concrete placement for interior load bearing walls continues. Shoring installation for the concourse deck has commenced.
- **Wilshire/Fairfax Station:** Mass excavation and Level D strut installation at the east end of the station continues. Grounding grid installation started mid-January 2019.
- **Wilshire/La Cienega Station:** Installation of Level C struts continues. Bottom of excavation is anticipated to be reached in May 2019.
- **Reach 1 TBM Progress (W/LB to W/W)**: TBM #1 - 2,856 ft. or 30%; TBM #2 – 1,597 ft. or 17% as of January 23, 2019

Wilshire/La Brea Station – TBM Support Slab

Reach 1 Tunneling

WESTSIDE PURPLE LINE EXTENSION – SECTION 2

OK BUDGET

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

* Includes Board approved LOP budget plus finance costs.

OK SCHEDULE

	Current	Forecast
REVENUE OPERATION	Winter 2026 (FFGA)	Summer 2025

- Overall project progress is 14% complete.
- Final design progress is 88% complete.
- **Century City Constellation**
  - Civil work for LADWP Power and AT&T were completed in December 2018. Cable pulling and splicing for both continues through November 2019.
  - Installation of the temporary LADWP power substation for the tunnel boring machines (TBMs) continues.
  - Contractor completed installation of all 88 soldier piles at the TBM launch box in January 2019.
  - Santa Monica bus layover construction is ongoing with an anticipated completion in February 2019.
  - AT&T parking structure demolition started in December 2018 and is ongoing with a forecasted completion in first quarter of 2019.
- **Wilshire/Rodeo**
  - Demolition of former Ace Gallery completed in December 2018.
  - Preparation for contractor utility relocations is ongoing.

Soldier Pile Installation in Century City

Concrete Placement at Soldier Pile in Century City

WESTSIDE PURPLE LINE EXTENSION – SECTION 3

BUDGET

	Current	Forecast
TOTAL COST*	TBD	$3,675M

* Includes finance costs.

SCHEDULE

	Current	Forecast
REVENUE OPERATION	TBD	2027

- Received FTA's approval of 130c environmental document on December 21, 2018.
- C1151 Tunnel Contract – Contract award to Frontier-Kemper/Tutor Perini Joint Venture was issued on November 30, 2018 and Notice to Proceed was issued on January 15, 2019.
- C1152 Stations, Trackwork and Systems Contract – Contract award is subject to Board approval and FTA's approval of a Full Funding Grant Agreement (FFGA).
- C1153 Advanced Utility Relocations (AUR) Contract – Overall progress is 71% complete.

Conduit Encasing on Wilshire Blvd.

Conduit Installation on Wilshire Blvd.

PATSAOURAS PLAZA BUSWAY STATION

BUDGET	Current	Forecast
TOTAL COST	$39.7M	$TBD

SCHEDULE	Current	Forecast
SUBSTANTIAL COMPLETION	Winter 2018	March 2020

- Overall project progress approximately 65% complete
- Project contractor and construction suspension continues due to archaeological and Native American resource issues
  - Project team is working diligently to resume construction with FTA and the consulting parties by late February/early March 2019
    - However, this date may be impacted by Federal government shutdown
- Archaeological investigation and treatment field work began on November 12, 2018, and expected to be completed early February 2019.
- Archaeological and Native American issues will deplete project contingency, requiring Life of Project (LOP) budget increase
  - Metro concluded global settlement negotiations with contractor on December 14, 2018, with expected Board Report in March 2019

WILLOWBROOK/ROSA PARKS STATION

OK BUDGET

	Current	Forecast
TOTAL COST	$109.3M	$109.3M

OK SCHEDULE

	Current	Forecast
SUBSTANTIAL COMPLETION	Summer 2020	Summer 2020

- Package A: Utility Work in progress with main cisterns installed. Decking and framing for Customer Service Building beginning. Structural steel installation set to start on the mobility hub.
- Package C: Construction continues to make preparation for Blue Line shutdown.
- Package B: Finalizing 100% bid Package.

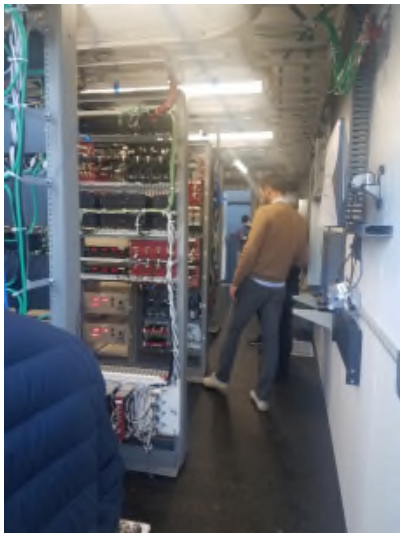
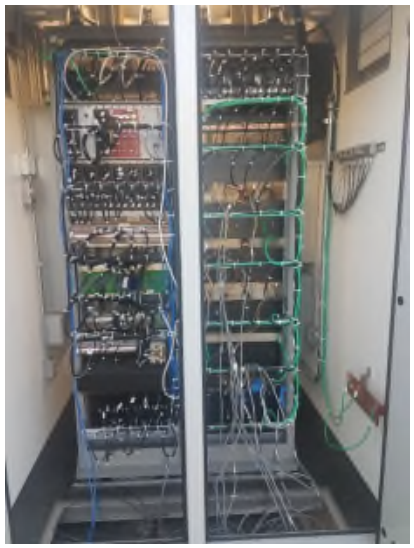
Early Start Construction and Demolition for Package A+C

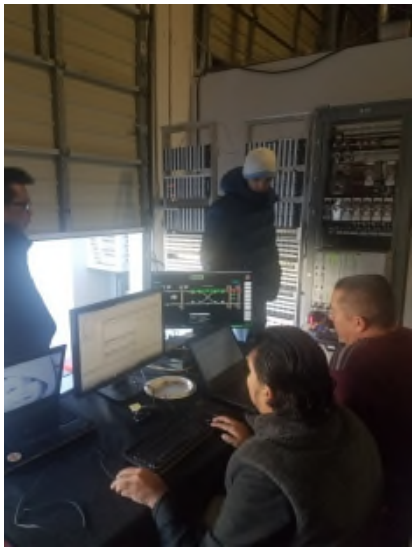
THE NEW BLUE

OK BUDGET	Current	Forecast
TOTAL COST	$221.3M	$221.3M

OK SCHEDULE	Current	Forecast
SUBSTANTIAL COMPLETION	Fall 2019	Fall 2019

- MBL Resignaling Design is 97% complete; Early Start underground work is 90% Completed
- The first Factory Acceptance Test was successful for the new Compton Interlocking
- First Track Coordination meeting took place January 15, 2019 and New Blue shutdown work commenced on January 26, 2019



Compton Interlocking Factory Testing

I-210 BARRIER REPLACEMENT PROJECT

BUDGET

	Current	Forecast
TOTAL COST	$11.08M Design	$22.54M Design

SCHEDULE

	Current	Forecast
Complete Design (Proj 1)	Summer 2019	Summer 2019
Complete Design (Proj 2)	Spring 2020	Spring 2020

- Conducting traffic micro-simulation studies to quantify the traffic delays during construction which are expected to be beyond the normal acceptable range and provide for effective mitigation measures.
- Coordinating mitigation measures with Caltrans to address existing non-standard freeway features and other non-standard features caused by this project
- Project 1: Segment from Michillinda to Iconic Bridge – Continuing environmental studies
- Project 2: Segment from west end of the project to Michillinda – Continuing traffic micro-simulation studies
- Separate Board report to request authorization to complete final design.

Newly Installed Caltrans Freeway Sign

Incident in 2014

Newly Installed Speed Limit Sign

I-5 Construction Projects (By Caltrans)

I-5 NORTH: SR 118 TO SR 134

BUDGET	Current	Forecast
TOTAL COST	$880.9M	TBD

SCHEDULE	Current	Forecast
ANTICIPATED PROJECT COMPLETION	Spring 2022	Summer 2022

NORTH

SR-170 to SR-118
COMPLETED

Buena Vista Street to
SR-170
COMPLETED

Empire Avenue Interchange
71% Complete

SR-134 to Magnolia Boulevard
85% Complete

February 2019

OK On target Possible problem Major issue

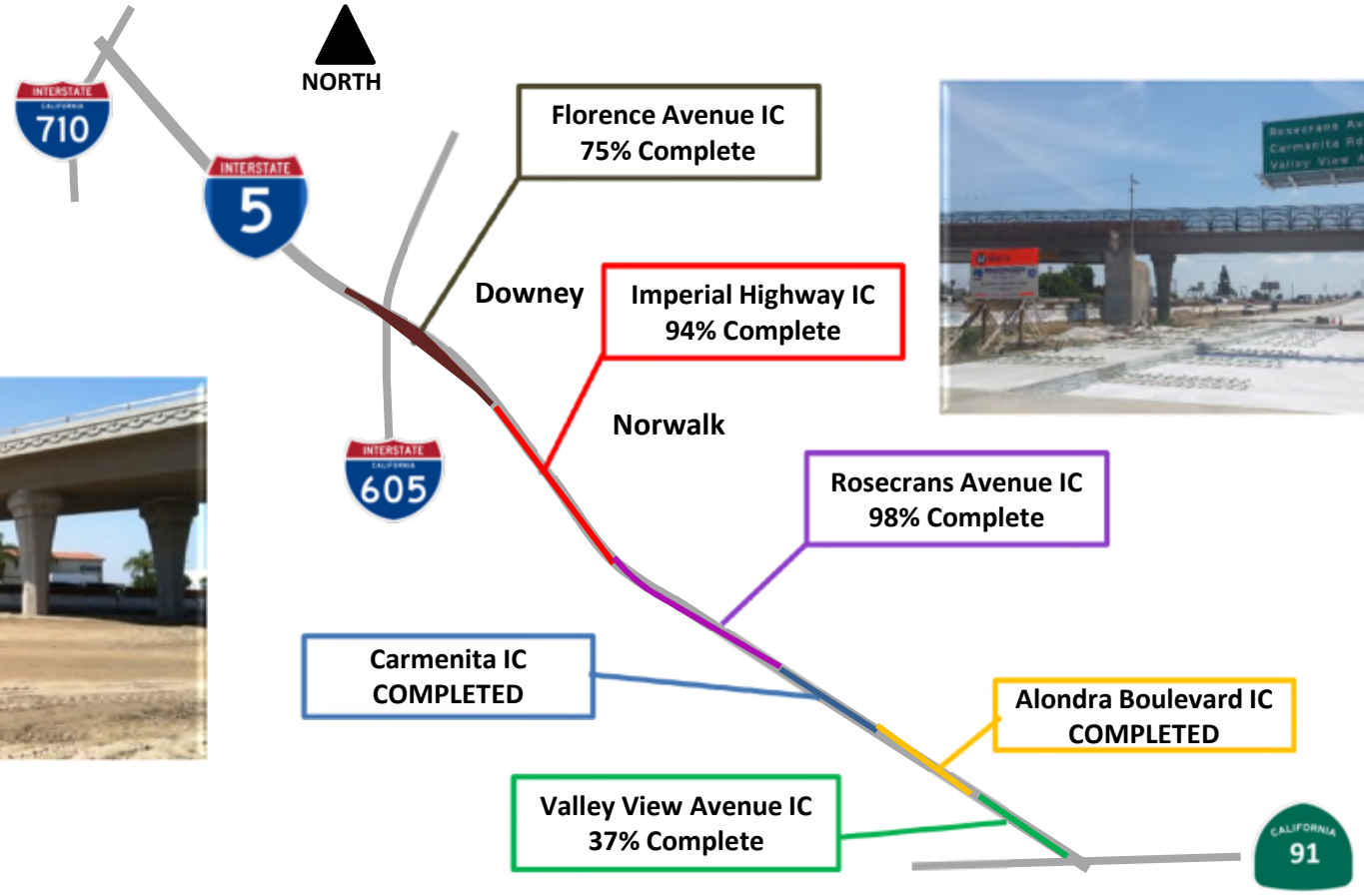
Construction Committee

Los Angeles County Metropolitan Transportation Authority

I-5 SOUTH: ORANGE COUNTY LINE TO I-605

BUDGET	Current	Forecast
TOTAL COST	$1.888B	TBD

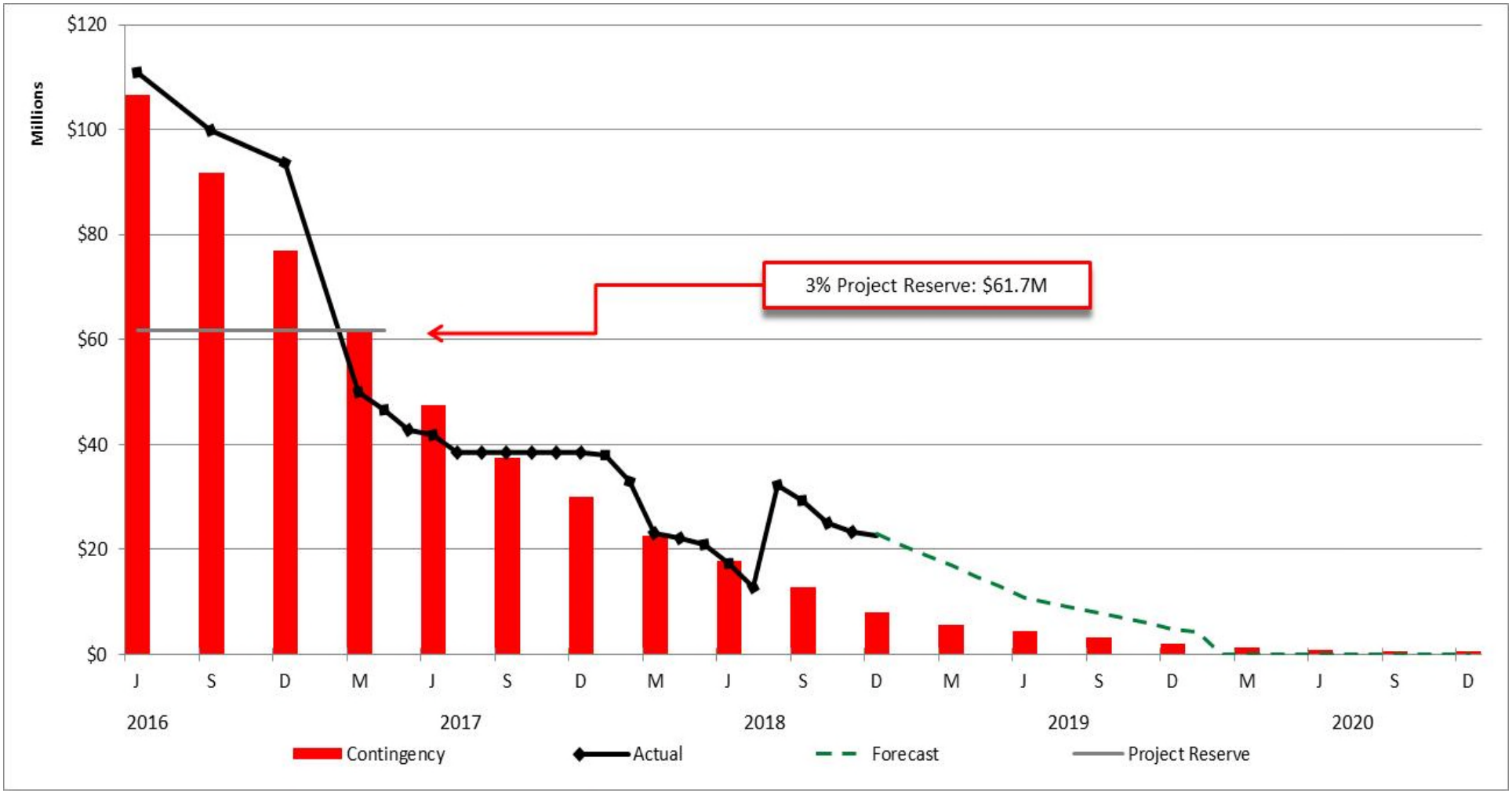
SCHEDULE	Current	Forecast
ANTICIPATED PROJECT COMPLETION	Summer 2022	Fall 2022



Crenshaw/LAX Transit Project

Project Cost Contingency Drawdown

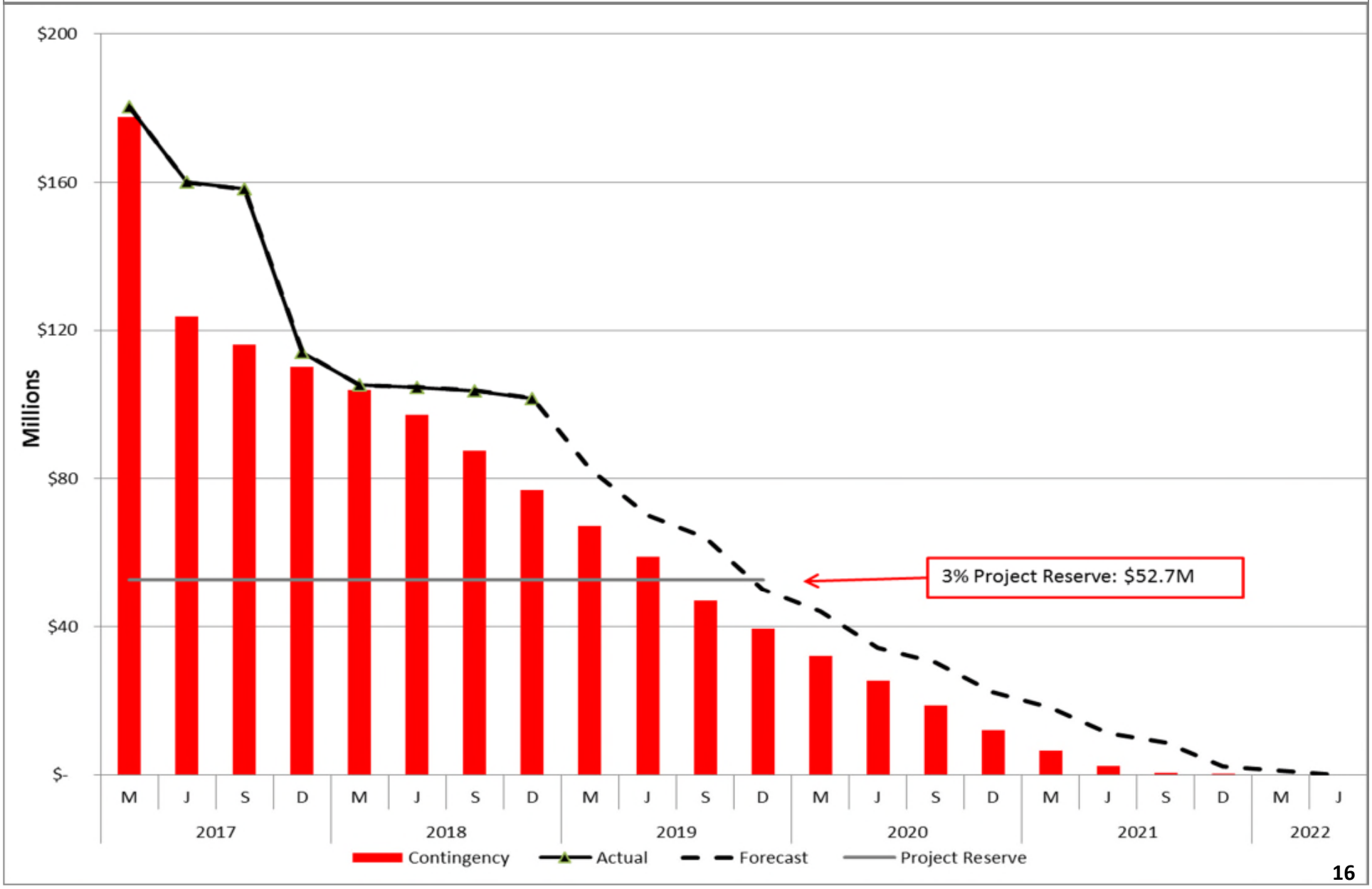
December 2019



Regional Connector

Project Cost Contingency Drawdown

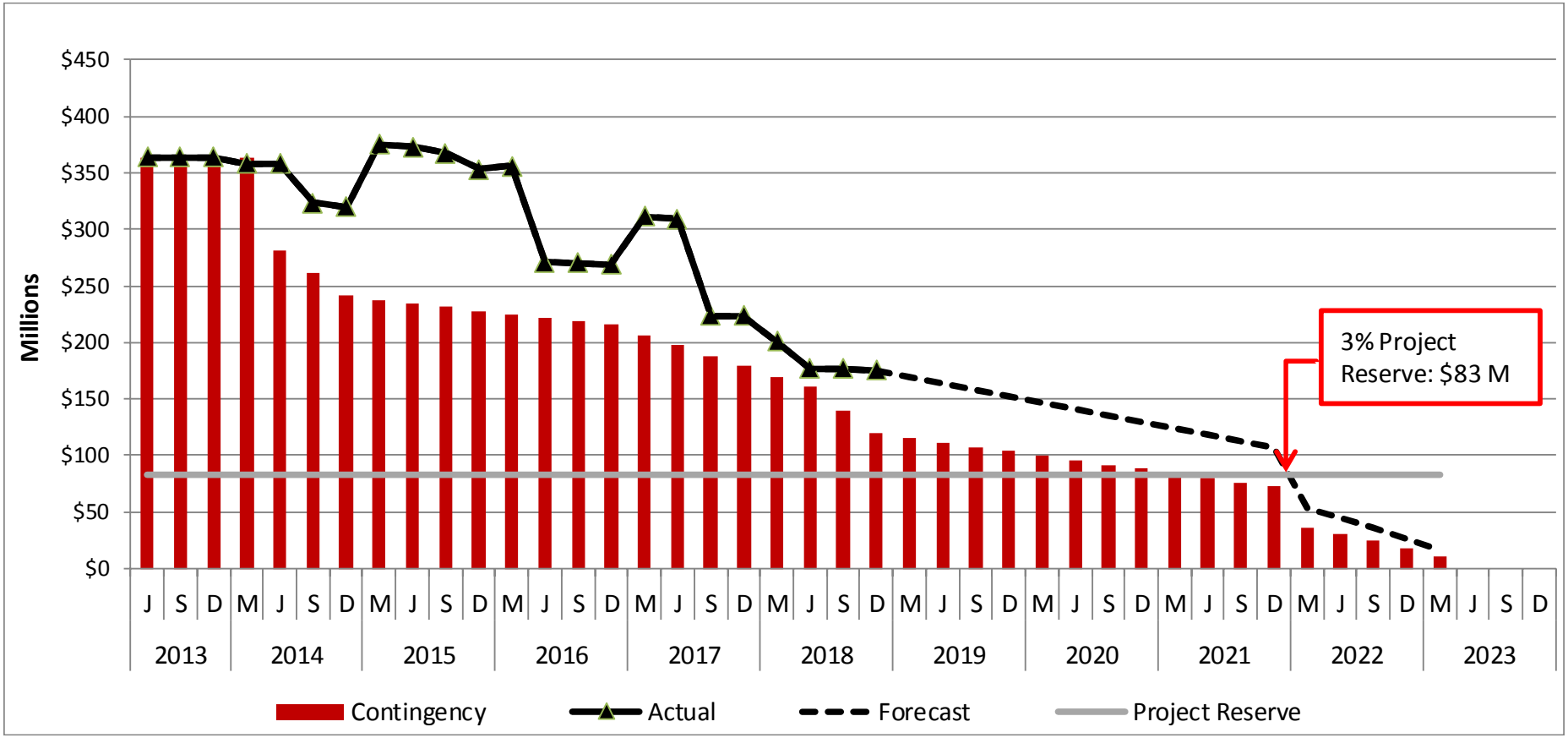
December 2018



Westside Purple Line Extension – Section 1

December 2018

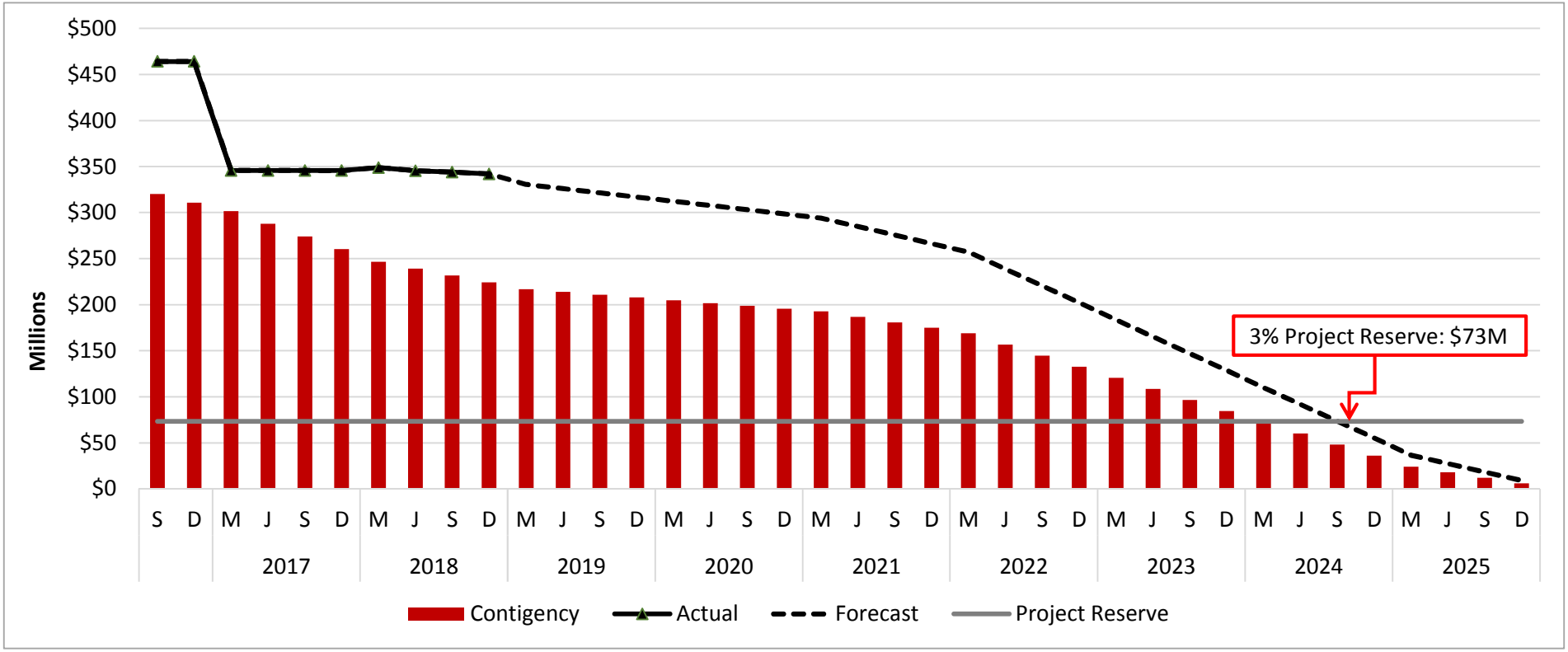
Project Cost Contingency Drawdown



Westside Purple Line Extension – Section 2

December 2018

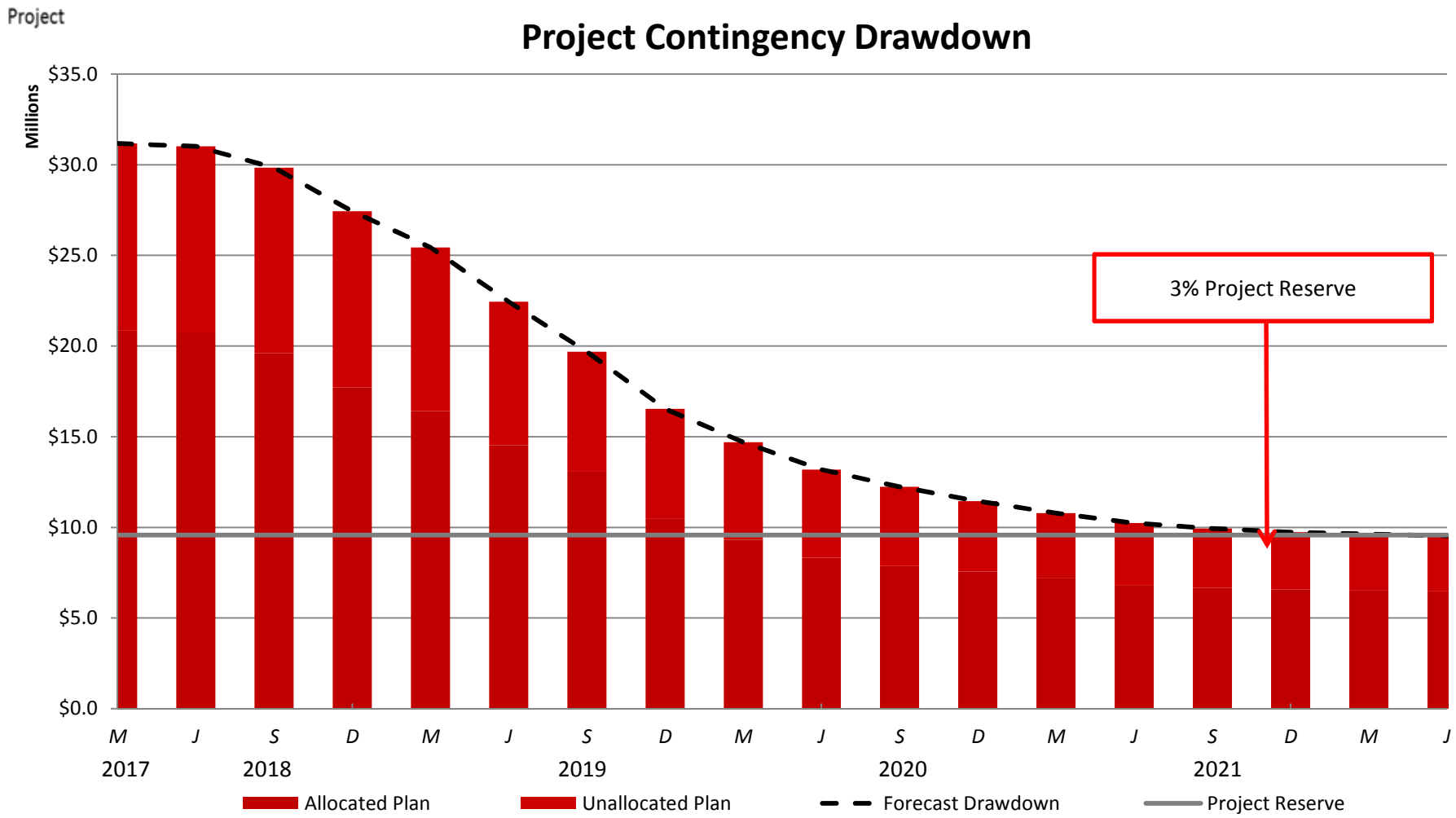
Project Cost Contingency Drawdown



The New Blue

December 2018

Project Cost Contingency Drawdown



- **Blue Line Signal Rehabilitation**
- **Blue Line Track and System Refurbishment**
- **Willowbrook/Rose Park Station**