



## Board Report

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**File #:** 2019-0127, **File Type:** Oral Report / Presentation

**Agenda Number:** 26.

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**CONSTRUCTION COMMITTEE  
APRIL 18, 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**

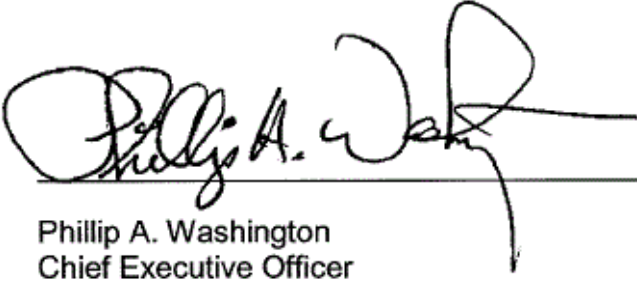
Update report covering the month of April 2019 by the Chief Program Management Officer.

**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



Phillip A. Washington  
Chief Executive Officer

# Program Management Major Project Status Report

Presented By

**Richard Clarke**

Chief Program Management Officer

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April 2019

**Construction Committee**

Los Angeles County Metropolitan Transportation Authority



# PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			Project is 91% complete. Metro issued non-compensable time extension to contractor extending Contract Substantial Completion Milestone to December 2019. The forecast revenue service date is Spring/Summer 2020.
Regional Connector			Project is 56% complete. Substantial Completion and Revenue Service are targeted for 2022. Cost forecast is consistent with LOP Budget at \$1.81 billion.
Westside Purple Line Extension-Section 1			Project is 46% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 2			Project is 15% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3			C1151 Tunnels Contract - Issued Notice to Proceed (NTP) to Frontier-Kemper/Tutor Perini, a Joint Venture on January 15, 2019. C1152 Stations, Trackwork, Systems, and Testing Contract - Contract award is subject to FTA's approval of a Full Funding Grant Agreement (FFGA).
Patsaouras Plaza			Project is approximately 65% complete. Metro has been delayed since April 2018 due to archaeological and Native American issues. With anticipated construction delay of 11 months, significant impacts to project schedule and budget expected. Project expected to resume construction by mid-April 2019.
Willowbrook/Rosa Parks Station			Package A is 25% complete with structural and framing work continuing on the Customer Service and Mobility Hub Buildings. Blue Line Station and Mezzanine work demolition continues with initial pile work beginning. Package B 100% bid package being prepared for procurement.
Metro Blue Line Projects			Metro Blue Line south segment construction work is proceeding per schedule and inclement weather mitigations are in place as necessary as well as extensive community outreach to minimize complaints.
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 73% complete. Segment 4 (Magnolia to SR-134) is 89% complete.
I-5 South: Orange County Line to I-605			Segment 2 (Valley View) is 39% complete. Segment 3 (Rosecrans) is open to traffic. Segment 4 (Imperial) is 95% complete. Segment 5 (Florence) is 78% complete.

April 2019



On target



Possible problem



Major issue



Metro 2

Construction Committee

Los Angeles County Metropolitan Transportation Authority

# CRENSHAW/LAX TRANSIT PROJECT

## BUDGET

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

## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE	Fall	Spring/Summer
OPERATION	2019	2020

- Overall Project Progress is 91% complete; addressing contractor construction schedule.
- Contractor continues critical construction efforts in the north end underground structures.
- Working with 3<sup>rd</sup> parties to complete power drops for traction power substations in support of testing systems equipment .
- Contractor addressing open sidewalk and street punch list items along alignment.



Contractor aligning trackwork at south end Green Line tie-in



Back filling/compaction of Expo/Crenshaw Station Plaza

April 2019



On target



Possible problem



Major issue

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Metro 3

# CRENSHAW/LAX TRANSIT PROJECT – STATUS OF CORRECTIVE WORK

## RESTORATION CLOSURES:

Total Items	22
Open Design Issues	7
Open Construction Issues	19
# Items Complete	3
# Items In Progress	2

## PARK MESA HEIGHTS (PMH) CIVIL CORRECTIONS:

Total Items	426
# Items Complete	42
# Items In Progress	109

## PMH TRAFFIC SIGNAL & STREET LIGHT CORRECTIONS:

Total Items	102
# Items Complete	0
# Items In Progress	0



April 2019

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# REGIONAL CONNECTOR TRANSIT PROJECT

**OK BUDGET**

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

**OK SCHEDULE**

	<u>Current</u>	<u>Forecast</u>
	Spring/Summer	Spring/Summer
	2022	2022
REVENUE		
OPERATION		

- Overall Project Progress is 56% complete.
- Underground:** Sequential Excavation Method (SEM) crossover cavern excavation complete; final liner work has commenced.
- Little Tokyo/Arts District Station, WYE and 1<sup>st</sup> Street:** Excavation and related support of excavation, as well as utility protection continue at WYE and 1<sup>st</sup> Street; structural concrete operations underway on station walls.
- Historic Broadway Station:** Structural concrete continues with exterior walls in station entrance and 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 5<sup>th</sup> continues. Concrete operations between 4<sup>th</sup> and 5<sup>th</sup> Streets are underway.



SEM Cavern excavation completed



Rebar and MEP installation at 1st/Alameda Wye

April 2019



On target



Possible problem



Major issue

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Metro 5

# WESTSIDE PURPLE LINE EXTENSION – SECTION 1

## BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST*	\$3,154M	\$3,154M

\* Includes Board approved LOP budget plus finance costs.

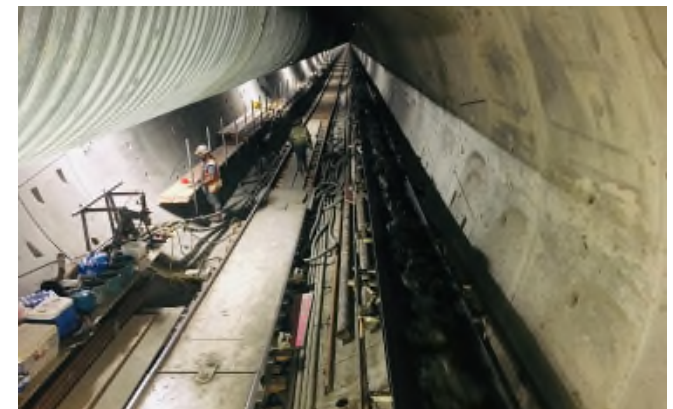
## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE	Fall	Fall
OPERATIONS	2024 (FFGA)	2023

- Overall Project Progress is 46% complete.
- Wilshire/Western Retrieval Shaft:** Preparation for Tunnel Boring Machine (TBM) arrival in June 2019, including framing installation for tunnel eyes, cutting piles and preparation for gantry crane installation.
- Wilshire/La Brea Station:** Concrete placement for interior load bearing walls is complete. Rebar installation for the concourse slab has commenced with the first placement of concrete scheduled in April 2019.
- Wilshire/Fairfax Station:** Station box excavation and mud mat concrete placement are complete. Invert slab concrete placement is scheduled in April 2019.
- Wilshire/La Cienega Station:** Installation of Level C struts continues, along with excavation toward Level D. Bottom of excavation is anticipated to be reached in June 2019.
- Reach 1 TBM Progress (W/LB to W/W):** TBM #1 – 5,472 ft. or 57%; TBM #2 – 3,918 ft. or 41% as of March 13, 2019.



Placement of Mud Mat at Wilshire/Fairfax Station



Reach 1 Tunneling

April 2019



On target



Possible problem



Major issue

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Metro 6



# WESTSIDE PURPLE LINE EXTENSION – SECTION 2



## BUDGET

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

\* Includes Board approved LOP budget plus finance costs.



## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE OPERATION	Winter 2026 (FFGA)	Summer 2025

- Overall Project progress is 15% complete.
- Final design progress is 91% complete.
- **Century City Constellation**
  - Cable pulling and splicing for LADWP Power and AT&T is ongoing with an anticipated completion date of November 2019.
  - Tunnel muck bin construction and tunnel boring machine (TBM) launch box excavation have commenced.
  - Santa Monica bus layover construction is ongoing with an anticipated completion in April/May 2019.
  - The AT&T parking structure demolition is complete and turnover of the property to the contractor occurred in March 2019.
- **Wilshire/Rodeo**
  - Preparation for wet utility relocations by the contractor is ongoing.
  - Demolition of north staging yard properties completed in March 2019.
  - Memorandum of Agreement approved by the City of Beverly Hills on February 19, 2019.



Muck Bin Pile Installation



Demo of North Stage Yard Properties

April 2019



On target



Possible problem



Major issue

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Metro 7

# WESTSIDE PURPLE LINE EXTENSION – SECTION 3



## BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST*	\$3,611M	\$3,611M

\* Includes Board approved LOP budget plus finance costs.



## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE	TBD	2027
OPERATION		

- C1151 Tunnel Contract – Started design coordination with various stakeholders.
- C1152 Stations, Trackwork, Systems, and Testing Contract – Contract award is subject to FTA’s approval of a Full Funding Grant Agreement (FFGA).
- C1153 Advanced Utility Relocations (AUR) Contract – Overall progress is 76% complete.
- Joint trench for combining Verizon and Frontier telecommunications started in February 2019 and is ongoing.
- LADWP Cable pulling started in early March 2019 and is ongoing.



LADWP Water Pipe, Valve and T-Section Installation



LADWP Cable Pulling

April 2019



On target



Possible problem



Major issue


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Metro 8

# PATSAOURAS PLAZA BUSWAY STATION

 BUDGET		
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$39.7M	\$TBD

 SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	Winter 2018	Spring 2020

- Overall project progress remains at approximately 65% complete.
- Project contractor and construction suspension continues since April 24, 2018 due to archaeological and Native American resource issues.
  - Project team is working diligently to resume construction with FTA and the Consulting Parties in April 2019.
- Archaeological investigation and treatment field work began on November 12, 2018, and expected to be completed by end of March 2019.
  - To date 36 archaeological features including human remains discovered
  - Most recent discovery in early March determined to be segment of Zanja.
- 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 May 2019.

April 2019



On target



Possible problem



Major issue

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Metro 9

# WILLOWBROOK/ROSA PARKS STATION

## BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$109.3M	\$109.3M

## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	Summer 2020	Summer 2020

- Package A: Structural components and framing for Customer Service has been completed with interior utility work commencing. Mobility Hub Building structural work in progress.
- Package C: Demolition on Blue Line Platform and Mezzanine in progress. Initial column/pile work commencing.
- Package B: Preparing Documents for construction procurement.



Demolition of Rail Platform



Demolition of Rail Platform and Mezzanine



Structural Steel Installation for Mobility Hub



Framing for Customer Service Building

April 2019



On target



Possible problem



Major issue

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Metro 10



# THE NEW BLUE CLOSURE

 BUDGET		
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$221.3M	\$221.3M

 SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	Fall 2019	Fall 2019

- Rail replacement and rebooting work is 50% completed.
- Overhead Catenary System (OCS) work is 50% complete.
- Compton new interlocking Local Field Acceptance Tests (LFAT) has started.
- Painting of the OCS and Light poles has started.
- Implementing inclement weather mitigations.



Switch Machine LFAT



New OCS Wires



Compton Train Control Bungalow

April 2019



On target



Possible problem



Major issue

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Metro 11



# I-210 BARRIER REPLACEMENT PROJECT

BUDGET		
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$11.08M	\$22.62M
	Design	Design

SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
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. This traffic analysis is scheduled to be completed by mid-April 2019.
- Coordinating mitigation measures with Caltrans to address existing non-standard freeway features and other non-standard features caused by this project. Draft document to be submitted to Caltrans for Project 1 beginning of April 2019.
- Project 1: Segment from Michillinda to Iconic Bridge – Surveying to be completed end of March. Continuing environmental studies and final design concurrently.
- Project 2: Segment from west end of the project to Michillinda – Continuing traffic micro-simulation studies.



Newly Installed Caltrans Freeway Sign



Incident in 2014



Newly Installed Speed Limit Sign

April 2019



On target



Possible problem



Major issue

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Metro 12

# I-5 Construction Projects (By Caltrans)



April 2019

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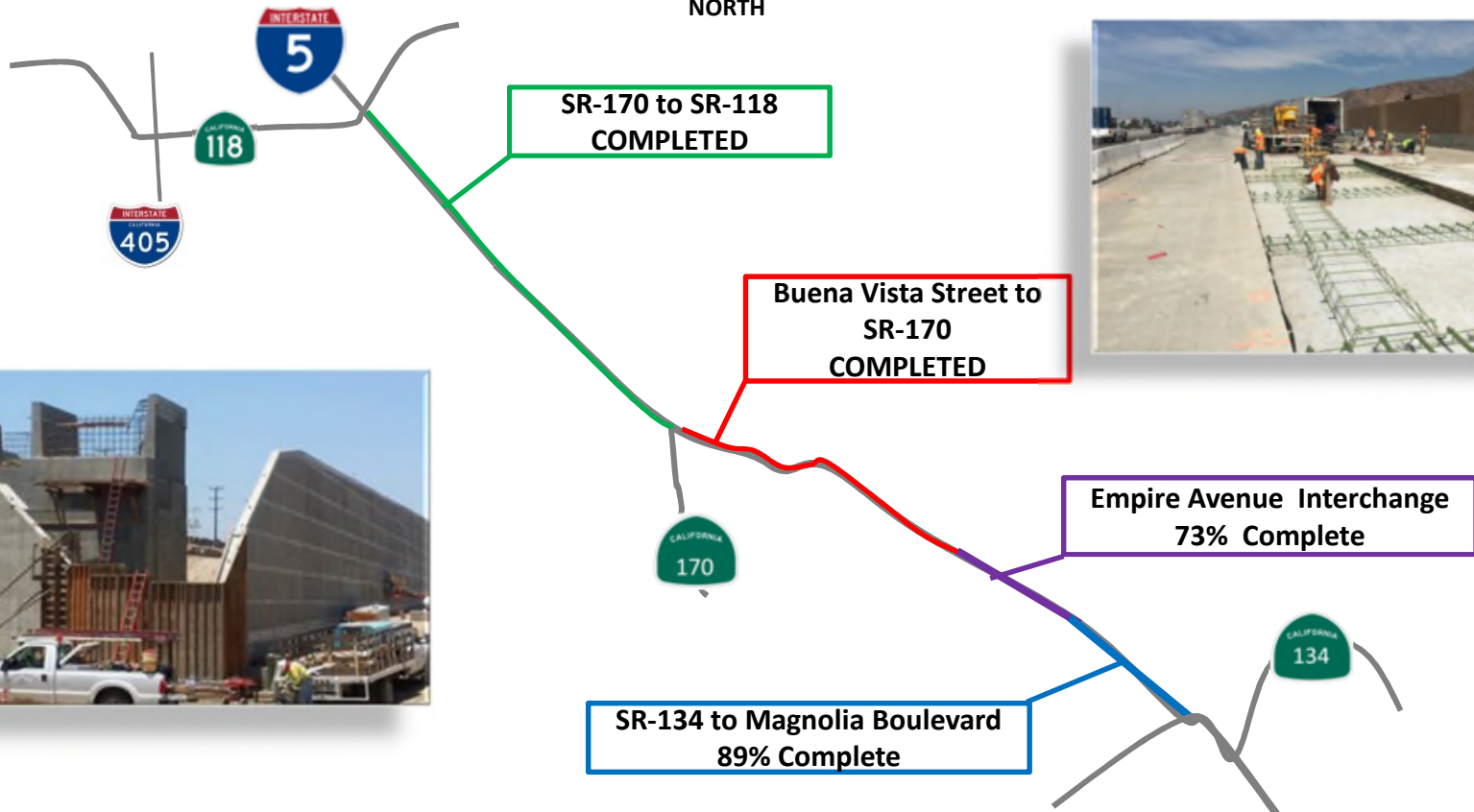
Metro 13

# I-5 NORTH: SR 118 TO SR 134



⚠ BUDGET		
TOTAL COST	Current	Forecast
	\$880.9M	TBD

🟡 SCHEDULE		
ANTICIPATED PROJECT COMPLETION	Current	Forecast
	Spring 2022	Summer 2022



April 2019



On target



Possible problem



Major issue

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Los Angeles County Metropolitan Transportation Authority



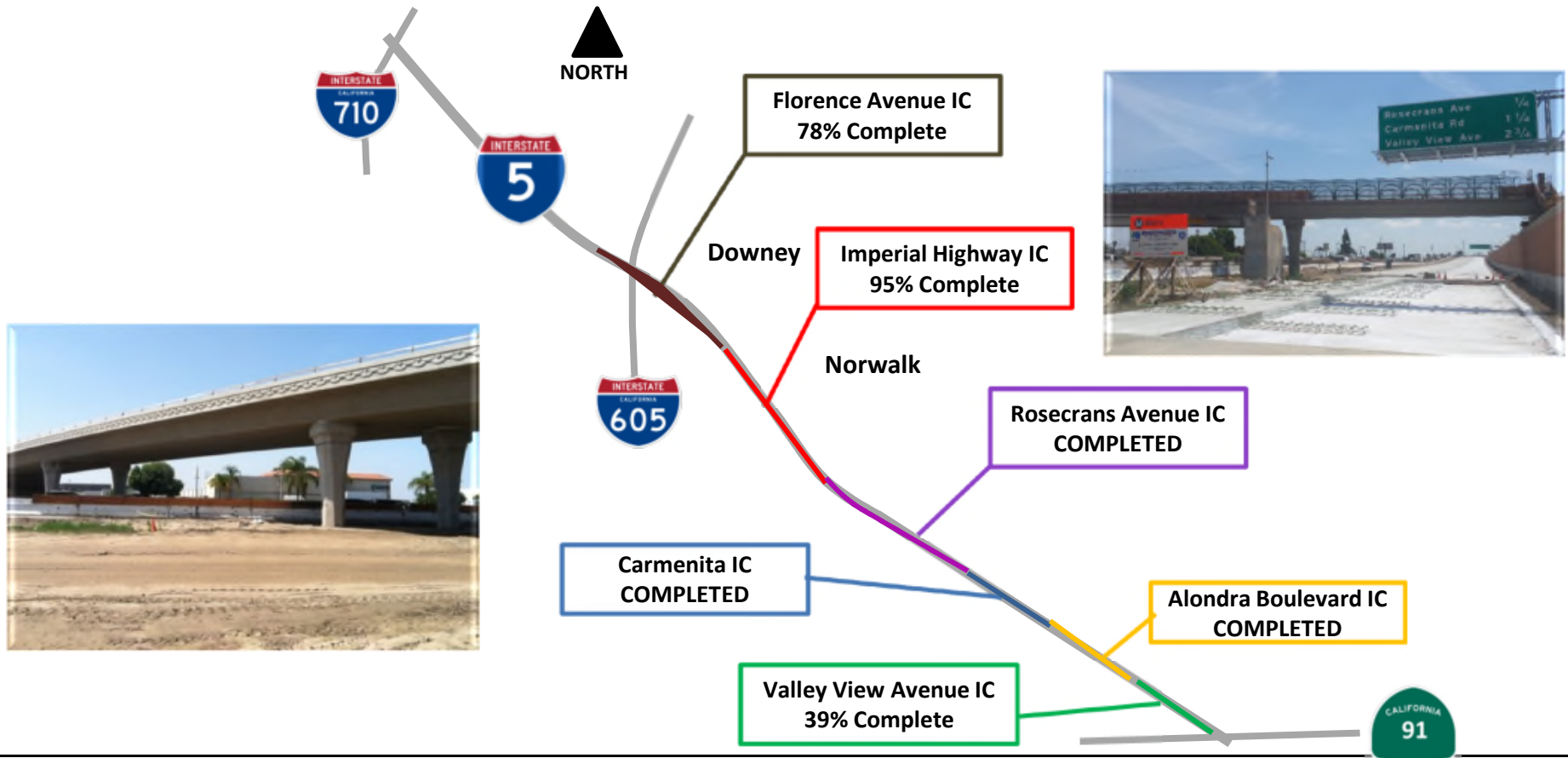
Metro 14

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



OK BUDGET		
	Current	Forecast
TOTAL COST	\$1.888B	TBD

◇ SCHEDULE		
	Current	Forecast
ANTICIPATED PROJECT COMPLETION	Summer 2022	Fall 2022



April 2019

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On target



Possible problem



Major issue

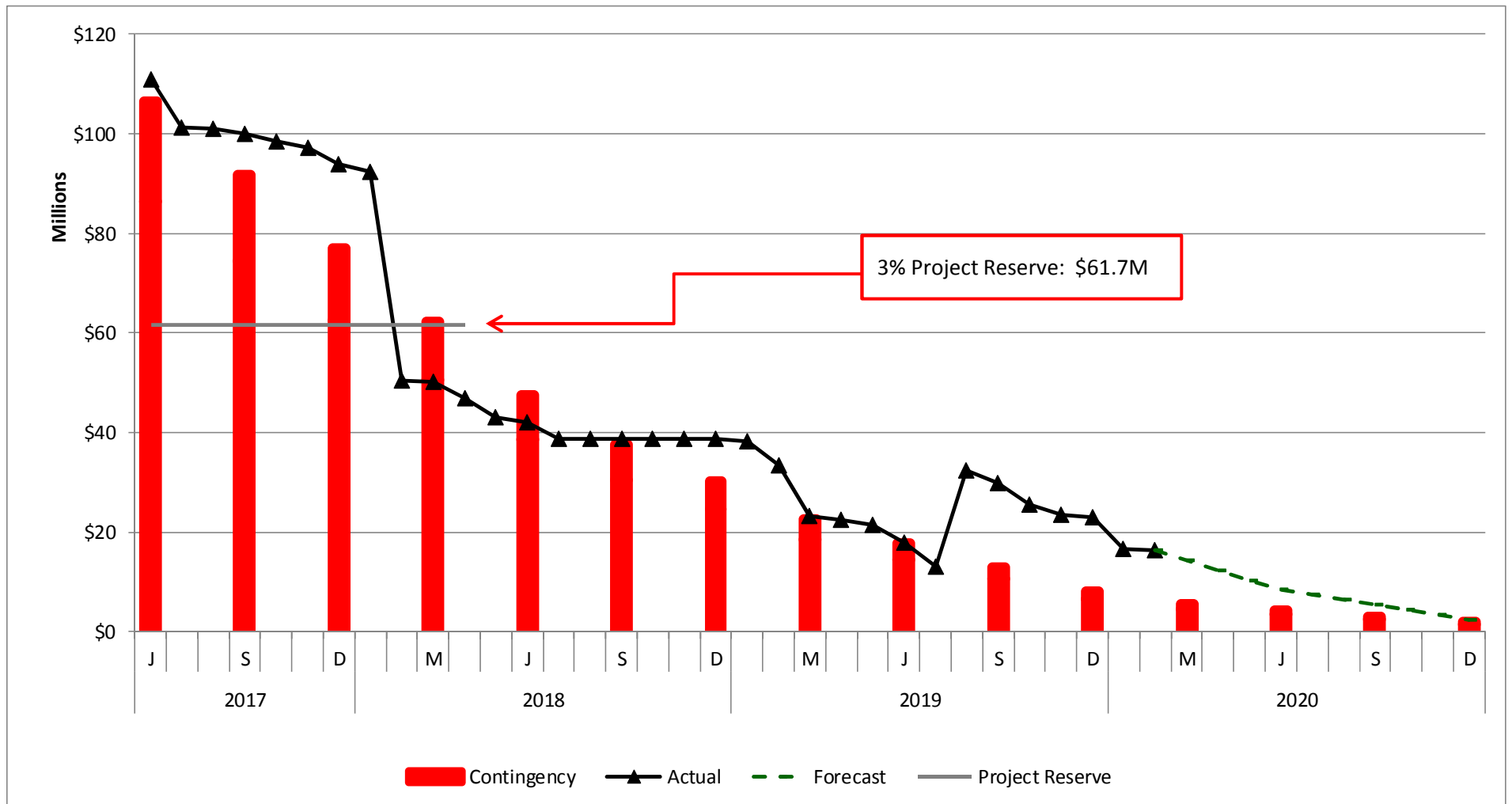


Metro 15

# Crenshaw/LAX Transit Project

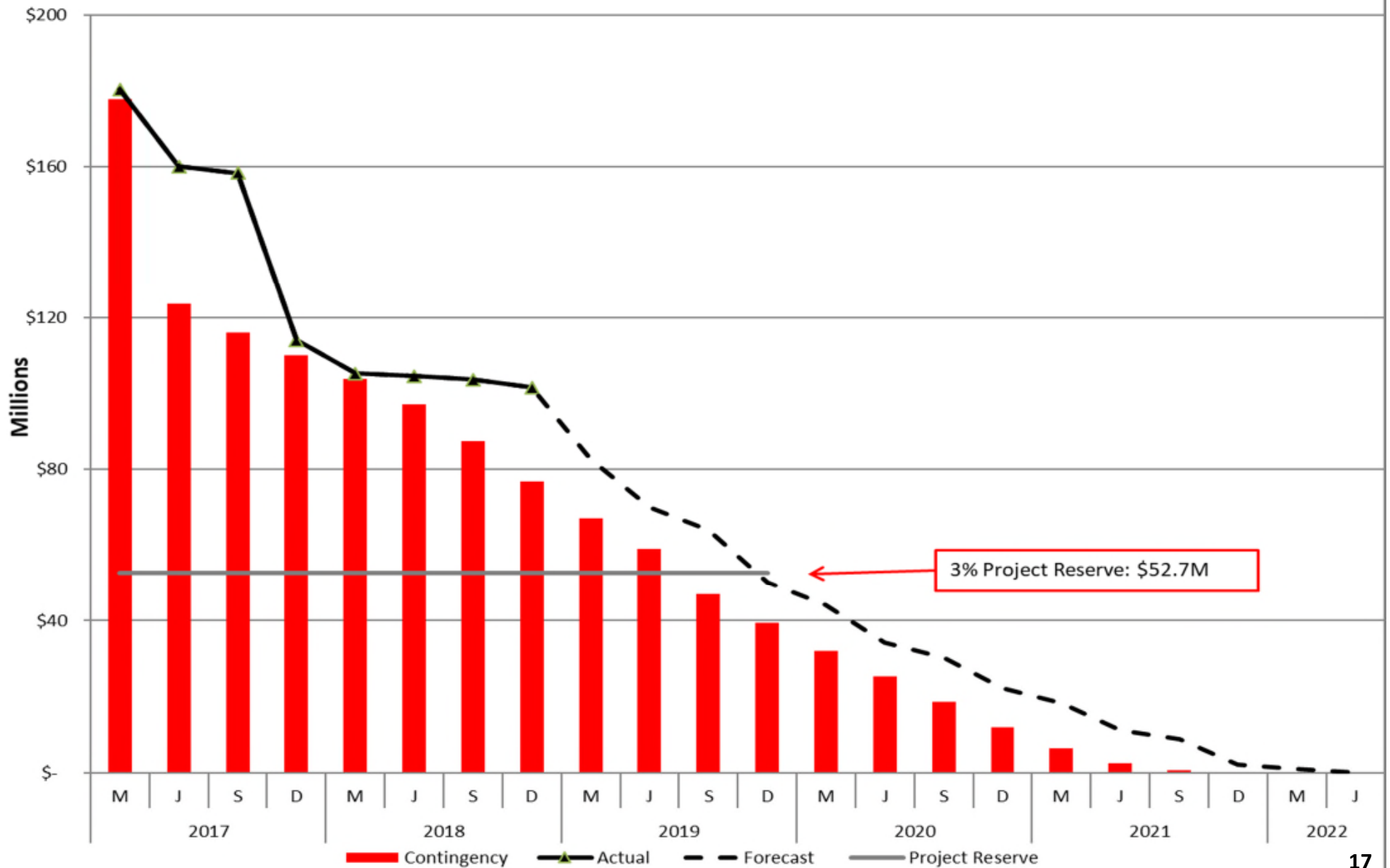
## Project Cost Contingency Drawdown

February 2019





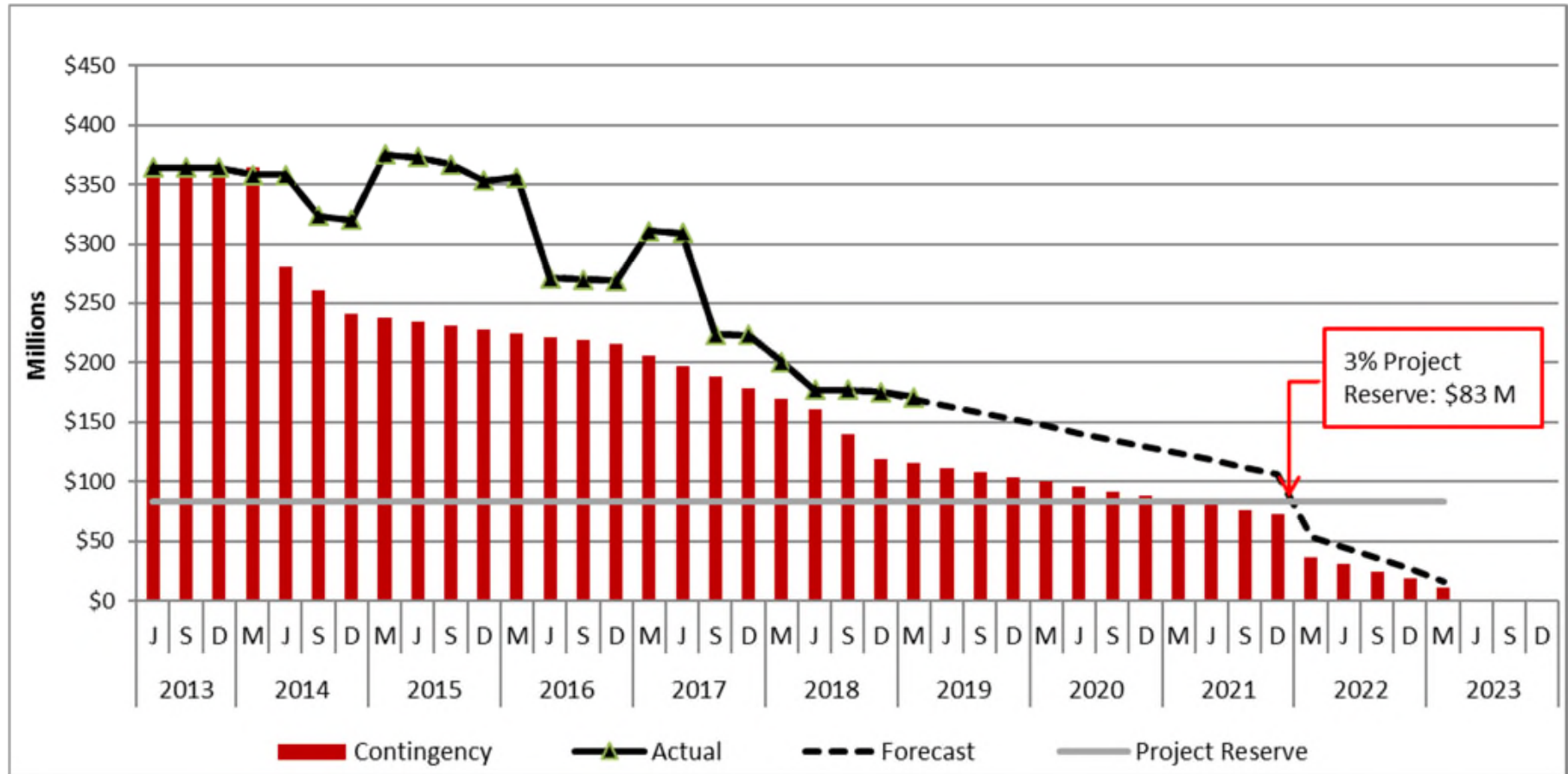
# Regional Connector Project Cost Contingency Drawdown



# Westside Purple Line Extension – Section 1

## Project Cost Contingency Drawdown

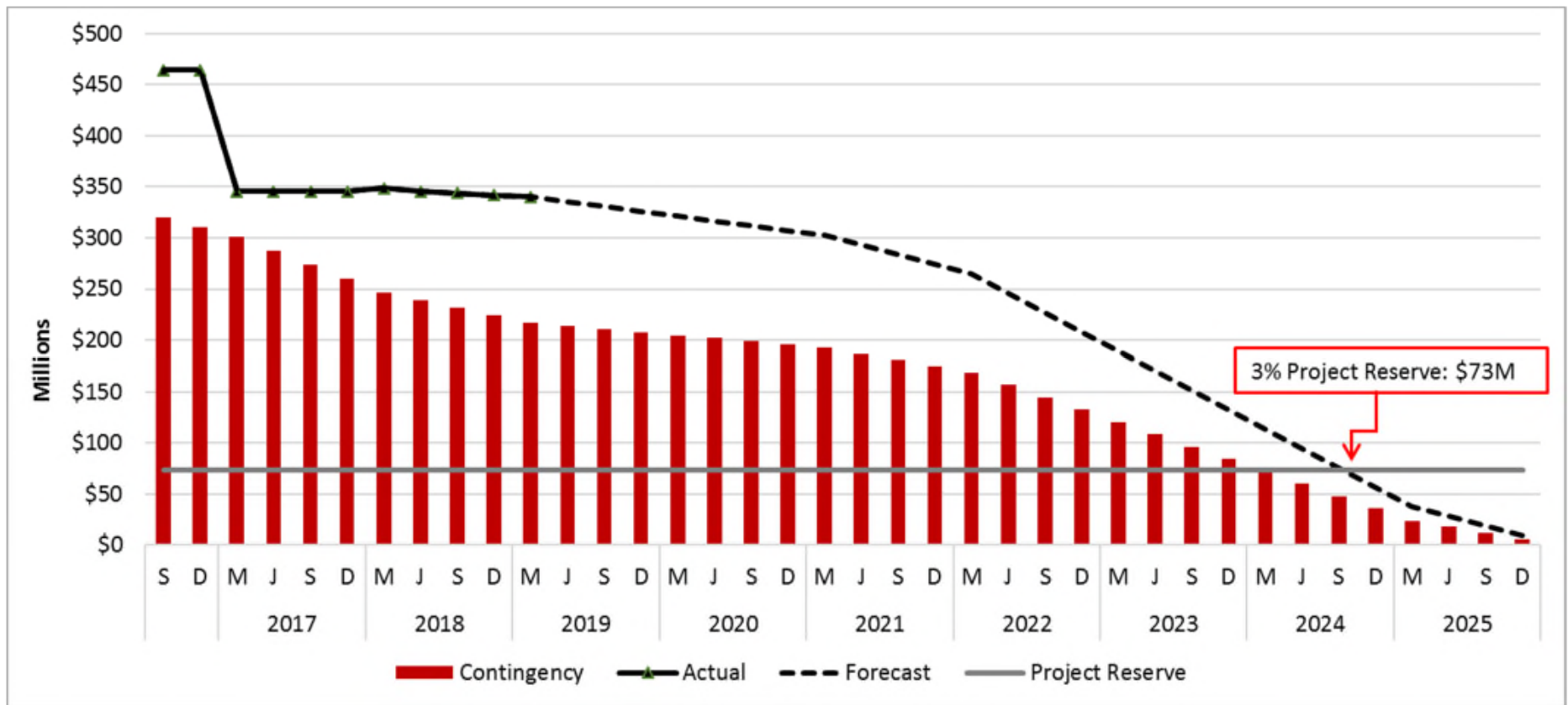
February 2019



# Westside Purple Line Extension – Section 2

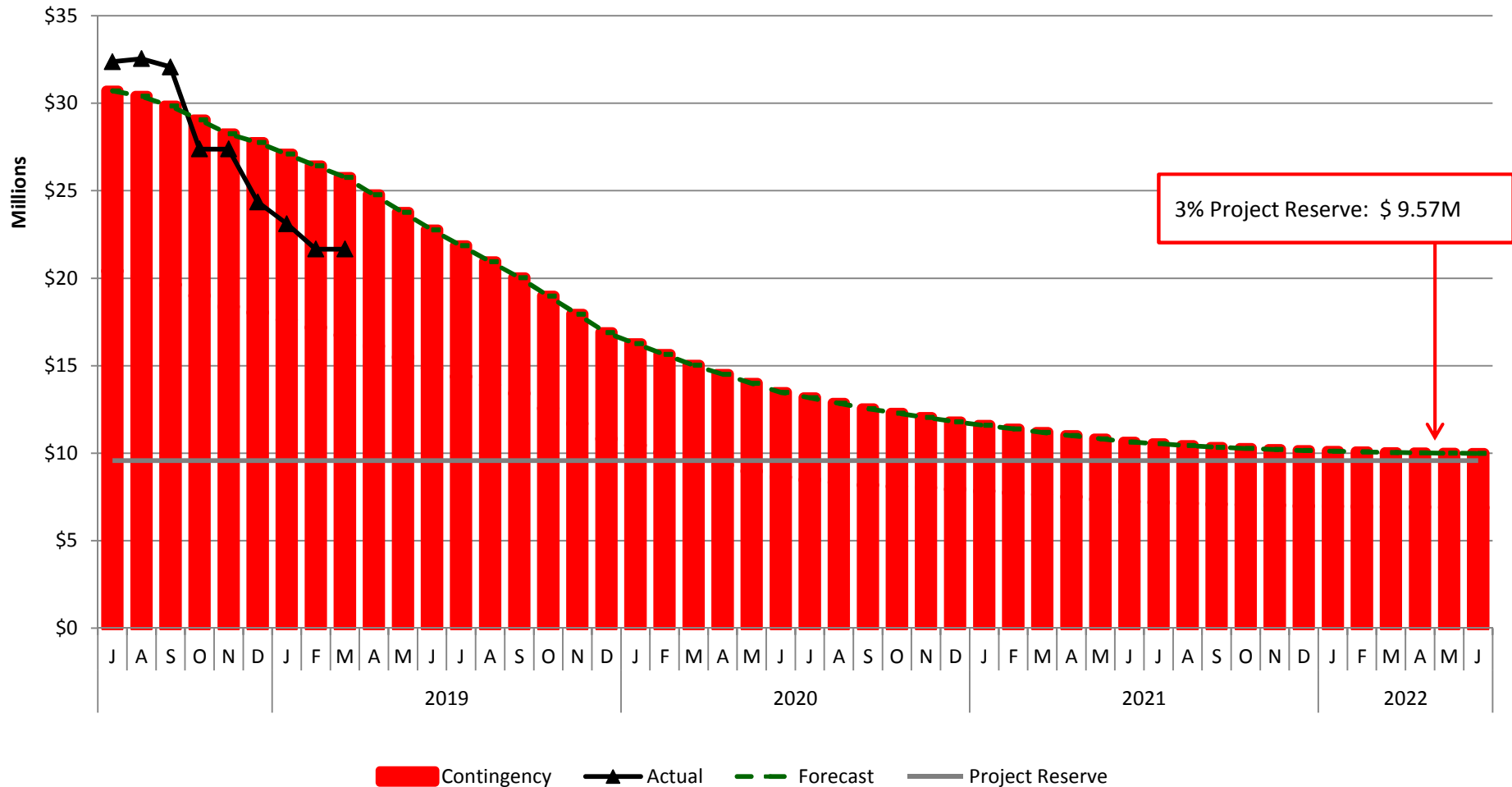
## Project Cost Contingency Drawdown

February 2019



# New Blue Projects

## Project Cost Contingency Drawdown



- Blue Line Signal Rehabilitation
- Blue Line Track and System Refurbishment
- Willowbrook/Rosa Parks Station