



Metro

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

Board Report

File #: 2019-0878, **File Type:** Oral Report / Presentation

Agenda Number: 28.

CONSTRUCTION COMMITTEE JANUARY 16, 2020

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

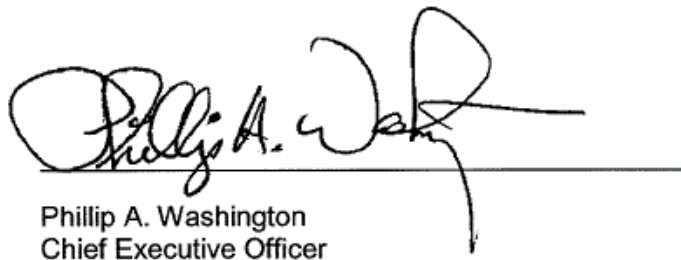
Update report covering the month of January 2020 by the Chief Program Management Officer.

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** - Yohana Jonathan, Princ. Prog. Mgmt. Analyst, (213) 418-3031



Phillip A. Washington
Chief Executive Officer

Program Management Major Project Status Report

Presented By

Richard Clarke

Chief Program Management Officer

January 2020

Construction Committee

Los Angeles County Metropolitan Transportation Authority



PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			Project is 93% complete. Contractor needs to recover schedule. The forecast revenue service date is Summer/Fall 2020.
Regional Connector			Project is 61% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 1			Project is 55% complete and proceeding on schedule. Differing site conditions and third party requirements are impacting the project budget.
Westside Purple Line Extension-Section 2			Project is 25% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3			Project is 6% complete and proceeding on schedule and within budget.
Patsaouras Plaza			Project is 80% complete. Archaeological and Native American monitoring not required due to lack of earthwork at the present. Concrete has been poured for the pedestrian walkway and overcrossing, and rebar has been completed for station and elevator platform. Pedestrian walkway overhead steel is in progress.
Willowbrook/Rosa Parks Station			Blue Line Platform and Mezzanine opened for public service. Finish Systems and Vertical Circulation work ongoing. Customer Center, Bike Hub and Public Plaza nearing substantial completion. Package B 100% bid package has begun procurement process.
I-210 Barrier Replacement			Design team looking to see if 8 minute headways are possible while single tracking occurs on Gold Line (for Projects 1 and 2). Expecting to submit Project 1 Project Report for approval by the end of the year and submit Project 1 100% Design Package for approval in January 2020.
I-5 North: SR 118 to SR 134			Segment 1 and 2 are completed. Segment 3 (Empire Ave & Burbank) is 76% complete. Segment 4 (Magnolia to SR-134) is 94% complete.
I-5 South: Orange County Line to I-605			Segments 1 and 3 and the Carmenita Interchange are completed. Segment 2 (Valley View) is 53% complete. Segment 4 (Imperial) is 96% complete. Segment 5 (Florence) is 85% complete.

January 2020

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Los Angeles County Metropolitan Transportation Authority



On target



Possible problem



Major issue



Metro²

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	Summer/Fall	Summer/Fall
OPERATION	2020	2020

- Overall Project Progress is 93% complete; contractor needs to recover schedule.
- Focus has been on rework including repairing blocked and damaged conduits in tunnel/underground stations and repairing trackwork throughout alignment.
- Contractor continues remaining facility and systems installation and testing efforts. Integrated testing being performed up to Hindry Ave.
- Critical path is completion of the traction power substations, conduit and system installation and testing, and system integration testing.



Setting forms for the platform topping slab at Aviation/Century Station



Auxiliary power high voltage cable tray in Martin Luther King Jr. Station

January 2020



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 3

REGIONAL CONNECTOR TRANSIT PROJECT

BUDGET

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

SCHEDULE

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

- Overall Project Progress is 61% complete.
- Little Tokyo/Arts District Station, WYE and 1st Street:** Street Restoration work will begin in January 2020, as coordinated with the Little Tokyo Community.
- Historic Broadway Station:** Structural concrete continues within the Station, Entrance and Sequential Excavation Method (SEM) Cavern.
- Grand Av Arts/Bunker Hill Station:** Structural concrete walls and slabs continue to be erected at multiple levels throughout the station.
- Flower Street:** Continue installation of exterior and interior walls; preparations for roof placements underway.



Floating Slab Track installation



Setting wall forms at Grand Av Arts/Bunker Hill Station

January 2020



On target



Possible problem



Major issue

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Los Angeles County Metropolitan Transportation Authority



Metro 4

WESTSIDE PURPLE LINE EXTENSION – SECTION 1

BUDGET

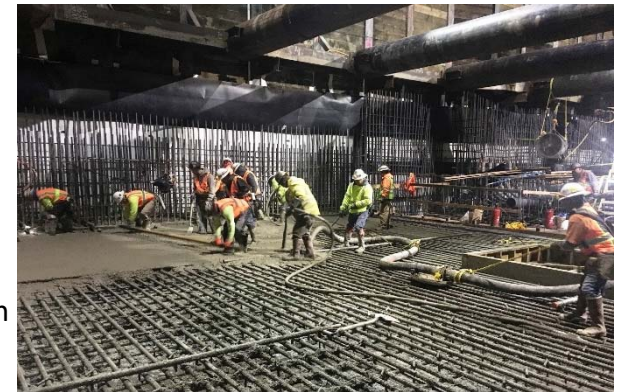
	<u>Current</u>	<u>Forecast</u>
TOTAL COST*	\$3,154M	\$3,154M

* 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 55% complete.
- Wilshire/Western Retrieval Shaft:** Reconfigured yard and shaft to accommodate the mining of Reach 1 cross passage construction.
- Wilshire/La Brea Station:** Continued roof placement shoring/forming at the concourse level; Continued infill slab preparation work at east hammerhead; Continued prep work for 2nd lift exterior wall construction.
- Wilshire/Fairfax Station:** Concrete placement for 1st lift exterior walls was completed on November 26, 2019; Continued tunnel eye and cradle installation at hammerheads; Continued entrance/appendage work.
- Wilshire/La Cienega Station:** Station invert concrete placement commenced on December 5, 2019. Protection slab placement, rebar and Mechanical, Electrical, and Plumbing (MEP) for the invert slab move forward.
- Tunneling:** Reach 2 Tunneling as of December 5, 2019 -
 - Purple TBM (Elsie): 1,618 feet mined (37% complete)
 - Red TBM (Soyeon): 358 feet mined (8% complete)
- Cross Passages (CP):**Excavation scheduled to begin on December 16 2019.
- Differing site conditions and third party requirements are impacting the project budget.



Wilshire/La Cienega Station Invert Concrete Placement



Excavation Preparation at Cross Passage 13

December 2019



On target



Possible problem



Major issue

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WESTSIDE PURPLE LINE EXTENSION – SECTION 2



BUDGET

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

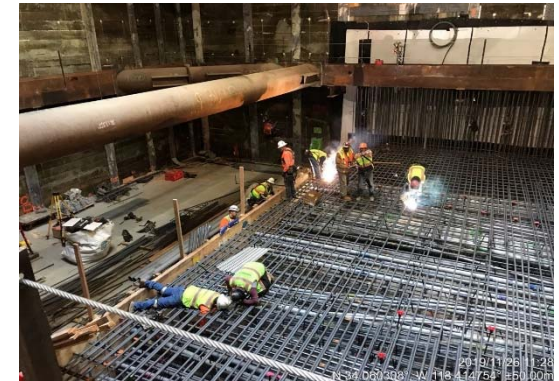
* Includes Board approved LOP budget plus finance costs.



SCHEDULE

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

- Overall Project progress is 25% complete.
- Final design progress is 96% complete.
- **Century City Constellation**
 - Tunnel Boring Machine (TBM) launch box excavation is complete. Construction of the base slab is ongoing.
 - TBM assembly is scheduled for the first quarter of 2020.
 - Tunnel access shaft excavation is at a depth of 61 feet (approximately 65% complete). Geophysical testing is underway within the partially excavated shaft to confirm if there are any subsurface obstructions on the alignment near the shaft.
 - A request for a seven month extension of the full street closure of Constellation Blvd (in the vicinity of the Launch Box) was presented to the Board of Public Works in December 2019.
 - Cable pulling and splicing for LADWP is anticipated to complete prior to the start of piling activities west of the TBM Launch Box.
- **Wilshire/Rodeo**
 - Piling for the station excavation began on October 22, 2019.
 - Remobilization after the Holiday Moratorium started in January 2020.



Rebar Installation at TBM Launch Box in Century City



Wilshire/Rodeo Station Box Pile Installation

January 2020



On target



Possible problem



Major issue

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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		

- Overall Project progress is 6% complete
- Final design progress is 30% complete
- **C1151 Tunnel Contract**
 - SCE ductbank construction within LA County was temporarily placed on hold and will resume upon resolution of design issues.
 - Limited Access Agreement executed for tree relocation/removal work. Access & Easement Agreement (AEA) negotiation continue.
 - Surface and subsurface easement acquisitions continue.
- **C1152 Stations, Trackwork and Systems Contract**
 - Station easement acquisitions continue.
 - Geotechnical drilling and utility pot-holing started at the VA Hospital site in December 2019.
- **Other Third Party Utility Relocation Work**
 - Joint trench activities for combining Verizon and Frontier telecommunications are ongoing.
 - Southern California Gas as well as Sempra Energy line relocations at Westwood/UCLA Station are ongoing.



SCE Ductbank Trench Shoring



MH 500 Installation Line D

January 2020



On target



Possible problem



Major issue

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PATSAOURAS BUS PLAZA STATION



BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$50.9M	\$50.9M



SCHEDULE

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

- Overall project progress at approximately 80% complete.
- Archaeological and Native American monitoring will continue with the construction of the drainage system at the retaining wall.
- Pedestrian ramp and overcrossing concrete pour completed.
- Elevator platform and walkway rebar installation in progress.
- Canopy columns set for bus platform concrete pour.

Bus Platform

Pedestrian Walkway & Overcrossing

Elevator



January 2020



On target



Possible problem



Major issue



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WILLOWBROOK/ROSA PARKS STATION

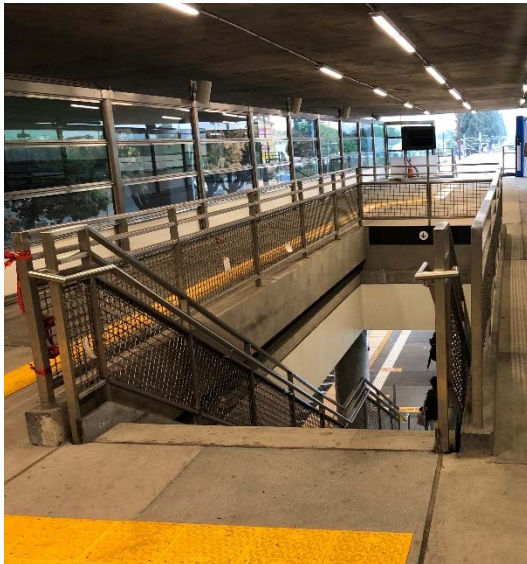
BUDGET

	<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: Customer Center, Mobility Hub buildings and Public Plaza nearing substantial completion. Punch walk to be conducted week of December 9th and 16th. Furniture and Equipment to begin installation the week of December 9th.
- Package C: Blue Line platform and mezzanine opened to the public in conjunction with A Line re-opening. Finish, Systems (VMS, TAP) and Vertical Circulation work ongoing. Southern pedestrian crossing in coordination with UPRR.
- Package B: Bid documents submitted for procurement.



Blue Line Mezzanine open to the public



Rosa Parks Customer Center



Mobility Hub, Customer Service Building and Plaza near completion

January 2020



On target



Possible problem



Major issue



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I-210 BARRIER REPLACEMENT PROJECT



BUDGET

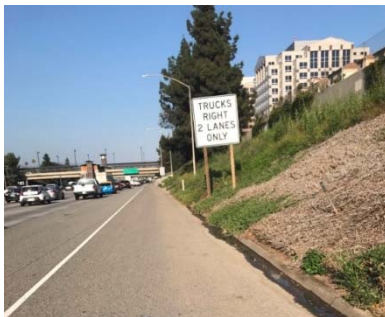
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$22.54M	\$22.54M
	Design	Design



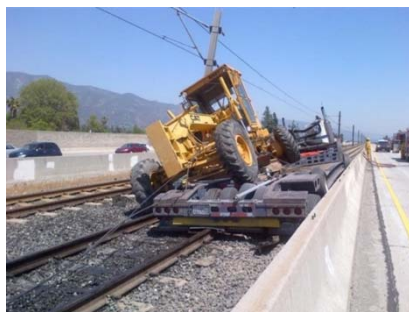
SCHEDULE

	<u>Current</u>	<u>Forecast</u>
Complete Design (Proj 1)	Jan 2020	Winter 2020
Complete Design (Proj 2)	Feb 2021	Winter 2021

- Project 1: Segment from Michillinda to Iconic Bridge – Project Report and 95% Design Package were submitted in September. Caltrans has provided comments and they are being addressed in the 100% Design Package. The 100% Design Package will be submitted in January.
- Project 2: Segment from west end of the project to Michillinda – Development of alternative barrier system to avoid freeway lane closure for Project 2 is underway.
- Projects 1 & 2: Design Team investigating single track headways and operational impact while single tracking occurs on Gold Line. May require additional crossovers.



Newly Installed Caltrans Freeway Sign



Incident in 2014



Newly Installed Speed Limit Sign

January 2020



On target



Possible problem



Major issue

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Metro 10

I-5 Construction Projects (By Caltrans)



January 2020

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Metro 11

I-5 NORTH: SR 118 TO SR 134



! BUDGET

TOTAL COST

Current
\$880.9M

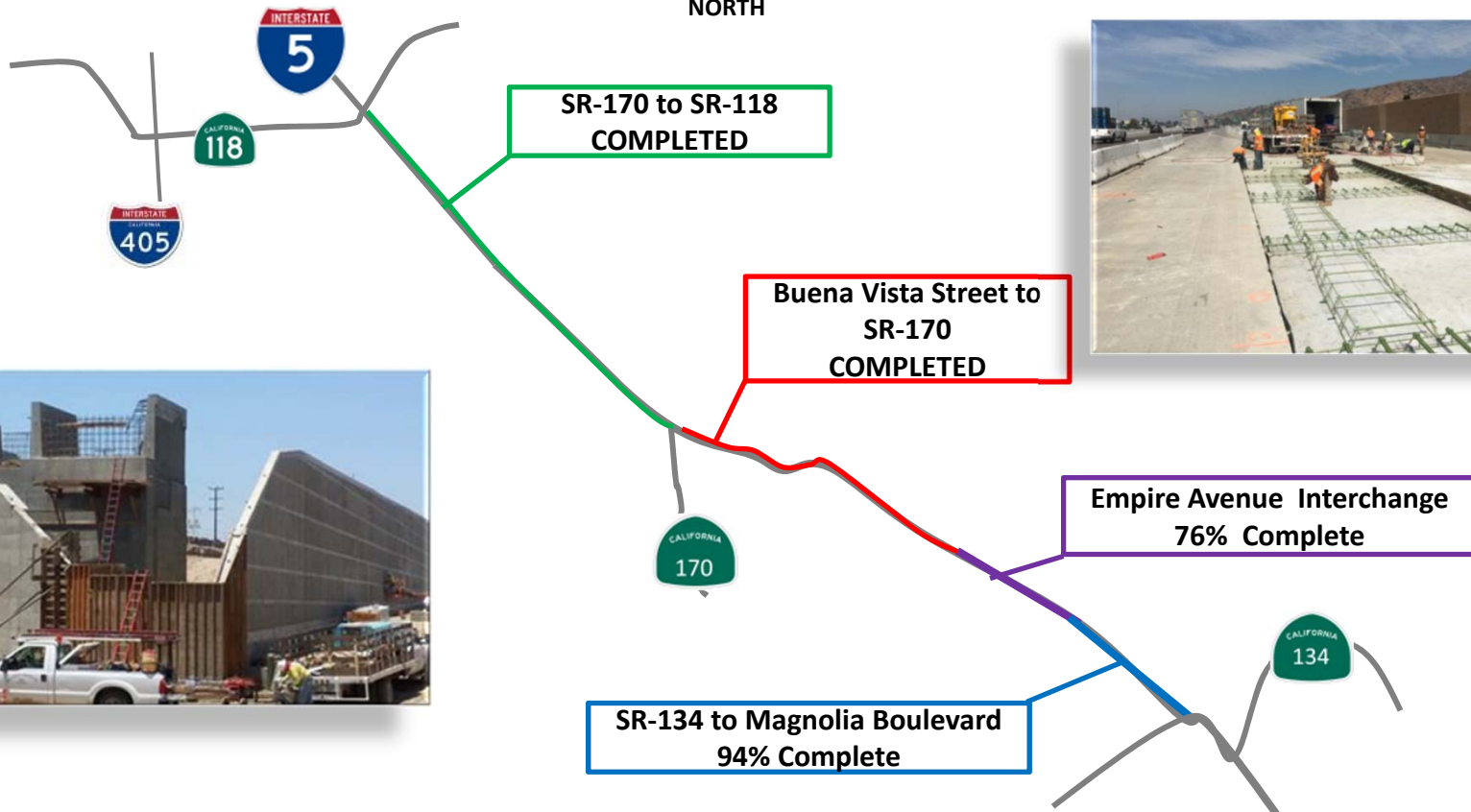
Forecast
\$912.8M*

! SCHEDULE

ANTICIPATED
PROJECT
COMPLETION

Current
Spring 2022

Forecast
Summer 2022



January 2020



On target



Possible problem



Major issue

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Risk Analysis, August 2019



Metro 12

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



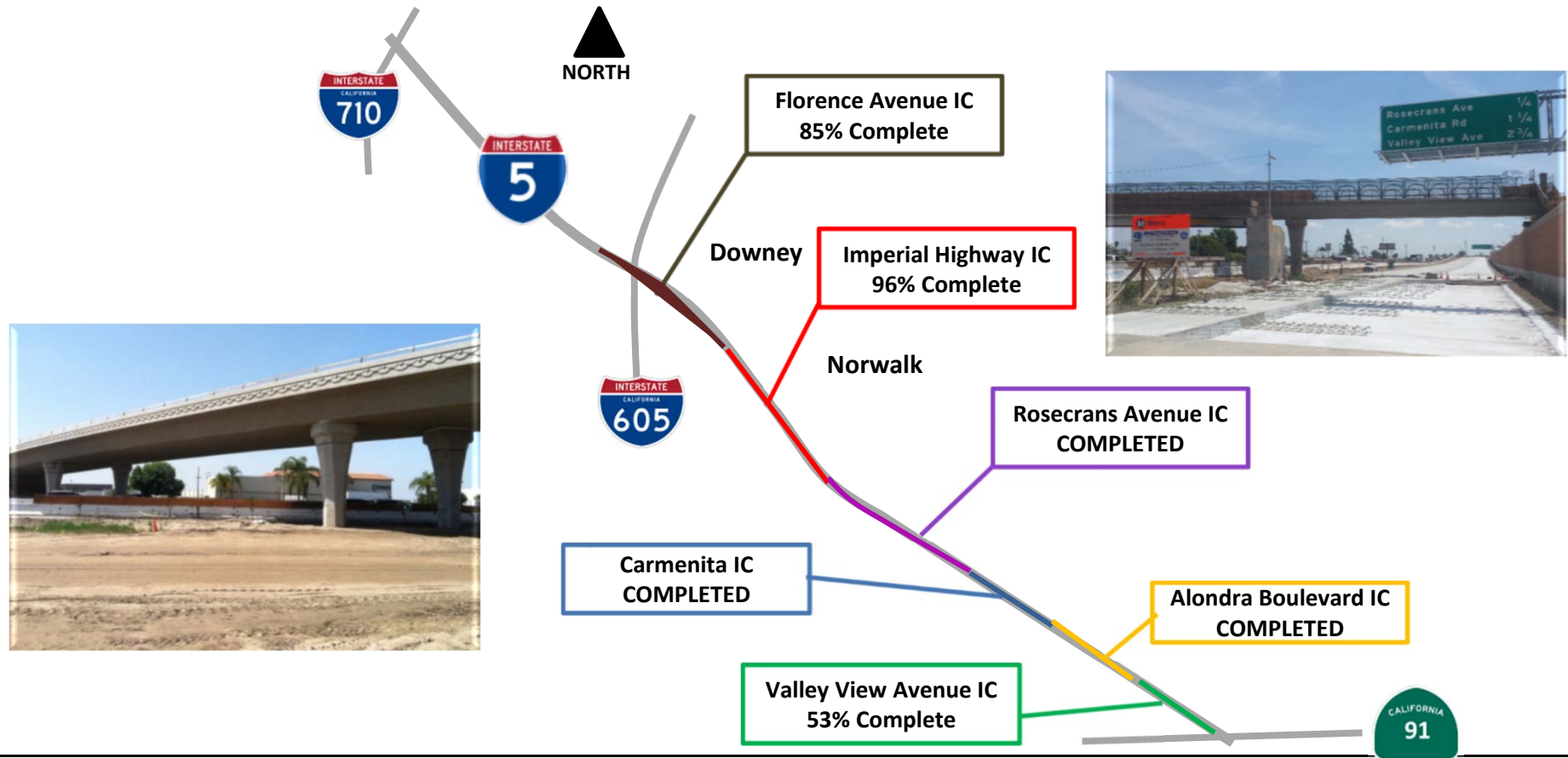
BUDGET

	Current	Forecast
TOTAL COST	\$1.888B	\$1.888B*



SCHEDULE

ANTICIPATED PROJECT COMPLETION	Current Fall 2022	Forecast Winter 2022
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January 2020

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On target



Possible problem



Major issue

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Risk Analysis, August 2019

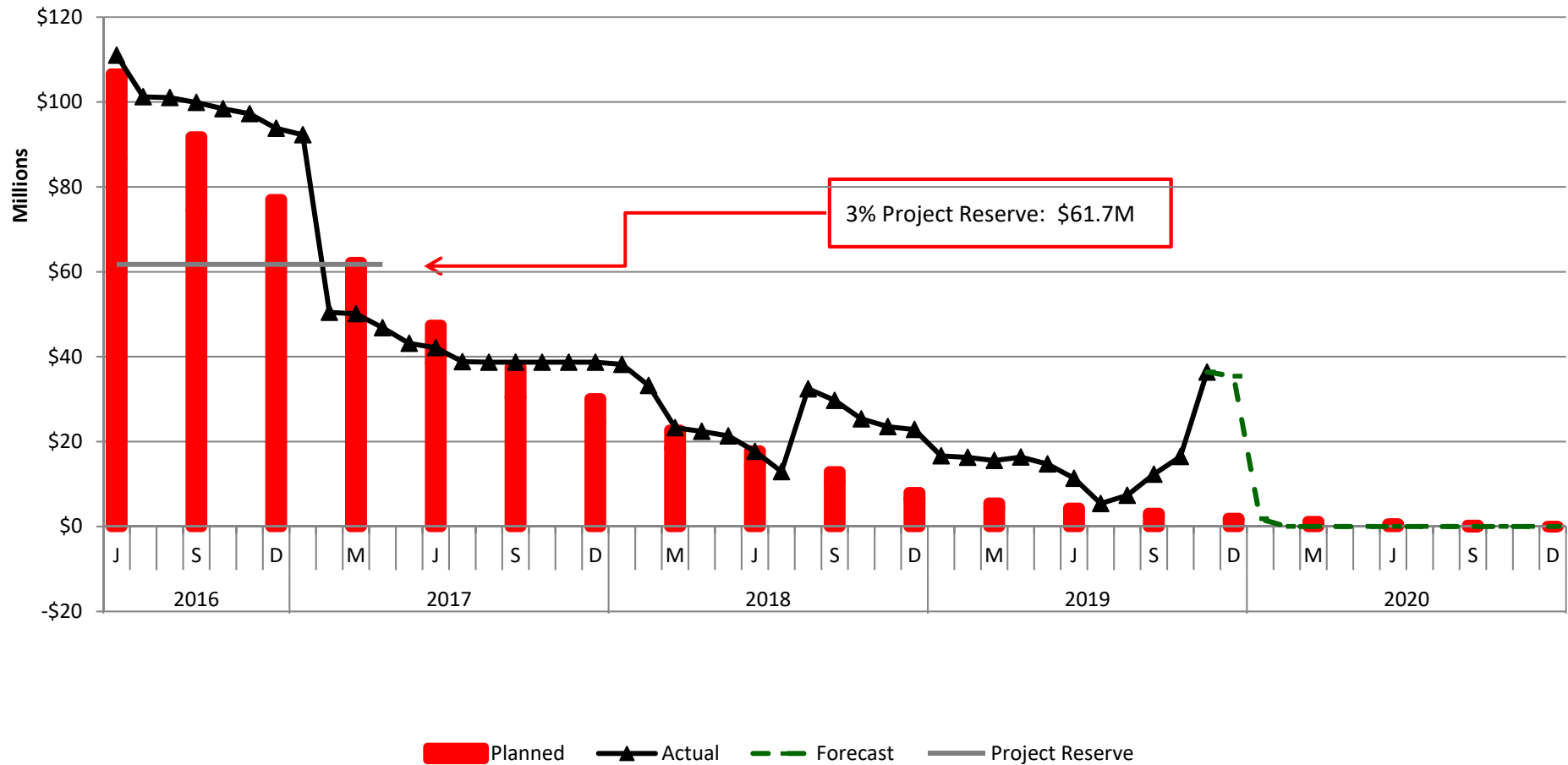


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Crenshaw/LAX Transit Project

Project Cost Contingency Drawdown

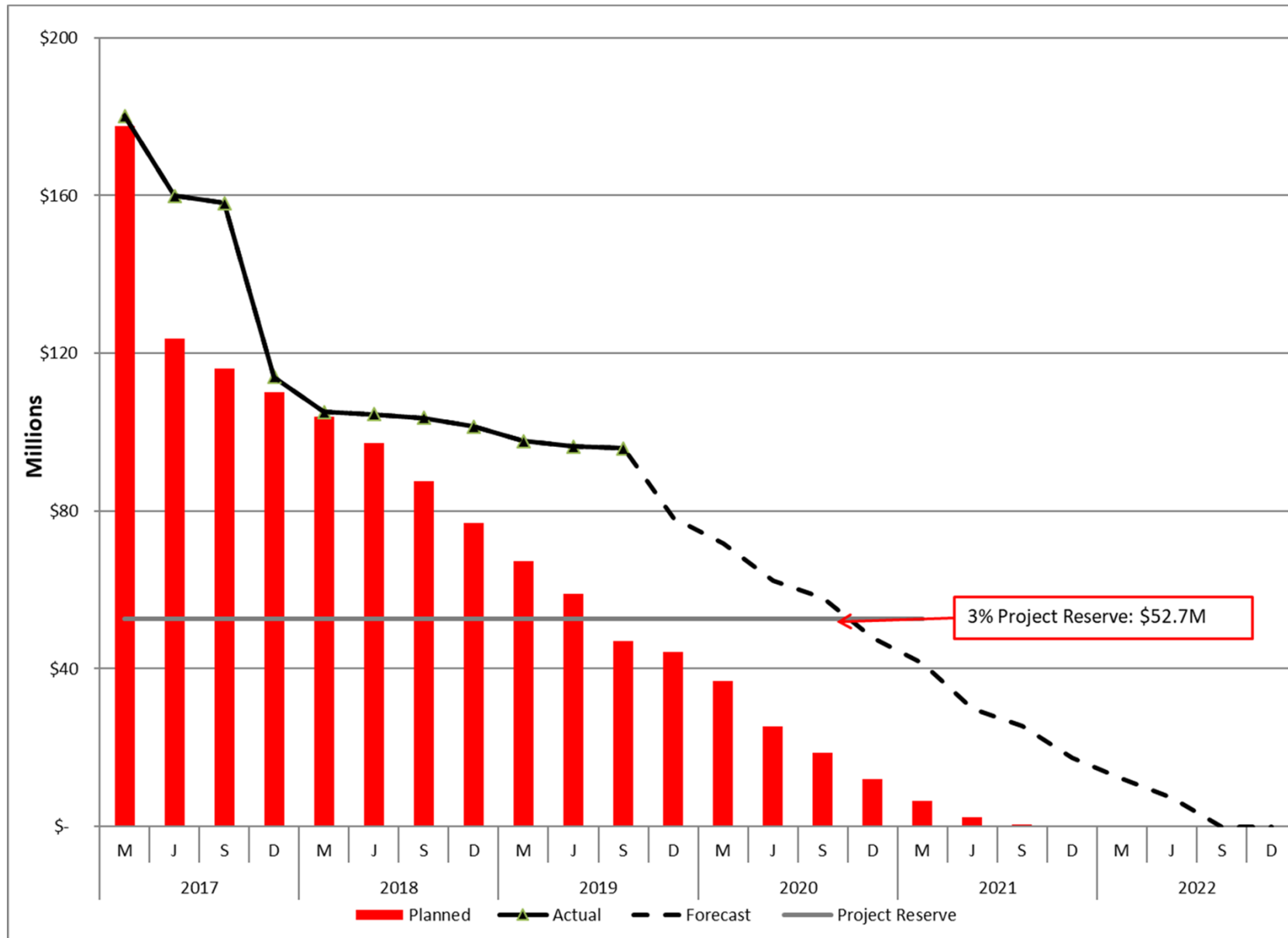
November 2019



Regional Connector

Project Cost Contingency Drawdown

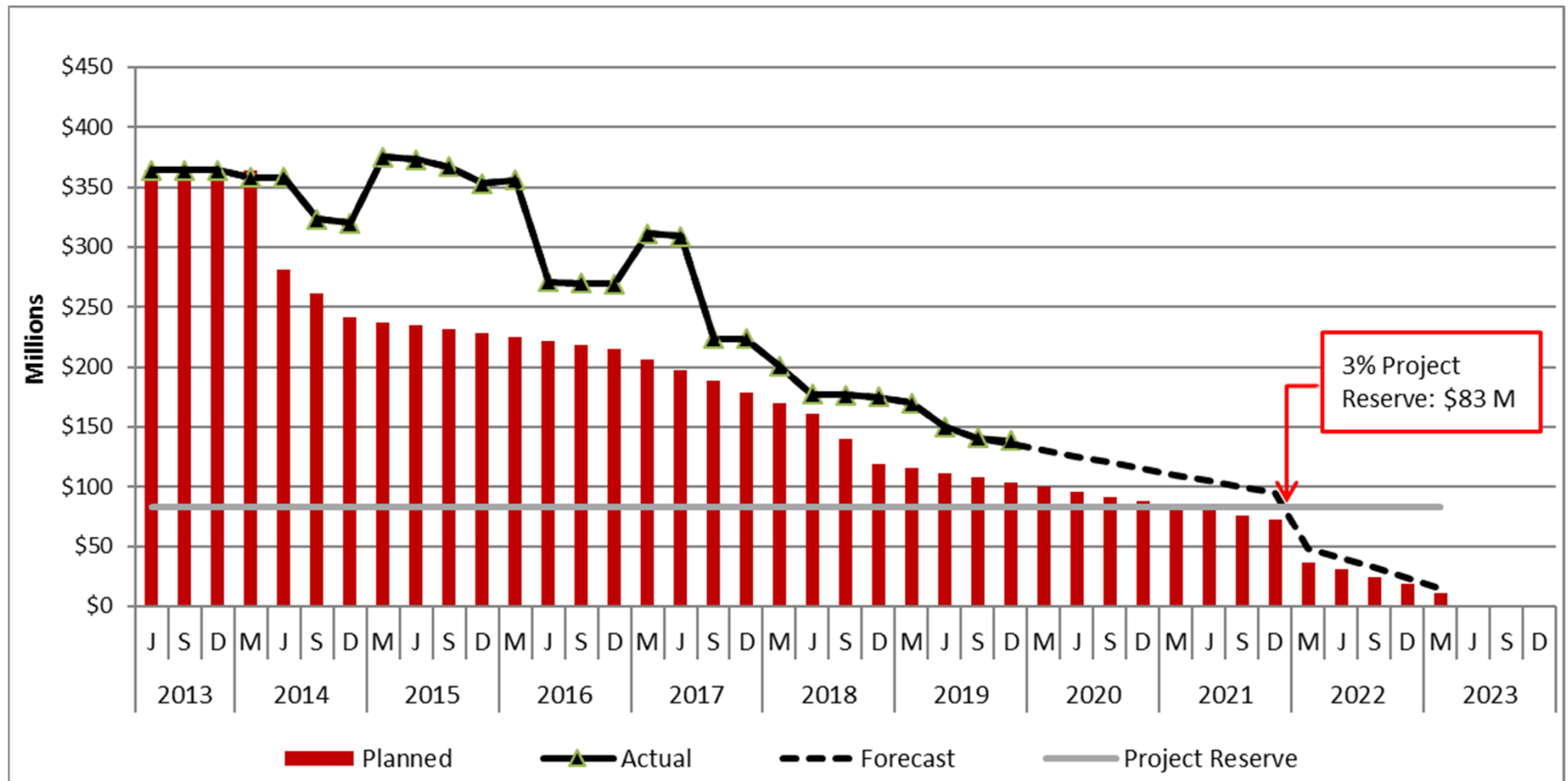
November 2019



Westside Purple Line Extension – Section 1

Project Cost Contingency Drawdown

December 2019



Westside Purple Line Extension – Section 2

Project Cost Contingency Drawdown

November 2019

