

Board Report

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

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CONSTRUCTION COMMITTEE SEPTEMBER 19, 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 September 2019 by the Chief Program Management Officer.

<u>ATTACHMENTS</u>

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

Program Management Major Project Status Report

Presented By

Richard Clarke

Chief Program Management Officer



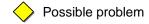
PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX	A	A	Project is 93% complete. The forecast revenue service date is Summer 2020.
Regional Connector	OK	ОК	Project is 58% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 1	OK	OK	Project is 50% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 2	OK	OK	Project is 20% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3	OK OK	ОК	C1152 Stations, Trackwork, Systems, and Testing Contract – Notice to Proceed (NTP) commenced on July 16, 2019.
Patsaouras Plaza	ОК	ОК	Project is 70% complete. Archaeological and Native American monitoring continues. Foundation work for the pedestrian overcrossing, busway canopy, elevator and walkway are complete.
Willowbrook/Rosa Parks Station	OK	ОК	Customer Service Building and mobility hub ongoing at 60% completion. Blue Line Station platform and mezzanine work progressing to topping slab and final utility infrastructure. In full coordination with New Blue. Package B 100% bid package has been delivered and is under review by Metro.
Metro Blue Line Projects	\Q	\Diamond	Metro Expo Line closure to be open on 8/24 while remaining work continues on the MBL. Testing of the North Segment will take longer than the South Segment due to the amount of new equipment that needs to be tested.
I-210 Barrier Replacement	OK	OK	In Final Design, Metro Systems has performed simulations and determined less than 10 minute headways during construction of Project 1. Metro met with Caltrans and has obtained conceptual approval of proposed stage construction & reduced lane widths for Project 1.
I-5 North: SR 118 to SR 134	<u> </u>	<u> </u>	Segment 3 (Empire) is 75% complete. Segment 4 (Magnolia to SR-134) is 92% complete.
I-5 South: Orange County Line to I-605	OK)	\Q	Segment 2 (Valley View) is 46% complete. Segment 3 (Rosecrans) is open to traffic. Segment 4 (Imperial) is 96% complete. Segment 5 (Florence) is 82% complete.

September 2019

Construction Committee









PROGRAM MANAGEMENT - OVERALL

- FTA Quarterly meeting September 4, 2019
- Started update of Program Management Plan (PMP)
- Tracking construction cost indices
- Unifier (Records Management) system implementation cutover in process
- Began implementation of new Quality Management System

CRENSHAW/LAX TRANSIT PROJECT

A BUDGET

TOTAL COST

Current \$2,058M

Forecast \$2,058M **▲ SCHEDULE**

REVENUE OPERATION

Current Summer 2020 Forecast Summer 2020

- Overall Project Progress is 93% complete; addressing contractor construction schedule.
- Contractor continues work to test the rail system software over a 10-weekend period at the Green Line and Crenshaw/LAX junction.
- Working with 3rd parties to complete power drops for traction power substations in support of testing systems equipment.
- Contractor preparing for Crenshaw Blvd road restoration in the Hyde Park neighborhood.



Weekend testing of the rail system software



Grading for Aviation/Century Station plaza and parking lot

September 2019





Possible problem





REGIONAL CONNECTOR TRANSIT PROJECT

BUDGET

TOTAL COST \$1,810M

Forecast \$1,810M **SCHEDULE**

REVENUE OPERATION

Current Spring/Summer 2022 Forecast
Spring/Summer
2022

- Overall Project Progress is 58% complete.
- **Tunnels:** Structural concrete commenced in Sequential Excavation Method (SEM) Cavern.
- Little Tokyo/Arts District Station, WYE and 1st Street: Structural concrete placement for station walls continues. Pre-Bus Bridge piling activities underway.
- Historic Broadway Station: Structural concrete continues in station entrance and throughout the concourse level.
- Grand Av Arts/Bunker Hill Station: Structural concrete walls continue to be erected at multiple levels throughout the station.
- Flower Street: Completed excavation and continued structural concrete. Completed break through of knock-out panel at 7th/Metro Station.



Wall form installation in SEM Cavern



Break through knock-out panel at 7th/Metro Center Station

September 2019





Possible problem





WESTSIDE PURPLE LINE EXTENSION – SECTION 1

BUDGET

TOTAL COST*

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

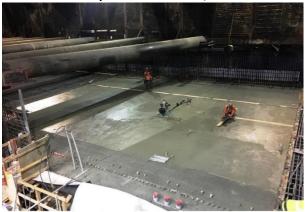
* Includes Board approved LOP budget plus finance costs.

Current Forecast
REVENUE Fall Fall
OPERATIONS 2024 (FFGA) 2023

- Overall Project Progress is 50% complete.
- Wilshire/Western Retrieval Shaft: Both Tunnel Boring Machines (TBM) broke through at the Western shaft in June 2019. Both TBMs are in the process of being transported from Western to the La Brea Station Yard.
- Wilshire/La Brea Station: HDPE and rebar installation for exterior walls above concourse slab continues. Placement of exterior wall concrete is scheduled for August 21, 2019. Work on the concourse level high bay area is scheduled to begin in December 2019.
- Wilshire/Fairfax Station: Invert rebar, MEP and concrete placement continues. Invert slab placement scheduled to complete in September 2019.
- Wilshire/La Cienega Station: Level D strut installation and daily maintenance of dewatering wells continues. Excavation to invert continues and remains scheduled to complete in August 2019.
- **Tunneling**: Reach 1 cross passage work is scheduled to start in October 2019. Reach 2 TBM launch is scheduled for late September / early October 2019.

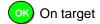


TBM Gantry Shield at Wilshire/Western



Invert Concrete Placement at Wilshire/Fairfax

September 2019





Possible problem





WESTSIDE PURPLE LINE EXTENSION – SECTION 2

BUDGET

TOTAL COST*

Current \$2,530M

Forecast \$2,530M

* Includes Board approved LOP budget plus finance costs.

SCHEDULE

REVENUE OPERATION

Current
Winter
2026 (FFGA)

Forecast Summer 2025

- Overall Project progress is 20% complete.
- Final design progress is 94% complete.

Century City Constellation

- Tunnel Boring Machine (TBM) launch box excavation is on going. The installation
 of the third level bracing has been completed and the fourth level bracing has
 commenced.
- Tunnel shaft excavation and installation of walers/struts is ongoing.
- LABOE granted an extension for the full street closure of Constellation Blvd until December 2019.
- Sound wall installation at the AT&T property has been completed.
- The ceremonial TBM naming and unveiling event was held on June 17, 2019. The names "Harriet" and "Ruth" were selected as the names for the two TBM's.
- Cable pulling and splicing for AT&T and LADWP is anticipated to complete prior to the start of piling activities west of the TBM Launch Box.
- Santa Monica bus layover construction is complete.

Wilshire/Rodeo

- Sound wall pile installation at Canon Yard is complete.
- Potholing for underground utilities are ongoing.
- Pre-Construction condition surveys are ongoing.



TBM Launch Box Excavation in Century City



Tunnel Shaft Excavation in Century City

September 2019





Possible problem





WESTSIDE PURPLE LINE EXTENSION – SECTION 3

BUDGET

Current **Forecast** \$3,611M \$3,611M

* Includes Board approved LOP budget plus finance costs.

SCHEDULE

Current **TBD**

Forecast 2027

REVENUE

OPERATION

C1151 Tunnel Contract

TOTAL COST*

- Detailed design is ongoing, including coordination with Southern California Edison (SCE) for approval of duct bank design to provide temporary power for TBMs.
- Continue coordination with FTA for the amended Veterans Affairs (VA) Memorandum of Agreement (MOA). Associated Historic Resources Monitoring and Discovery Plan (HRMDP) reviews are nearing completion.
- Continue real estate negotiations for access to VA property. Draft Access Easement Agreement (AEA) and draft Right of Entry (ROE) are under review.
- C1152 Stations, Trackwork and Systems Contract
 - NTP commenced on July 16, 2019.
- Other Third Party Utility Relocation Work
 - Joint trench for Verizon and Frontier telecom is ongoing.



Main Line A Excavation and Potholing



Hand Dug Excavation for Fiber Optic Conduit







Possible problem





PATSAOURAS BUS PLAZA STATION



TOTAL COST

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



SCHEDULE

SUBSTANTIAL COMPLETION

Current Spring 2020

Forecast Spring 2020

- Overall project progress at approximately 70% complete.
- Archaeological and Native American monitoring continues, causing occasional construction delays.
- Pedestrian overcrossing foundations completed
- Busway canopy foundations completed.
- Elevator and walkway foundation completed
- Walkway and Platform Falsework completed
- Retaining wall completed



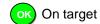
Pedestrian Walkway Columns



Elevator Platform Falsework



Elevator Enclosure





Possible problem





WILLOWBROOK/ROSA PARKS STATION



TOTAL COST

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



SUBSTANTIAL COMPLETION

Current Summer 2020 Forecast Summer 2020

- Package A: Customer Service and Mobility Hub building MEP infrastructure work nearly complete. Finish work ongoing. Formwork for public plaza has begun.
- Package C: Structural work has been completed with final utility infrastructure installation near completion. Topping slab, systems and finishes set to proceed. Project focus is on meeting New Blue operations deadline.
- Package B: Final coordination of 100% documents submitted for Metro review.







Mezzanine Extension and Platform Work ongoing



Mobility Hub and Plaza Work





Possible problem



Major issue



September 2019

THE NEW BLUE CLOSURE

BUDGET

TOTAL COST

Current \$221.3M

Forecast \$221.3M



SCHEDULE

SUBSTANTIAL COMPLETION

Current Fall 2019 Forecast Fall 2019

- Overhead conductor rail (OCR) completed for the 7^{th/} Metro Tunnel
- Expo Line will re-open August 24th as planned.
- South Segment work completed and operating normally. Some punch list items remaining which are being addressed.
- North side construction work is progressing per plan; however, Metro test team forecasts more than double the amount of testing will be required compared to the South Segment.



Testing of the new Overhead Conductor Rail (OCR)



Replacing trackwork at Expo Junction



Installing New Overhead Catenary System (OCS)

September 2019





Possible problem





I-210 BARRIER REPLACEMENT PROJECT



TOTAL COST

<u>Current</u> \$22.54M

Design

Forecast \$22.54M Design



SCHEDULE

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

Forecast
Summer 2019
Spring 2020

- Metro met with Caltrans and obtained conceptual approval of the Stage Construction Plans including the proposed reduced lane widths for Project 1 to avoid lane closures.
- Draft Communication Plan has been developed and is ready for Metro review.
- Project 1: Segment from Michillinda to Iconic Bridge Train Simulations have been performed and the results show less than 10 minute headways with single tracking during construction of Project 1 is achievable.
- 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.



Newly Installed Caltrans Freeway Sign



Incident in 2014



Newly Installed Speed Limit Sign

OK On target



Possible problem



Major issue



September 2019

I-5 Construction Projects (By Caltrans)





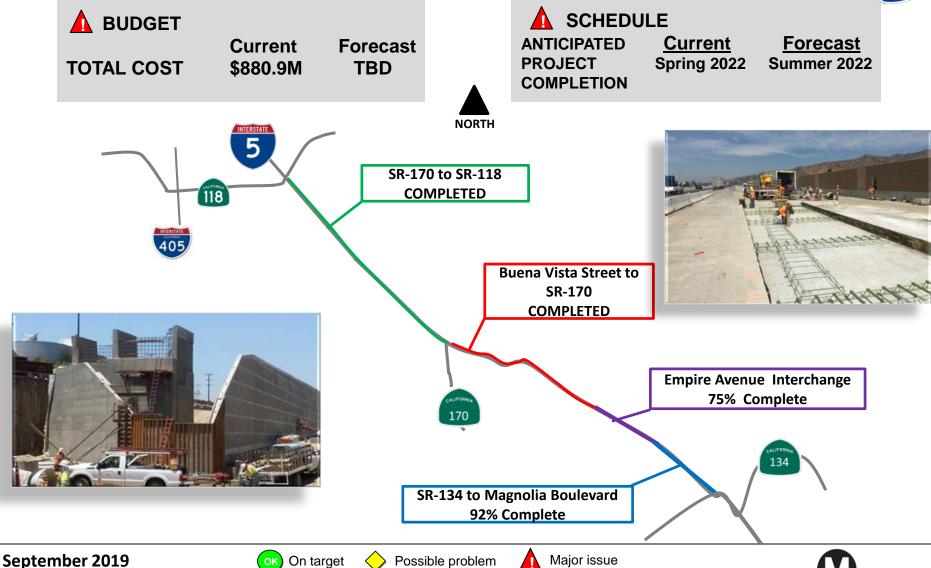
September 2019

Construction Committee

Los Angeles County Metropolitan Transportation Authority

I-5 NORTH: SR 118 TO SR 134





Construction Committee

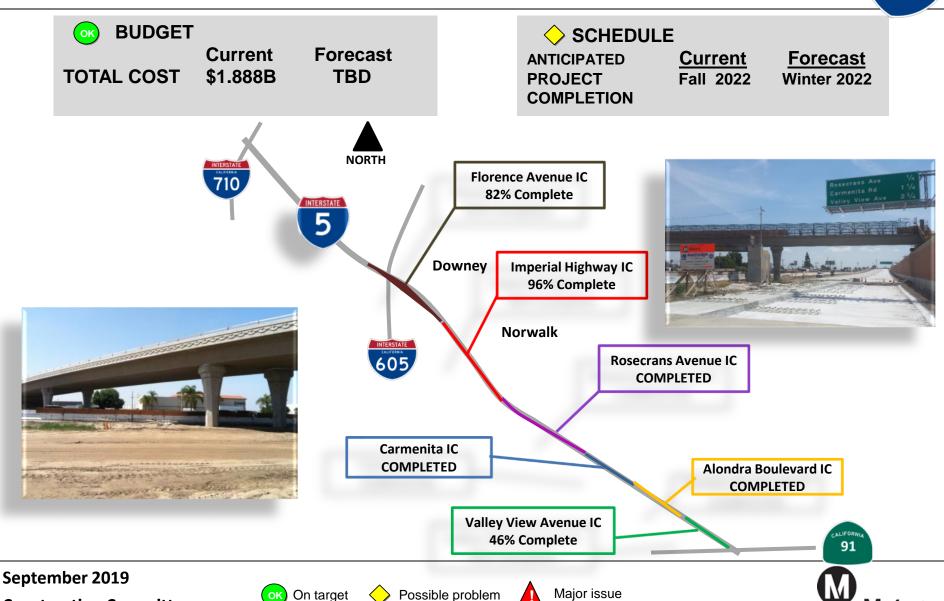
Possible problem







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



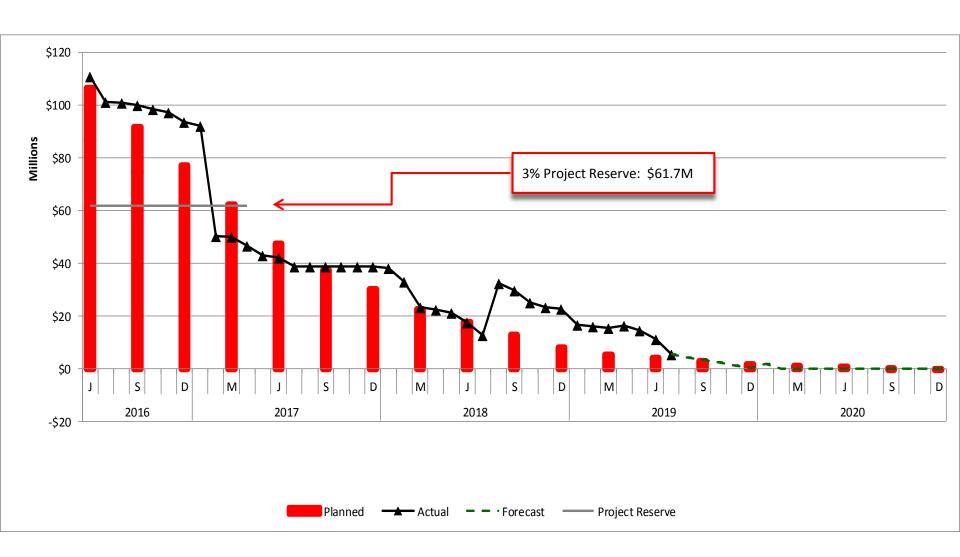
Metro 15

Los Angeles County Metropolitan Transportation Authority

Construction Committee

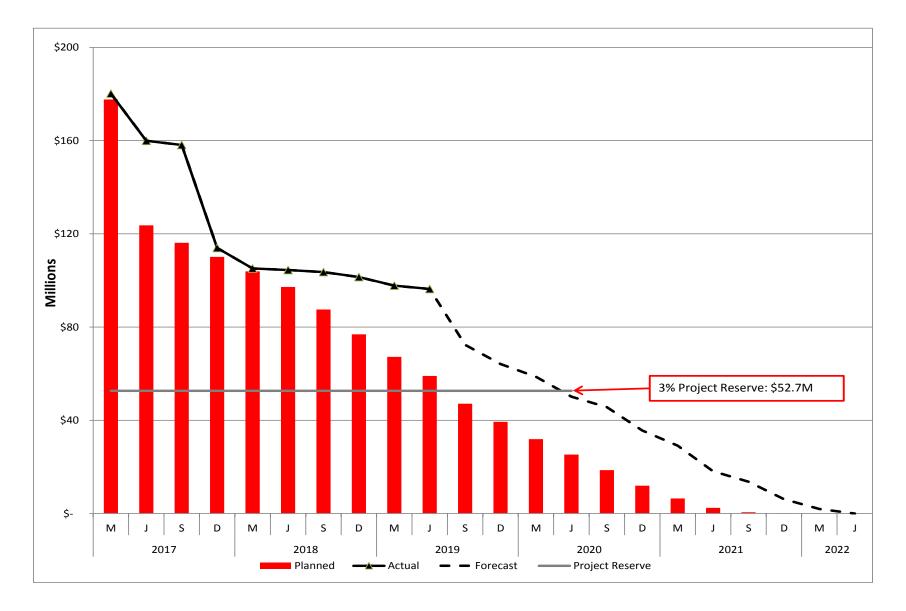
Crenshaw/LAX Transit Project





Regional Connector





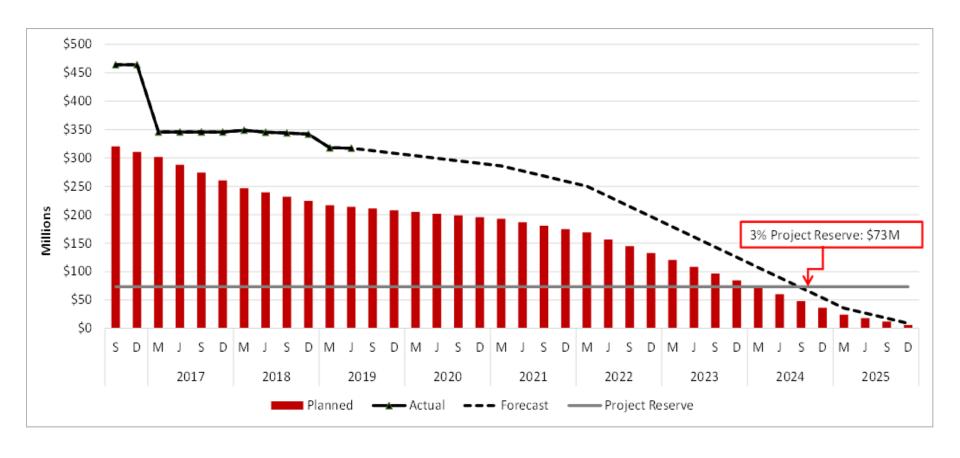
Westside Purple Line Extension – Section 1





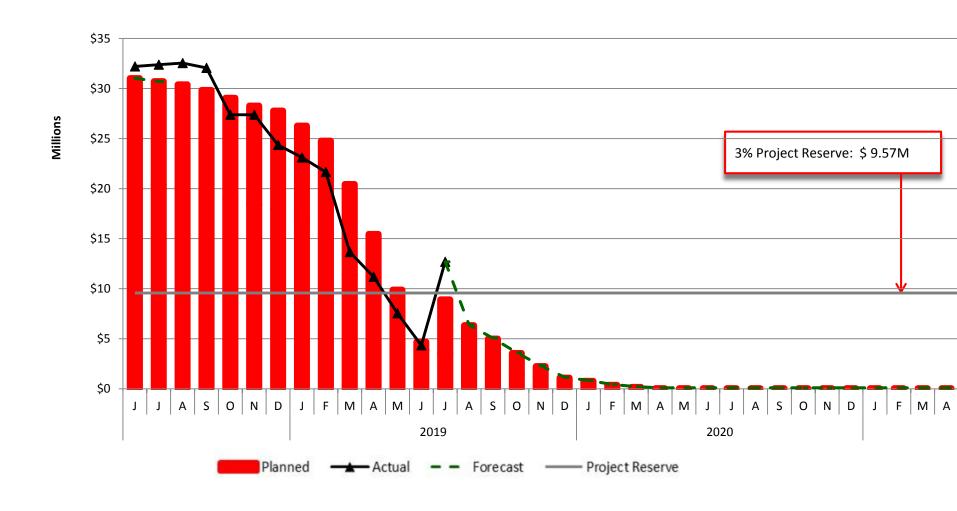
Westside Purple Line Extension – Section 2





New Blue Projects





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