

Board Report

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

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CONSTRUCTION COMMITTEE MARCH 18, 2021

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 March 2021 by the Chief Program Management Officer.

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, Sr. EO Project Engr., (213) 922
 -7297
- Willowbrook/Rosa Park Station -Timothy Lindholm, Sr. EO Project Engr., (213) 922-7297
- I-210 Barrier Replacement Androush Danielians, EO Project Engr., (213) 922-7598
- I-5 North County Enhancements-Timothy Lindholm, Sr. EO Project Engr., (213) 922-7297
- 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, Mgr, Project Control, (213) 418-3031

Phillip A. Washington Chief Executive Officer

Program Management Major Project Status Report

Presented By

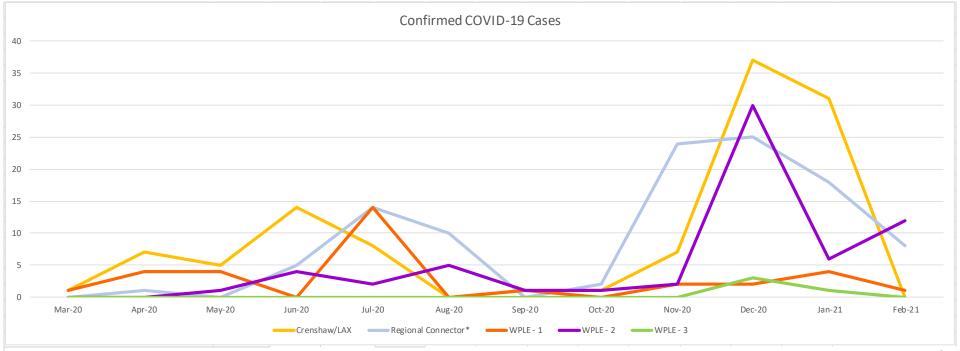
Richard Clarke

Chief Program Management Officer



Impact of COVID-19 Cases on Mega Construction Projects (as of 2/28/2021)

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Metro Mega Construction Projects COVID-19 Confirmed Cases													
Project	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Total Cases to Date
Crenshaw/LAX	1	7	5	14	8	0	1	1	7	37	31	0	112
Regional Connector*	0	1	0	5	14	10	0	2	24	25	18	8	107
WPLE - 1	1	4	4	0	14	0	1	0	2	2	4	1	33
WPLE - 2	0	0	1	4	2	5	1	1	2	30	6	12	64
WPLE - 3	0	0	0	0	0	0	0	0	0	3	1	0	4



PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX	\rightarrow	^	Project is 98% complete. Contractor is not applying sufficient work force to complete their remaining work. Metro continues to work with contractor to mitigate the schedule forecast; emphasizing safety and reliability in final acceptance of project elements and systems.
Regional Connector	OK	ОК	Project is 78% complete. Schedule agreement mitigated Load Transfer System (LTS) delays and incentivized Contractor to finish balance of project early. Work shifting from civil structural to systems and finishes.
Westside Purple Line Extension-Section 1	<u> </u>	^	Project is 68% complete. Reviewing the impacts differing site conditions and third-party requirements had on the project schedule. The Reach 3 anomaly is significantly impacting critical path tunnel mining activities as well as the project's budget.
Westside Purple Line Extension-Section 2	OK	OK	Project is 42% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3	ОК	OK	Project is 18% complete and proceeding on schedule and within budget.
Willowbrook/Rosa Parks Station	OK	\rightarrow	Package A Final Punch List Scheduled to begin Package Closeout. Package B is in full progress with underground utility work and vertical circulation work. Elevator #4 at the C Line West entrance, a major phase for the project, is expected to be completed by 1st quarter 2021.
I-210 Barrier Replacement	<u>ok</u>	OK	Project 1 Plans, Specs and Estimate (PS&E) package is finalized. However, the construction permit for Project 1 will be granted once the Aerially Deposited Lead (ADL) testing has been completed and submitted to Caltrans. Funding source(s) for ADL testing and Project 1 construction are still to be determined. Project 2 Barrier analysis began in February. Development of Project Study Report (PSR) for Project 2 is underway.
1-5 North County Enhancements	OK OK	ОК	Project is in procurement and is expected to begin construction in Summer 2021.
I-5 North: SR 118 to SR 134	<u> </u>	<u> </u>	Segment 1 and 2 are completed. Segment 3 (Empire Ave & Burbank) is 88% complete. Segment 4 (Magnolia to SR-134) is 98% complete and began the plant establishment phase on June 1, 2020.
I-5 South: Orange County Line to I-605	OK	\langle	Segments 1, 3, and the Carmenita Interchange are completed. Segment 2 (Valley View) is 74% complete. Segment 4 (Imperial) is 97% complete and began the plant establishment phase on Jan 31, 2020. Segment 5 (Florence) is 92% complete.

March 2021









CRENSHAW/LAX TRANSIT PROJECT

♦ BUE

BUDGET

TOTAL COST \$2,148M

Forecast \$2,148M SCHEDULE

REVENUE OPERATION

Current May 2021

Forecast Winter 2021

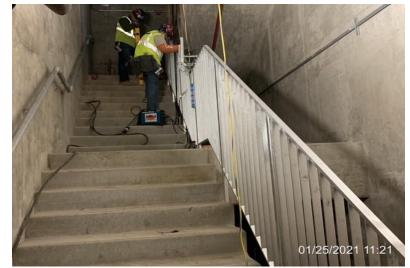
Overall Project Progress is 98% complete.

Current

- Contractor is not applying sufficient work force to complete their remaining work.
- Metro continues to work with contractor to mitigate the schedule forecast; emphasizing safety and reliability in final acceptance of project elements and systems.
- Remaining work is primarily systems—power, train control, station/tunnel fire life safety & communications.



LEIMERT PARK STATION – Main entrance canopy art installation



MLK Station – Installing guard rail at emergency exit stairs

March 2021





Possible problem





REGIONAL CONNECTOR TRANSIT PROJECT



TOTAL COST \$

Current \$1,829M

Forecast \$1,829M



REVENUE OPERATION

Current Summer/Fall 2022 Forecast Summer/Fall 2022

- Overall Project Progress is 78% (March Projection) complete.
- Little Tokyo/Arts District Station & Surrounding Area: Final 1st
 Street guideway pours underway; utilities continue.
- Historic Broadway Station: Construction work on the overbuild load transfer system work is continuing; site restoration underway.
- Grand Av Arts/Bunker Hill Station: Final underground concrete pours complete; Escalator installations and finishes underway; Pedestrian Bridge pours in-progress.
- Flower Street: Final walkways and Mechanical, Electrical, & Plumbing (MEP) continuing; Final utility work underway; Cutover plans with 7th/Metro Station require close coordination with Operations to establish priorities.
- Trackwork: Crossover installation east of Broadway Station underway.
- Systems: Overhead Conductor Rail (OCR) installations continue; Field preparations for signals underway; Expediting of electrical equipment due to COVID supply chain delays underway.



Special trackwork installation in Crossover Cavern



Power distribution equipment at Grand Av Arts/Bunker Hill Station

March 2021





Possible problem





WESTSIDE PURPLE LINE EXTENSION – SECTION 1

A BUDGET

TOTAL COST*

Current Forecast \$3,354M \$3,354M

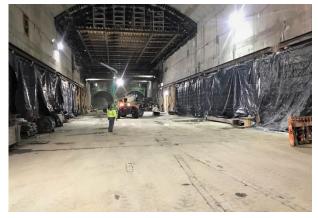
* Includes Board approved LOP budget plus finance costs.

▲ SCHEDULE

REVENUE OPERATIONS

Current Fall 2024 (FFGA) Forecast Fall 2024

- Overall Project Progress is 68% complete.
- Wilshire/La Brea Station: Permanent utility installation/backfill (above the roof) activities, plenum work and appendage construction continue.
- Wilshire/Fairfax Station: Concourse and 2nd lift wall concrete activities continue. Entrance plaza and appendage work move forward. The build out of the roof forming system in the high bay area has commenced.
- Wilshire/La Cienega Station: The last roof placement prior to the anticipated TBM arrival has been placed. Work on the entrance structure continues. Preparation for Tunnel Boring Machine (TBM) arrival is on-going.
- Tunneling: The Wilshire/San Vicente grout block for the north and south tunnels have been completed. The Purple TBM (Elsie) has restarted and has reached the anomaly area. Anomaly intervention is underway. The Red TBM (Soyeon) remains parked 190' from the anomaly site.
- Reach 1 Tunnel: 11 out of 12 cross passages have been excavated. Concrete placement for 8 cross passages are complete. Completion of all Reach 1 cross passages is planned for April 2021. Tunnel invert activities in the north tunnel have commenced.
- **Budget/Schedule:** The Reach 3 anomaly and gas issues along the alignment have impacted the Project schedule and budget. The impact is expected to be significant. The current Revenue Service Date forecast is the 4th quarter of 2024. Budget impacts are currently being assessed. Metro and the FTA will conduct a formal risk assessment after mining through the anomaly in mid-2021. The Board will be briefed on the outcome.



Track Level View of Wilshire/La Cienega Station



Installing Roof Rebar at Wilshire/Fairfax

March 2021



On target



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 42% complete.

Century City Constellation Station

- Completed pile installation at the intersection of Constellation Boulevard and Avenue of the Stars.
- Installation of utility supports continues west of the TBM launch box.
- Decking operations are anticipated to be completed in April 2021.

Wilshire/Rodeo Station

- Excavation of the station box was 93% complete as of February 17, 2021
- Installation of waterproofing membrane on the station walls is anticipated to begin in April 2021.

Tunneling

- Both Tunnel Boring Machine (TBM)s "Ruth" and "Harriet" are operating within the City of Beverly Hills. Progress as of February 17, 2021 is as follows:
 - o Ruth (eastbound subway tunnel) 545ft
 - Harriet (westbound subway tunnel) 983ft
- Tunneling operations are transitioning from the TBM launch box area to the access shaft.



Pile Installation on Constellation & Avenue of the Stars



Excavation - Wilshire/Rodeo Station

March 2021





Possible problem





WESTSIDE PURPLE LINE EXTENSION – SECTION 3

BUDGET

TOTAL COST* \$3.611M \$3.611M

* Includes Board approved LOP budget plus finance costs.



REVENUE OERATION

Current
Winter
2028 (FFGA)

Forecast Spring 2027

- Overall Project progress is 18% complete
- Final design progress is 78% complete

C1151 Tunnel Contract

- TBM #1 (BR) has mined 331 feet resumed mining after refitting gantries 2, 3, & 4.
- TBM #2 (BL) assembly continues at the BL headwall.
- Fabrication of tunnel precast concrete liners are ongoing.
- Installation of instrumentation and monitoring equipment are ongoing.
- Aerially Deposited Lead removal is complete, and work is proceeding at Caltrans basin.

C1152 Stations, Trackwork, and Systems Contract

- Final design is ongoing.
- VA Campus sound wall has been completed.
- VA Campus utility relocation work began in January 2021. Relocations include natural gas, storm drain, sewer, water, electric, and steam lines.
- VA Campus SOE installation is scheduled to start in February 2021.
- UCLA Station utility sewer (Ashton & Westwood) relocation to start in February 2021.

Other Work

- Joint trench for Verizon and Frontier telecommunications is substantially complete; punch list expected to be complete in February 2021.
- LADWP power cutover to 10921 Wilshire Boulevard is planned for spring of 2021.

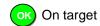


TBM Assembly Overview at Tail Track Exit Shaft



Sound Wall Barrier at Westwood/VA Station Site (VA Lot 42)

March 2021





Possible problem





WILLOWBROOK/ROSA PARKS STATION

BUDGET

TOTAL COST

Current \$128.4M <u>Forecast</u> \$128.4M



SCHEDULE

SUBSTANTIAL COMPLETION

Current March 2021 Forecast May 2021

- Package A and C: Landscape Punch completed with warranty period started. Final punch items in progress.
- Package B: Package B underground utility work ongoing at both C Line west and Central entrances. Installation of new County required storm drain in progress. Elevator 4 work at the C Line West Entrance is ongoing with temporary sidewalk and state inspection approval expected by end of February. Once certified, the project will be cleared to close up the entire central plaza for main Package B work.



New Curb Kiss & Ride Lot @ Central Plaza



Stair/Escalator Work @ Central Plaza



Soil remediation completed @ Bus Lane



Phase 1 Finish Work completed

March 2021





Possible problem





I-210 BARRIER REPLACEMENT PROJECT



TOTAL COST \$22.54M

Design

Forecast \$22.54M

Design



SCHEDULE

Complete Design (Proj 1)
Complete Design (Proj 2)

Current Feb 2021 Aug 2022 Forecast
Winter 2021
Summer 2022

- Project 1: Segment from Michillinda to Iconic Bridge Project 1 Plans, Specs and Estimate (PS&E) package is finalized. However, the construction permit for Project 1 will be granted once the Aerially Deposited Lead (ADL) testing has been completed. Funding source(s) for ADL testing and construction for Project 1 are still to be determined.
- Project 2: Segment from west end of the project to Michillinda Barrier analysis began in February. Development of Project Study Report (PSR) for Project 2 is underway.



Newly Installed Caltrans Freeway Sign



Incident in 2014



Newly Installed Speed Limit Sign





Possible problem



Significant Impact



March 2021

I-5 Construction Projects (Administered by Metro)





March 2021

Construction Committee

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I-5 NORTH COUNTY ENHANCEMENTS

BUDGET

TOTAL COST

<u>Current</u> \$679.3M Forecast \$679.3M

SCHEDULE

SUBSTANTIAL COMPLETION

Current Spring 2026

Forecast Spring 2026

- Project is in procurement phase, bids due February 24th.
- Construction is expected to begin in Spring 2021.
- Advanced utility relocations complete, collecting as-built plans.



March 2021





Possible problem





I-5 Construction Projects (By Caltrans)



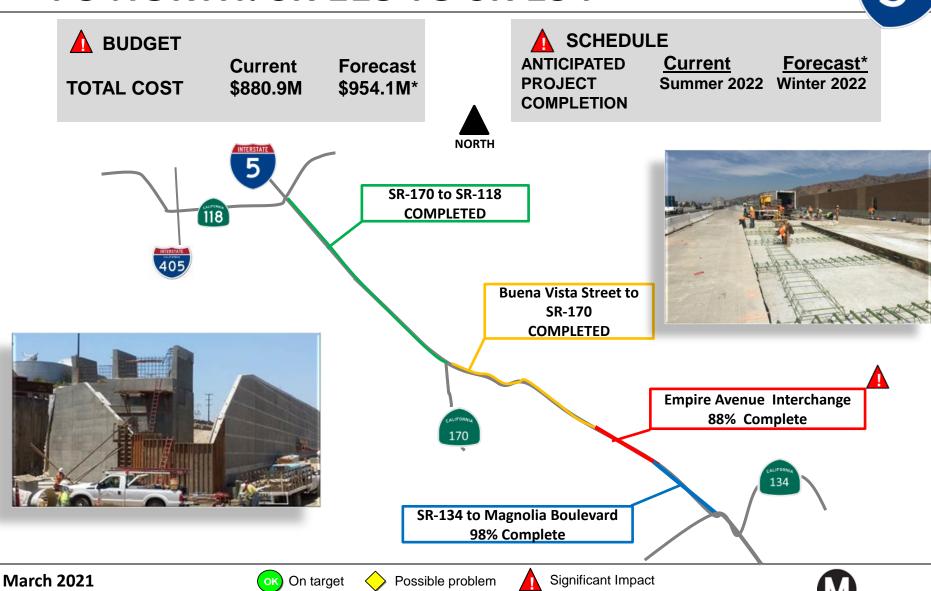


March 2021

Construction Committee

Los Angeles County Metropolitan Transportation Authority

I-5 NORTH: SR 118 TO SR 134



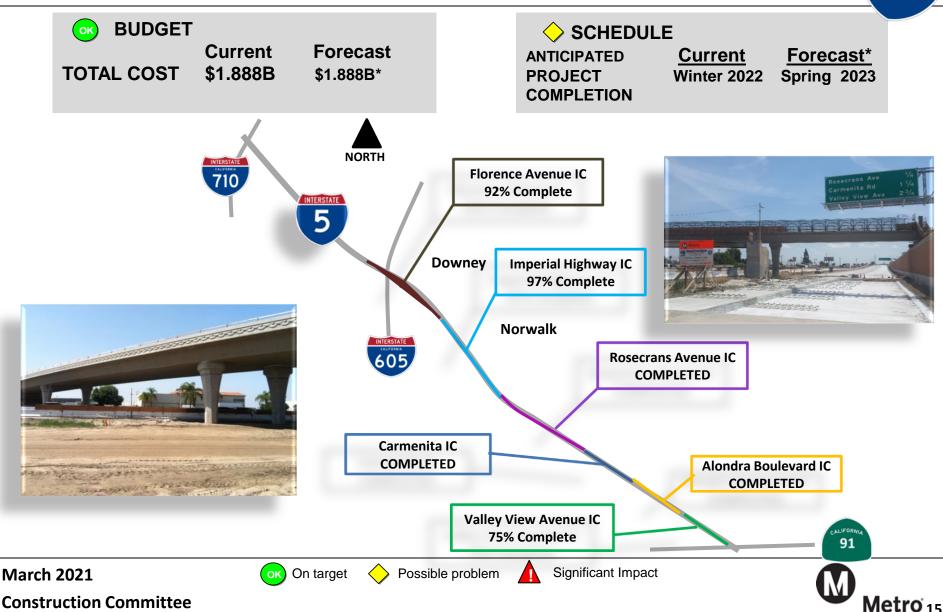
Construction Committee

Los Angeles County Metropolitan Transportation Authority

* Risk Analysis, Nov 2020 and Caltrans' request

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



Construction Committee