

# Transit & Highway (Capital) Update

**Measure M Oversight Committee**

October 2024

**Julie Owen**

Sr. EO, Project Management Oversight



**Metro**

# Transit / Highway Engineering and Construction

## Construction Projects

- Gold Line Foothill Extension Phase 2B – Pomona
- Airport Metro Connector
- Westside Purple Line – Section 3
- 15N County Enhancements

## Alternative Delivery Projects

- 105 Express Lanes
- G Line BRT Improvements Project
- East San Fernando Valley Transit Corridor
- North Hollywood to Pasadena BRT Project



## Operational Projects

- North San Fernando Transit Corridor Project







# Gold Line Foothill Extension Phase 2B

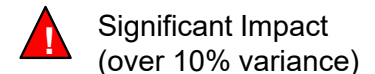
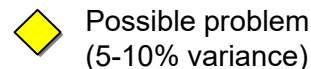
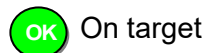
BUDGET				
		Approved LOP*	Previous Period	Current Forecast
		\$1,533M	1,533M	\$1,533M
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
Variance from Revised Budget:			\$0 	

\* At time of the award of contract – Board Approval (June 2017)

SCHEDULE			Revenue Operation	
	Original *	Approved Rebaseline	Previous Period	Current Forecast**
	January 2025	N/A	Summer 2025	Summer 2025
	Variance from Original:		0d (0%)	0d (0%) 
Variance from Revised Schedule:		n/a	n/a 	

\* The Original date reflects the Authority's Substantial Completion date

\*\* Current Forecast is from the Authority's June 2023 Schedule Update. Authority forecasts Substantial Completion at January 2025, and assumes Revenue Operation will follow 6 months later.



# Gold Line Foothill Extension Phase 2B

## Safety

- Project Hours: 2,172,393
- Recordable Injury Rate: 0.28 vs. the National Average: 2.4.

## Updates

- **Overall Project Progress is 86% complete**

## Construction is planned and will continue as follows:

- Sound wall and fencing throughout the project
- 4 new stations: Glendora, San Dimas, La Verne, and Pomona
- LRT train control, Overhead Catenary System (OCS) poles and wire installation
- Continue local field acceptance testing for traction power substations (TPSS's)
- Begin systems integration testing

## Equity

- 25% of the project is located within or adjacent to Equity-Focus Communities.



Fulton to Garey - OCS





San Dimas Avenue – Roadway Paving



# LAX/Metro Transit Center (AMC)

BUDGET				
		Approved LOP*	Previous Period	Current Forecast
		\$898.6M	\$898.6M	\$898.6M
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
Variance from Revised Budget:			\$0 	

\* Approved April 2021 Board

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast**
	Fall 2024	N/A	Fall 2024	Fall 2024
	Variance from Original:		+0d (0%)	+0d (0%) 
Variance from Revised Schedule:			N/A 	

\*\* Current Forecast is Metro's June 2023 Schedule Update





# LAX/Metro Transit Center (AMC)

## Safety

Project Hours: 948,198; Recordable Injury Rate: 1.69 vs.  
The National Average: 2.4.

## Updates

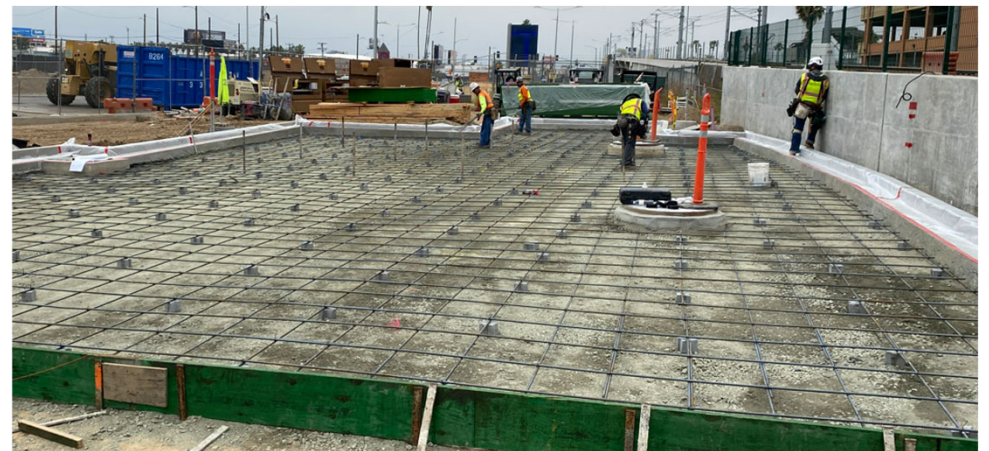
**Overall project progress is 84.8% complete**

Primary Station Construction at 81.6% completion

- Various activities continue at the roof/ceiling level including fire sprinkler system, exterior soffits, overhead utilities, tech bar, and fireproofing
- Station build-outs continue including interior and exterior wall framing, architectural metal mesh panels, interior framing & drywall, utility rough-ins, mechanical system, electrical system, low voltage systems, and wire pulling.
- Begin installation of platform fence and ballast retainer wall fence
- Continuation of all vertical circulation system work including elevator & escalator systems, and terrazzo stair finishes.
- Aviation Blvd B-Permit approved by City of Los Angeles. Demolition and grading operation commenced.
- Train Control SIT-1 testing has been completed.
- Construction trailers removed from site to further progress on sitework.
- Roadway and Hardscape activities progressing site-wide

## Equity



- 100% of the project is located within or adjacent to Equity Focus Communities.



July 2024 Construction Committee



Los Angeles County Metropolitan Transportation Authority

# Westside Purple Line Extension – Section 3

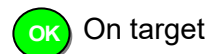
BUDGET	FFGA	Approved LOP*	Previous Period**	Current Forecast**
	\$3,599 M	\$3,224 M	\$3,277 M	\$3,277 M
	Variance from Approved LOP:		+\$53M (1.6%)	+\$53M (1.6%) 
	Variance from Revised Budget:			\$0 

\* At time of the award of contract – Board Approval February 2019

\*\* Excludes finance costs. In June 2023, the Board approved \$53M LOP increase for Concurrent Non-Full Funding Grant Agreement (Non-FFGA) activities.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
	March 2027	Summer 2027	Summer 2027	Summer 2027
	Variance from Original:		+131d (3.91%)	+131d (3.91%) 
Variance from Revised Schedule:			+0d (0%) 	

\* Based upon agreed acceleration modification.





# Westside Purple Line Extension – Section 3

## Safety

Project Hours: 3,280,555 Recordable Injury Rate: 1.46 vs. The National Average: 2.4.

- C1151: Project Hours: 1,711,660; Recordable Injury Rate: 2.45.
- C1152: Project Hours: 1,568,895; Recordable Injury Rate: 0.38.

## Updates

- **Overall Project Progress is 52% complete.**
- **Final design progress is 97% complete.**
- **Westwood/UCLA Station**
  - Excavation is 95% complete. Walers and struts continue to be installed at level 5; 92% of walers and struts have been installed.
- **Westwood/VA Hospital Station**
  - Excavation is 93% complete. Walers and struts continue to be installed at level 5; 92% of struts and walers have been installed. 95% of tiebacks and shotcrete have been installed.
  - Mechanical, Electrical, and Plumbing fit-out inside the VA steam tunnel is 99% complete.
- **Tunnels**
  - Cross passage work in the tunnels continues.

## Equity

- 1 of 2 stations (50%) are within or adjacent to Equity Focus Communities.



**Westwood/UCLA Station:**  
Placing Shotcrete for Row 4 Soil Nails at East Headwall





**Westwood/VA Hospital Station:**  
Excavation in Station Box







# I-5 North County Enhancements

BUDGET			
	Approved LOP*	Previous Period	Current Forecast
	\$679.3M	\$679.3M	\$679.3M
Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
Variance from Revised Budget:			\$0 

\* At time of the award of contract - Board Approval (March 2021)

SCHEDULE	Substantial Completion		
	Original	Approved Rebaseline	Current Forecast
	July 2026	N/A	Summer 2026
Variance from Original:			+0d (0%) 
Variance from Revised Schedule:			N/A 



# I-5 North County Enhancements

## Safety

Project Hours: 650,956; Recordable Injury Rate: 0.92 vs. The National Average: 2.4.

## Updates

- **Overall Project progress is 38.4% complete.**
- Construction Stage 1, Phases 1 & 2 continues:
  - Work on 5 bridges throughout the project.
  - Construction of approximately 15 Retaining Walls on-going throughout the project.
  - On-going Drainage, Electrical, Barrier, and Signage work in the Median.
  - Lean Concrete Base (LCB) placement and Jointed Plain Concrete Paving (JPCP) in the median.
- Preparations for the first 30-day ramp closure at Calgrove Blvd. which is planned for the coming months.
- Project Team continues to coordinate with various stakeholders.

## Equity

- This project is not located within or adjacent to Equity Focus Communities.



On-going work at Retaining Wall 2577



Jointed Plain Concrete Paving in Median







# Projects without Life of Project (LOP) Budget

## Engineering Projects



- **105 Express Lanes**
- **G Line BRT Improvements Project**
- **East San Fernando Valley Transit Corridor**
- **North Hollywood to Pasadena BRT Project**



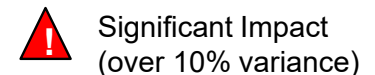
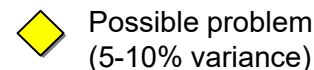
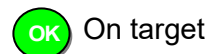
# 105 Express Lanes

BUDGET	Approved Budget to Date			Previous Period	Current Forecast
	Pre-Construction	\$119 M		\$119 M	\$119 M
	Project	N/A		\$1B - \$1.44B	\$1B - \$1.44B
	Variance from Approved Pre-Construction Budget:			\$0M (0%)	\$0 M (0%) 
	Variance from Approved LOP:			N/A	N/A 
	Variance from Revised Budget:				\$0M

The Revised Forecast is derived from the ongoing Project estimate, which is in progress following the recent finalization of OPCC for Segment 1 and a more precise estimate for Segments 2 & 3 by CMGC.

SCHEDULE	Approved Rebaseline		Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast
	N/A	N/A	Spring 2028*	Spring 2028* 
	Variance from Original:		+0d (0%)	+0d (0%) 
Variance from Revised Schedule:		N/A	N/A	

\*Note: Spring of 2028 operation is for Segment 1. Segment 2/3 currently is forecasting Spring of 2029





# 105 Express Lanes

## Safety

- Project Construction Hours: 0; Recordable Injury Rate: N/A vs. The National Average: 2.4.

## Updates

**Design is 80% complete.**

### Segment 1

- 100% Opinion of Probable Construction Cost (OPCC) was submitted. Agreed-to-Price achieved in December 2023
- Sub-contractor bid packages are released. Final pricing and Segment 1 LOP is expected to go to the Board in October 2024
- Equity Assessment is in progress; seven roundtable meetings held to date with Community Based Organizations
- Receipt of State's funding allocation of \$150M from California Transportation Commission (CTC) in May 2024

### Segment 2 and 3

- 95% design is in progress and 100% design will be complete by late summer 2025
- 65% OPCC has been submitted and is under evaluation
- Value engineering is underway to reduce cost. Proposed value engineering elements is under review by Caltrans
- Segment 3 design is coordinating with Southeast Gateway Line project

## Roadside Toll Collection System (RTCS)

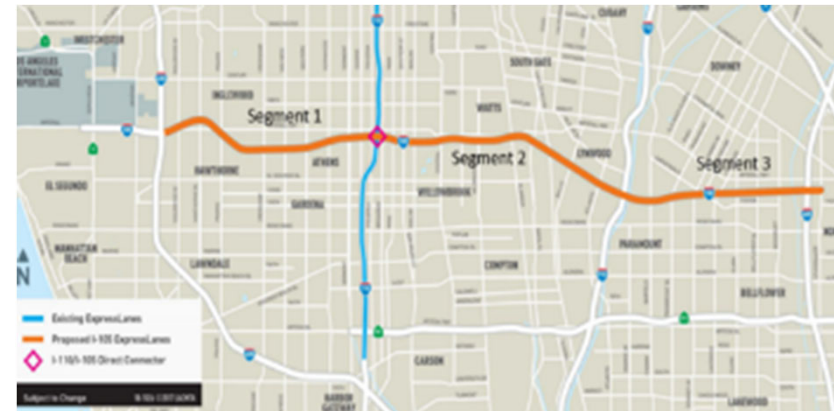
- Started Milestone A-3: Requirements Traceability Matrix Approval
- Completion of initial drafts Roadside System Detailed Design Documents
- Continued progress on RTCS Infrastructure Design Document

## Equity

- 92% of the project is within or adjacent to Equity Focus Communities.



Traffic on 105 Freeway Eastbound






The Project Map





July 2024 Construction Committee

# G Line BRT Improvements

BUDGET	Approved Budget to Date			Previous Period	Current Forecast
	Pre-Construction	\$149.7M*		\$149.7M	\$149.7M
	Project	N/A		\$488.1-511M	\$488.1-511M**
	Variance from Approved Pre-Construction Budget:			\$0M (0%)	\$0M (0%) 
	Variance from Approved LOP:			N/A	N/A 
	Variance from Revised Budget:				\$0M 

\*Approved Budget only includes the Pre-Construction Budget. The project will request LOP budget prior to PDB Contract Phase 2 award. \*\*Based on implementing value engineering and cost reduction measures shared at the November 2023 Construction Committee Meeting.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast
	N/A	N/A	December 2026***	December 2026***
	Variance from Original:		+0d (0%)	+0d (0%) 
	Variance from Revised Schedule:			N/A 

\*\*\*Current Forecast is Phase 2 Substantial Completion milestone, Phase 2 baseline schedule is not yet approved.





# G Line BRT Improvements

## Safety

Project Construction Hours: 0; Recordable Injury Rate: N/A vs. National Average: 2.4.

## Updates

- **Progressive Design Build Contract**
  - Continue to pursue scope refinements discussed at November Board to address affordability issues
  - Ongoing outreach to communicate project status and scope refinements, including in-person and virtual Community Meetings in May
  - 100% Van Nuys and Bike Path Improvements are underway and 60% Sepulveda design is under review.
  - Safe Clean Water Program voted to remove G Line Stormwater Capture scope from the Program.
  - California Transportation Commission (CTC) approved Scope Amendment based on scope refinements with approximate \$11M grant adjustment
  - Advancing Gated Intersections Alternative including gates at 13 intersections and traffic signal reservicing at remaining crossings
  - Pursuing Early Work Packages (EWPs) for 85-100% design and pilot gate
- **Utility Owner-Performed Advanced Utility Relocation (AURs)**
  - Sepulveda – removal of poles and overhead wires pending PDB contractor installation of new power service
  - Vesper – DWP relocation complete, Charter cutover pending
  - Sylmar – AUR completed. Department of Water and Power (DWP) undergrounding complete. Charter vacated.
- **Property Acquisitions**
  - Value Engineering Alternatives eliminated five of eight acquisitions
  - Metro has obtained possession of two of three required properties

## Equity

- 15 of 17 stations (88%) are within or adjacent to Equity Focus Communities.





May Community Meeting




July 2024 Construction Committee

# East San Fernando Valley Transit Corridor

BUDGET	Approved Budget to Date*			Previous Period	Current Forecast
	Pre-Construction	\$496.9M		\$496.9M	\$496.9M
	Project	N/A		\$3.57B	\$3.57B
	Variance from Approved Pre-Construction Budget:			\$0M (0%)	\$0M (0%) 
	Variance from Approved LOP:			N/A	N/A
	Variance from Revised Budget:				\$0M 

\*The Board has only approved a Pre-Construction Budget to date.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast**
	N/A	N/A	September 2031	September 2031
	Variance from Original:			+0d (0%)
Variance from Revised Schedule:				N/A 

\*\*Current schedule forecast reflects Metro's Internal Schedule. The actual Baseline schedule will be negotiated with Progressive Design Builder as part of the Phase 2 Supplement.





# East San Fernando Valley Transit Corridor

## Safety

C1220 Contract Hours Worked: 33,954; Recordable Injury Rate: 0 vs. National Average: 3.0

## Updates

### FTA Coordination

- Final documentation required to address requirements in LOI sent to FTA on May 10, 2024
- FTA/PMOC completing evaluation, target FFGA Sept 2024

### Progressive Design-Build Contract

- Ongoing negotiations for Early Work Packages (EWP)
- EWP-01 – Design Studies – ROM \$4.8M - target July Award
- EWP-02 – Initial Integrated Project Mgmt. Office – ROM \$8.8M - target July Award
- EWP-03 – Utility Adjustment Packages 4 & 6 – target Sept Award
- EWP-04 – Final Design – target July Award

### Real Estate

- Offers have been made on 11 properties.
- 8 properties have accepted offers
- Condemnation process will start this summer for parcels which did not accept offers.

### Construction - Advance Utility Adjustment #1 (C1220)

- Construction complete, DWP initiated intercept work May 2024.

### Light Rail Vehicle (LRV) Procurement

- NTP was issued to Hatch Associates Consulting, Inc. on May 28, 2024 to serve as the Vehicle Specialist Consultant
- LRV Manufacturing Contract anticipated to be advertised in early 2025.



### Equity

- 100% of the project is within or adjacent to Equity Focus Communities.





July 2024 Construction Committee

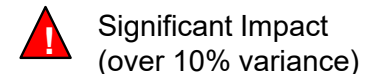
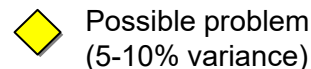
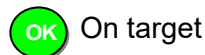
# North Hollywood to Pasadena BRT

BUDGET	Approved Budget to Date*			Previous Period	Current Forecast
	Project	N/A		\$263M-386M	\$308-515M
	Variance from Approved LOP:			N/A	N/A 
	Variance from Revised Budget:				N/A 

\* Project will work within the annual budget constraints until Life of project (LOP) is established. The goal is to use CM/GC process to reduce forecasted project costs.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast**
	N/A	N/A	Summer 2027	Summer 2027
	Variance from Original:		N/A	N/A 
Variance from Revised Schedule:			N/A 	

\*\* Current Forecast is Metro's Internal Schedule, Baseline schedule is not yet approved at time of update.





# North Hollywood to Pasadena BRT

## Safety

- Project Construction Hours: 0; Recordable Injury Rate: N/A vs. National Average: 2.4.

## Updates

### Design is 25% complete.

- Environmental Impact Report (EIR) Approved April 2022
- Program Management Support Service (PMSS) awarded in March 2024
- Architect & Engineering (A&E) contract awarded in May 2024
- Construction Manager/General Contractor (CM/GC) Proposals received in April and are being evaluated

## Equity

- 60% of the project is within or adjacent to Equity Focus Communities



*Project Map*



*View of Vineland Ave / Lankershim Blvd*





# Operational Projects



- **North San Fernando Transit Corridor Project**



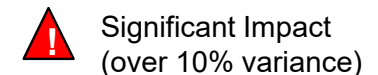
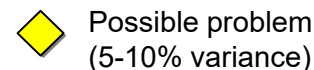
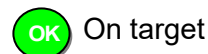


# NSFV Transit Corridor Project

BUDGET				
		Approved LOP	Previous Period	Current Forecast
		\$180M	\$180M	\$180M
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
Variance from Revised Budget:			\$0 	

SCHEDULE			Substantial Completion	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
	Summer 2025	N/A	Summer 2026	Summer 2026
	Variance from Original:		+0d (0%)	+0d (0%) 
Variance from Revised Schedule:			N/A 	

\*Project elements delivered incrementally. Likely, last elements to be completed are expected to be ZEB and charging



# NSFV Transit Corridor Project

## Safety

Project Construction Hours: 0; Recordable Injury Rate: N/A vs. The National Average: 2.4.

## Updates

- **Roscoe BI Bus Priority Lanes**
  - 100% design approved by City
  - Installation by City of LA started June 24 for completion in Q2 FY25
- **All Door Boarding**
  - 200 pilot BMVs testing in Q3-Q4 FY24
  - 2,900 BMVs for delivery and install by end of FY25 (incl. 330 for NSFV)
- **Bus Bulbs (82 locations)**
  - Contract Modification for design services to Board for approval Sep 2024.
  - Design to begin in Q2 FY25
- **5 Key Transfer Locations**
  - Contractor collected data in Q4 FY24
  - Design to be finalized and construction to begin in FY25
- **Bus Shelters**
  - Construction and installation agreement for 393 shelters executed 10/2023
  - Installations expected to begin by Q2 FY25 by StreetsLA
- **Transit Signal Priority (7 Corridors)**
  - 35% design
  - Installation to begin Q2 FY25
  - Completion by Q4 FY25
- **75 Battery Electric Buses + Charging**
  - Included under current ZEB procurement issued April 20, 2024. Award Q4 FY25
- **Service Frequency Improvements on Lines 152 (Roscoe) and 166 (Nordhoff)**
  - Implementation of first phase June 2024. More improvements by end of FY25
- **Equity**
  - 42% of the project improvements are located within or adjacent to Equity Focus Communities



*Rendering of an improved stop on Nordhoff/Lindley*

