



Metro

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

## Board Report

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**File #:** 2022-0818, **File Type:** Informational Report

**Agenda Number:** 9.

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**MEASURE M INDEPENDENT TAXPAYERS OVERSIGHT COMMITTEE  
DECEMBER 15, 2022**

**SUBJECT: ORAL REPORT ON TRANSIT AND HIGHWAY PROJECTS**

**ACTION: ORAL REPORT**

**RECOMMENDATION**

RECEIVE oral report on Transit and Highway Projects.

# Measure M Independent Taxpayer Oversight Committee

## Highway Project Updates

Nelli Derderian, Director Finance & Administration

December 15, 2022

# SR-71 Gap from I-10 to Rio Rancho Road (Southern Segment)



Current Phase	Phase Budget	Phase Spent To Date
Construction	\$148.10	\$35.68

## Purpose and Scope

- Add HOV lane to current highway converting to freeway
- Southern Segment between Mission Blvd & San Bernardino County Line
- Managed by Caltrans

## Multimodal Elements

- N/A

## Status

- Construction work started in May 2021 and is projected to finish in Summer 2024; 28% complete
- Planned utility relocation by third party utility companies may be delayed
- Soft costs spent to date are from TCRF & other Federal funds



## Challenges

- Relocation of unforeseen utilities has already caused delays
- Right of Way encampment removal

# SR-71 Gap from I-10 to Rio Rancho Road (Northern Segment)



Current Phase	Phase Budget	Phase Spent To Date
Design	\$40.40	\$22.91

## Purpose and Scope

- Add HOV lane to current highway converting to freeway
- Northern Segment from I-10 to Mission Blvd

## Multimodal Elements

- Upgrade current pedestrian bridge to comply with current ADA requirements

## Status

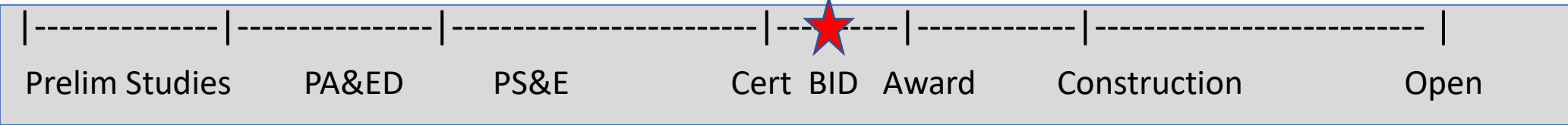
- PS&E schedule pending resolution of project funding shortfall
- Caltrans has identified significant cost increases and potential schedule delays in the Northern Segment
- Metro is coordinating with Caltrans and the San Gabriel Valley Council of Governments to identify potential solutions to complete the project
- Soft costs spent to date are from TCRF & other Federal funds



## Challenges

- Utility & railroad coordination causing schedule delays
- Funding shortfall of up to \$99 million (\$10M in Design and \$89M in Construction)

# SR-57/SR-60 Interchange Improvements



### Purpose and Scope

- Major operational/capacity/safety improvements including grade-separation of the two freeways and new ramps at Grand Ave/Eastbound SR-60
- Construction will be led by the San Gabriel Valley COG with Metro and Caltrans oversight; expected to start in the beginning of 2023

### Multimodal Elements

- Project includes improvements to local bridge, sidewalk and bicycle facilities

### Status

- Caltrans approved encroachment permit June 9, 2022; CTC approved allocation of \$217.9M June 30, 2022; Construction advertisement initiated on October 18, 2022
- Golf course mitigation work, early action activity is progressing as scheduled

### Challenges

- Volatility of material costs may result in higher construction costs
- Required to execute Term Sheet obligation of federal funds by contract award date
- Closing negotiations with two property owners on monetary value of Right of Way impact



# I-405 South Bay Curve Improvements

## Southbound Auxiliary Lanes; I-105 to Artesia



### Purpose and Scope

- Improve safety and operations by reducing freeway conflicts at high congestion on/off ramp locations
- Northbound and Southbound Auxiliary lane improvements between freeway on/off ramps within Caltrans Right of Way

### Multimodal Elements

- High visibility crosswalks
- Pedestrian flashing beacons
- Pedestrian and cyclist signage

### Status

- Environmental phase completed in 2020
- Design phase started in March 2022
- 35% design plans submitted to Caltrans in August 2022



### Challenges

- Leveraging local Measure R/M funds to fully fund construction
- All expenditures spent to date are from Measure R; Measure M funds not yet expended

# I-405 South Bay Curve Improvements

## I-110 to Wilmington – Auxiliary Lanes



Prelim Studies

PA&ED

PS&E

Cert BID

Award

Construction

Open

### Purpose and Scope

- Improve freeway operations and safety
- Spans across both directions of I-405 through construction of auxiliary lanes between on- and off-ramps to improve merging and diverging vehicle movements

### Status

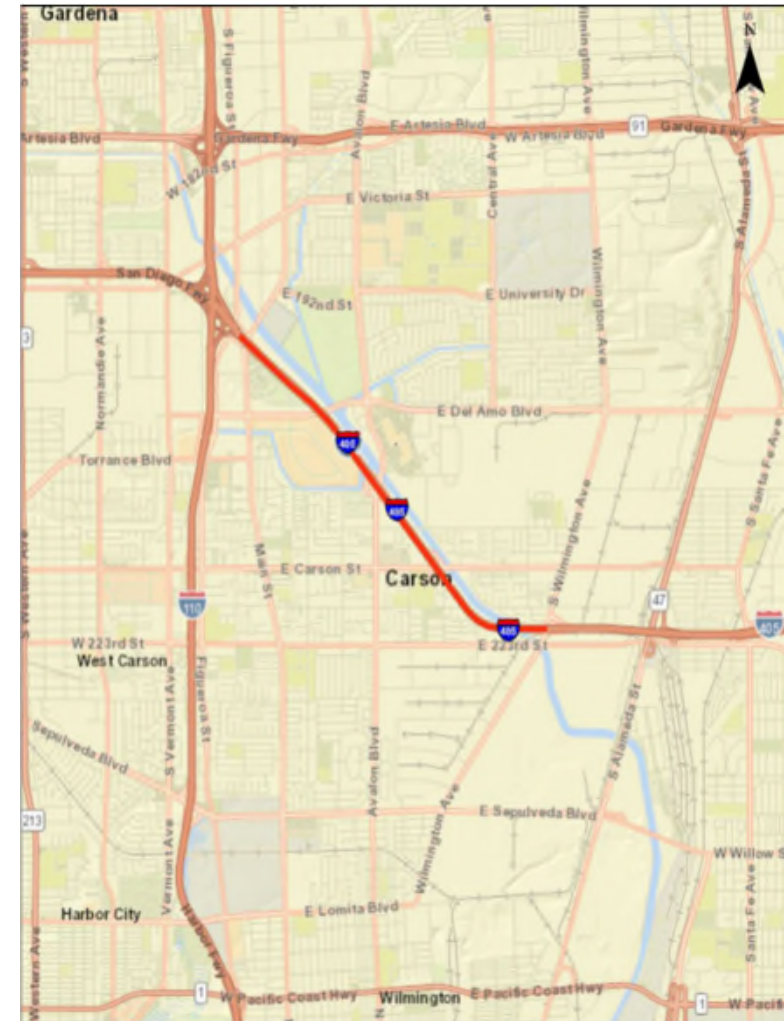
- Project Study Report completed November 2020
- Environmental phase projected to start mid-2023
- Project being scoped in collaboration with City of Carson and Caltrans in accordance with Objectives for Multi-Modal Highway Investment

### Multimodal Elements

- Project may include improvements to pedestrian/bicycle facilities and transit stops

### Challenges

- VMT analysis and potential mitigation
- Leveraging local Measure R/M funds to fully fund construction



# Countywide Planning Major Project Updates

## Measure M Oversight Committee (Dec. 15, 2022)



### > Major Pillar Projects

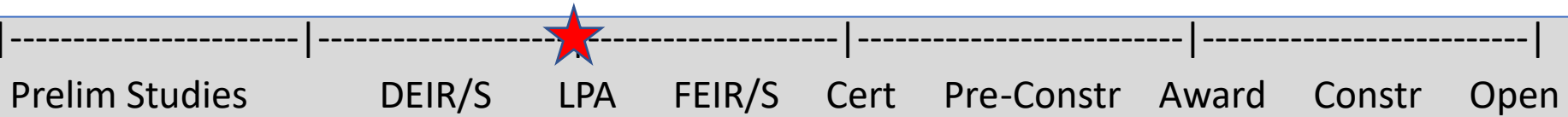
- A) West Santa Ana Branch
- B) Eastside Transit Corridor Phase 2
- C) Sepulveda Transit Corridor
- D) C (Green) Line Extension to Torrance

### > Other Projects in Planning and Development

- Vermont Transit Corridor
- North Hollywood to Pasadena
- N. San Fernando Valley BRT



# West Santa Ana Branch Transit Corridor



## Current Phase

EIR/EIS

## Most Recent Cost Estimate

\$7.1B (YOES) - IOS

## Recent Activities

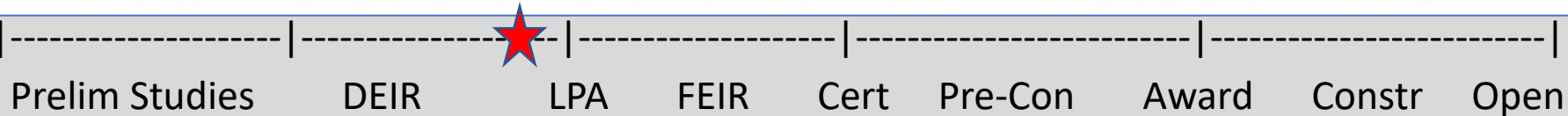
- **September 2022:** Board received an update on environmental status, project risks, advanced engineering work and cost estimates
- Continuing to meet with cities and key agencies/stakeholders (e.g., Caltrans, CPUC and USACE) to address comments including cut & cover analysis
- 9 MCAs executed and 1 remaining (Cerritos)

## Next Actions

- Confirm Project definition (critical path)



# Eastside Transit Corridor Phase 2



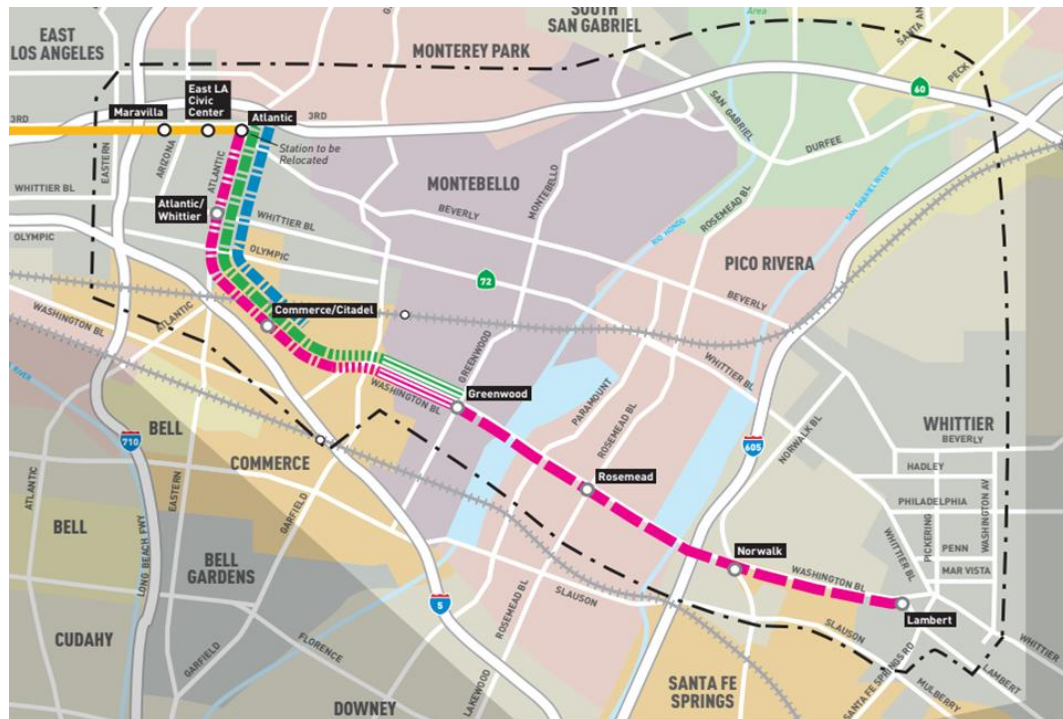
## Current Phase      Most Recent Cost Estimate

EIR/EIS

\$7.9B (YOES) – IOS

## Recent Activities

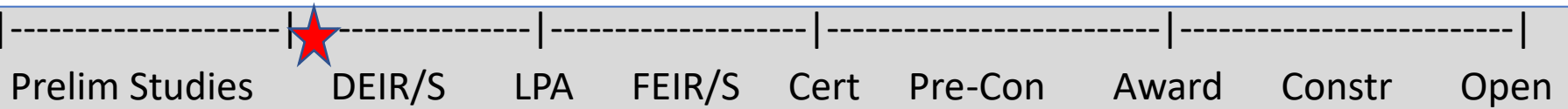
- Recirculated Draft EIR was released June 30th with a 60-day comment period ending on August 29, 2022
- Four (4) Public Hearings
  - East Los Angeles – July 21 (in-person)
  - Montebello – July 30 (in-person)
  - Virtual – Aug. 11
  - Whittier – Aug. 17 (in-person)



## Next Actions

- Return to the Board for contract modifications for professional service to advance engineering activities for alternate project delivery and reinitiate National Environmental Policy Act (NEPA) study
- Board to select a Locally Preferred Alternative (LPA) Winter 2022/23

# Sepulveda Transit Corridor



Current Phase	Most Recent Cost Estimate
EIR/EIS	\$5.7B (2015\$)

## Recent Activities

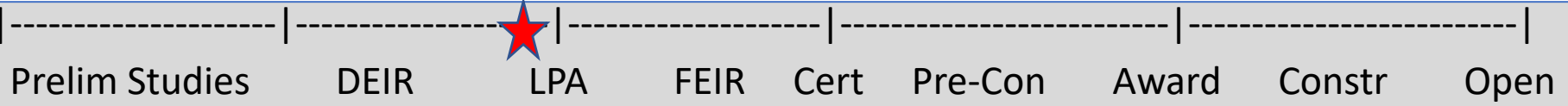
- Ongoing engagement with third party agencies, including FTA and Caltrans
- Project coordination with I-405 Express Lanes Project
- Coordination of alternatives designs and environmental review

## Next Actions

- Continue to develop designs and prepare for environmental technical studies
- Continue preparation for winter community update meetings



# C (Green) Line Extension to Torrance



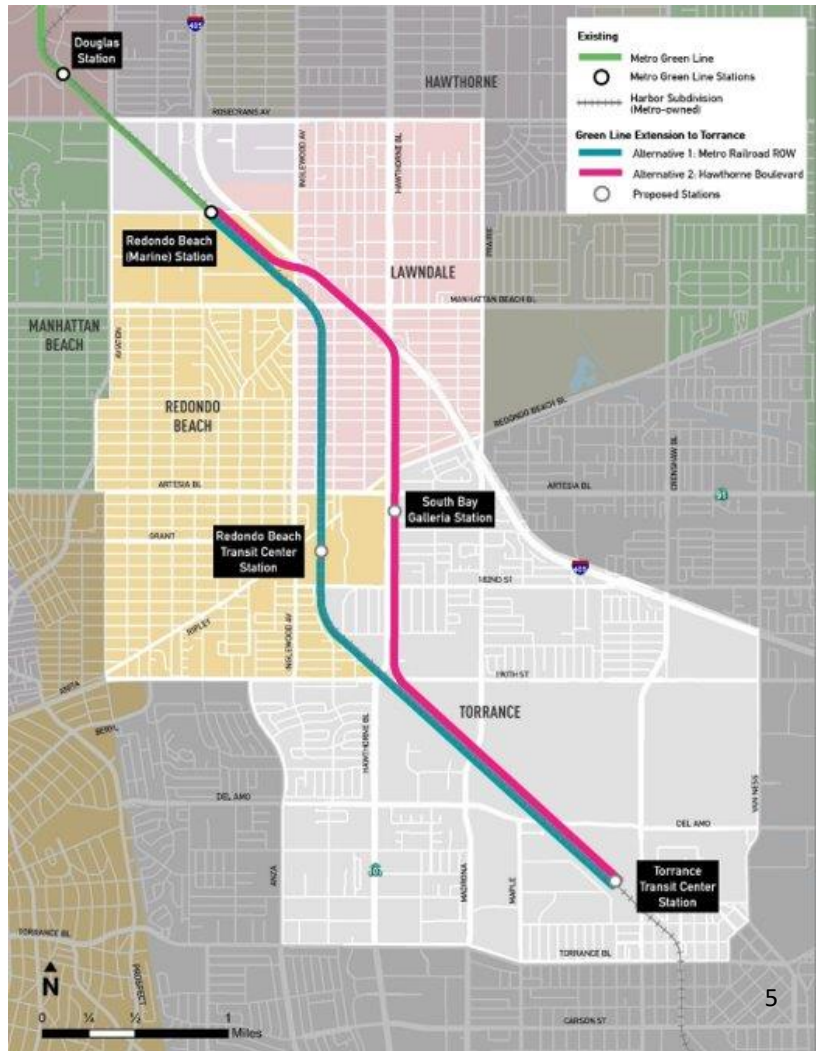
Current Phase	Most Recent Cost Estimate
EIR/EIS	\$891M (2015\$)

## Recent Activities

- Finalizing conceptual engineering plans and preparing environmental analysis
- Summarizing input gathered from community events
- Continuing coordination with community groups, cities, BNSF, Caltrans, utilities, and property owners

## Next Actions

- Release Draft EIR: Winter 2023
- Board selection of Locally Preferred Alternative (LPA): Spring 2023



# North Hollywood to Pasadena BRT



Current Phase	Most Recent Cost Estimate
Pre-Construction	\$263M - \$386M (YOES) – Capital

## Recent Activities

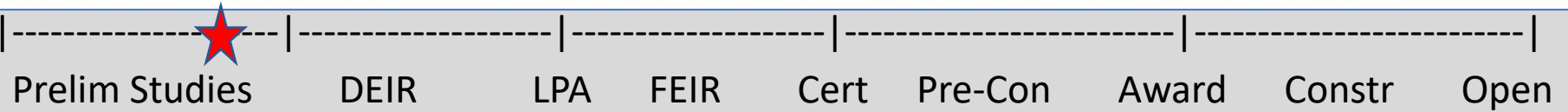
- Preliminary engineering underway
- Preparing for First/Last Mile work
- Advancing project design (e.g., bus lanes, stations, transit signal priority, etc.)



## Next Actions

- Seek Board approval of a contract modification to conduct additional technical work and a First/Last Mile Plan (January 2023, anticipated)
- Prepare final design procurement for anticipated release in early 2023

# North San Fernando Valley BRT Improvements



## Current Phase

## Most Recent Cost Estimate

Preliminary Studies

\$180M (2015\$)

## Recent Activities

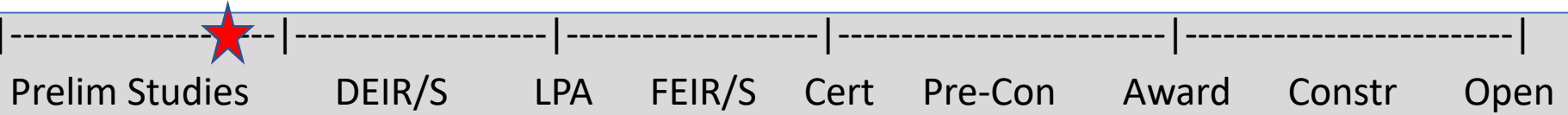
- Continue key stakeholder engagement
- September 29, 2022: Community meeting (virtual) to present Project Business Case and Racial Equity Analysis per SB288 statutory exemption requirements
- Continue evaluation of proposed BRT Network Improvements in coordination with NextGen

## Next Actions

- October 2022: CSUN student engagement and SFVCOG briefing meeting
- November/December 2022: Board action on recommended BRT network improvements and authorization to file a Notice of Exemption



# Vermont Transit Corridor



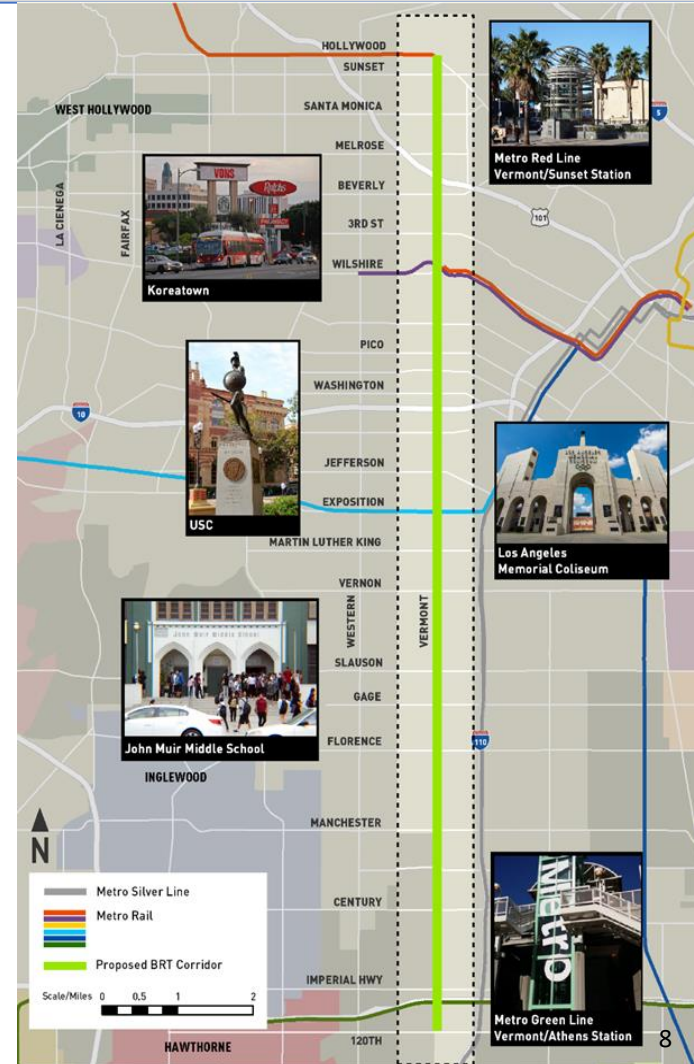
Current Phase	Most Recent Cost Estimate
Preliminary Studies	\$425M (2015\$)

## Recent Activities

- Continue community and stakeholder engagement
- September 2022: Metro motion to advance a three-pronged strategy for immediate-, mid- and long-term improvements

## Next Actions

- Issue RFP for planning & environmental studies informed by CPP feedback and September 2022 Board Motion
- Coordinate with Service Planning on potential near-term, quick build improvements for local bus service



# Measure M Expenditure Plan

## Groundbreaking to Opening Dates

Measure M  
Opening Dates  
3-Year Window

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049																			
NoHo to Pasadena																																																
North SFV BRT																																																
Planning		LA River Path																																														
Planning		West Santa Ana Branch (Phase 1)								WSAB (Phase 1+Slauson) Approved by Board																																						
Planning		Vermont Corridor																																														
Planning		Green Line Extension to Torrance																																														
Planning		Sepulveda Transit Corridor (Phase 1)																																														
Planning		Eastside Transit Corridor Phase 2																																														
Planning		West Santa Ana Branch (Phase 2) - Slauson to LAUS																																														
Planning		Crenshaw North																																														
																								Sepulveda Transit Corridor (Phase 2)																								

FY 2022 - 2024
FY 2023 - 2025
FY 2025 - 2027
FY 2028 - 2030
FY 2028 - 2030
FY 2030 - 2032
FY 2033 - 2035
FY 2035 - 2037
FY 2041 - 2043
FY 2047 - 2049
FY 2057 - 2059



# Program Management Major Project Status Report

Presented By

**Bryan Pennington**

Chief Program Management Officer

# WESTSIDE PURPLE LINE EXTENSION – SECTION 3

## BUDGET

FFGA	Approved LOP*	Previous Period**	Current Forecast**
\$3,599M	\$3,224M	\$3,224M	\$3,224M
Variance from Approved LOP:		\$0M (0%)	\$0M (0%) <span style="color: green;">OK</span>
Variance from Revised Budget:			\$0 <span style="color: green;">OK</span>

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

\*\*Excludes finance costs

## SCHEDULE

Original	Approved Rebaseline	(REVENUE OPERATION) Previous Period	Current Forecast*
Mar. 2027	N/A	Spring 2027	Spring 2027
Variance from Original:		+0d (0%)	+0d (0%) <span style="color: green;">OK</span>
Variance from Revised Schedule:			0d <span style="color: green;">OK</span>

\*Current Forecast is Contractor's March Schedule update

\*\*Approval in process

- Safety:** Project Hours: 2,109,067; Recordable Injury Rate: 1.42 vs. The National Average: 2.4
  - C1151: Project Hours: 1,099,478; Recordable Injury Rate: 2.73
  - C1152: Project Hours: 1,009,589; Recordable Injury Rate: 0.0
- Overall Project Progress is 42% complete
- Final design progress is 97% complete
- Westwood/UCLA Station**
  - UCLA station roadway deck panels and beams with associated excavation started on 8/26/22 in Wilshire Blvd and is 5% complete.
- Westwood/VA Station**
  - VA steam tunnel relocation work continues: completed heavy civil work for relocation; structure in place to support the relocated steam tunnel for upcoming station excavation; Mechanical, Electrical, and Plumbing fit-out in progress; and construction of the redundant steam and condensate lines is ongoing. SCE and VA 12" water line relocations completed.
- Tunneling**
  - Both tunnel boring machines (TBMs) "Aura" and "Iris" continue mining east of Westwood/UCLA station. Progress as of September 2, 2022, is as follows:
    - Iris "BR TBM" (westbound subway tunnel) – Reach 6: 5,362 ft (56%), overall: 9,337 ft (69%)
    - Aura "BL TBM" (eastbound subway tunnel) – Reach 6: 4,278 ft. (45%), overall: 8,247 ft. (60%)
  - Tunneling progress is slower than contractor's baseline. Contractor to mitigate schedule delay.
  - Equity:** 1 of 2 stations (50%) are within or adjacent to Equity Focus Communities.



UCLA Station: Installing Structural Steel Beams for Temporary Decking



VA Steam Tunnel: Installing Redundant System (Condensate and Steam Line)

October 2022



On target



Possible problem  
(5-10% variance)



Significant Impact  
(over 10% variance)



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# GOLD LINE FOOTHILL EXTENSION PHASE 2B

BUDGET	Approved LOP*	Previous Period	Current Forecast
TOTAL COST	\$1,532.8B		\$1,532.8B
Variance from Approved LOP:		\$0 (%)	\$0(%) <span style="color: green;">OK</span>
Variance from Revised Budget:		\$0	\$0 <span style="color: green;">OK</span>

SCHEDULE	Approved Rebaseline	(Substantial Completion) Previous Period	Current Forecast*
Original			
January 2025			December 2024
Variance from Original:		+0d (0%)	+353 (-18%) <span style="color: green;">OK</span>
Variance from Revised Schedule:			TBD <span style="color: green;">OK</span>

- Safety:** Project Hours: 1,176,236 Recordable Injury Rate: 0.51 vs. The National Average: 2.4

- Overall Project progress is 59% complete.**

Completed construction at Route 66 LRT bridge and LRT bridge structures at Little Dalton Wash, San Dimas Wash, Puddingstone Channel, Marshall Creek, and Live Oak Channel

- Metro Gold Line Foothill Extension Authority**

The Contractor Kiewit Parsons Joint Venture (KPJV) have completed work at more than half of the grade crossings, completion on the freight track relocation and have started work on all bridges.

The design of the 9 mile, 4 Station extension is substantially complete.

First of the four new light rail stations is under construction at Glendora.

CPUC has approved 49 of 49 grade crossings to date

- Construction Continues at:**

Glendora, San Dimas, La Verne and Pomona Stations

Foothill/Grand Avenue, Foothill/Grand Ave and Lone Hill LRT Bridges

Installed Monte Vista TPSS

Construction of SCRRRA Maintenance-of-way building

210 and 57 Freeway anchor and support walls

construction of MSE retaining walls throughout the project

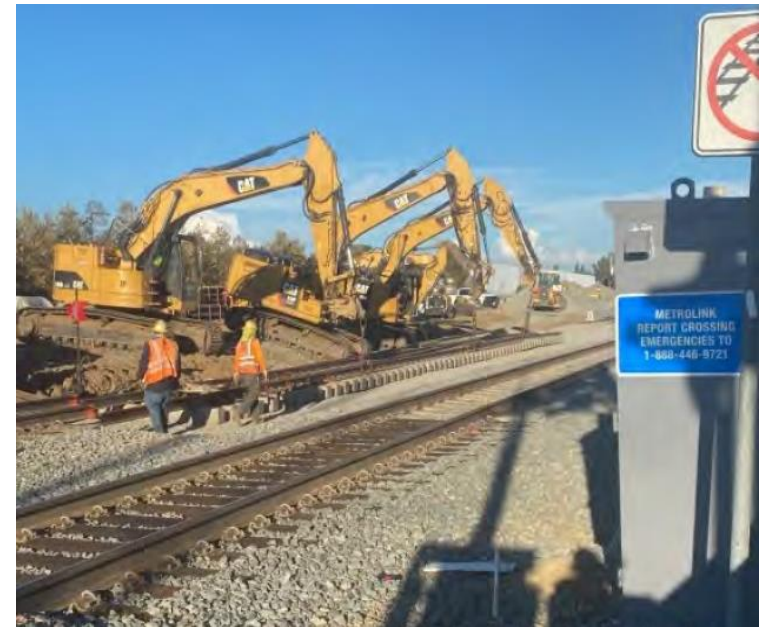
Construction of 210 and 57 Freeway anchor and support walls

Light rail alignment track construction

LRT train control installation

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

Garey East – Metrolink Turnout installed



October 2022

OK On target

◆ Possible problem (5-10% variance)

▲ Significant Impact (over 10% variance)



# AIRPORT METRO CONNECTOR (AMC) PROJECT

BUDGET	Approved LOP*	Previous Period	Current Forecast
TOTAL COST	\$898.6M	\$898.6M	\$898.6M
Variance from Approved LOP:		\$0M (0%)	\$0M (0%) <span>OK</span>
Variance from Revised Budget:			\$0 <span>OK</span>

\*Approved April 2021 Board

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

\*Current Forecast is Metro's August 2022 Schedule update

**Safety:** Project Hours: 129,560; Recordable Injury Rate: 1.54 vs. The National Average: 2.4

**Progress:**

- Early Works Phase construction is 95.6% complete and is in close-out phase.
- North Turn back and reconfiguration with turnback facility is completed and undergoing pre-revenue testing.
- Primary Station Construction (21.4% ) continues with installation of final structural footings and start of station platform concrete, underground utilities, delivery and preparation for steel erection, and procurement of long-lead material. Work within the Light Rail Transit (LRT) area has been expedited.
- **Equity:** 100% of the project is located within or adjacent to Equity Focus Communities.



October 2022

OK On target    
 ◆ Possible problem (5-10% variance)    
 ▲ Significant Impact (over 10% variance)



# I-5 NORTH COUNTY ENHANCEMENTS

BUDGET	Approved LOP*	Previous Period	Current Forecast
TOTAL COST	\$679.3M	\$679.3M	\$679.3M
Variance from Approved LOP:		\$0M (0%)	\$0M (0%) <span>OK</span>
Variance from Revised Budget:			\$0 <span>OK</span>

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

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

- **Safety:** Project Hours: 102,930; Recordable Injury Rate: 0.00 vs. The National Average: 2.4
- **Overall Project progress is 15% complete**
- Construction Stage 1, Phase 1 & 2:
  - Partial Demolition/Pile Driving/Footing and Abutment/Bent Construction on several bridges
  - Retaining Walls, Drainage, Barrier/Roadway Demo, Excavation, and Base Placement
- Project Team continues to coordinate with stakeholders: Caltrans, Federal Highway Administration (FHWA), City of Santa Clarita, Los Angeles County, CHP, NPS, CDFW, and other local stakeholders.
- Project is preparing for single-direction freeway closures in November to support Weldon Canyon bridge construction activities with the community and above stakeholders.
- **Equity:** This project is not located within or adjacent to Equity Focus Communities.



**October 2022** OK On target Possible problem (5-10% variance) Significant Impact (over 10% variance)

# I-105 EXPRESS LANE PROJECT

BUDGET	Approved LOP (pre-Con.)	Previous Period	Current Forecast	
TOTAL COST	\$119.4 M	N/A	\$780M	
Variance from Approved LOP:		\$0M (0%)	\$0M (0%)	OK
Variance from Revised Budget:			\$0	OK

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

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

Progress:

- The Phase 1 (Pre-Construction) CM/GC, Roadside Toll Collection System (RTCS) and PMSS contracts were approved by the Board in August 2022. Phase A - Pre-construction LOP established.
- Limited Notice to Proceed (LNTF) was issued to CMGC Contractor on October 25<sup>th</sup>. The full NTP is anticipated in November.
- Segment 1 of the project (between I-405 and Central Ave.), 95% Design is in progress.
- Segment 3 of the project (between 710 and Studebaker Rd.), 35% Design was submitted to Caltrans in October. Segment 2 submittal is upcoming in December 2022.
- Kick-off meeting with the PMSS Contractor was held on October 26<sup>th</sup>.



Traffic on 105 Freeway Westbound



The Project Map

October 2022



On target



Possible problem (5-10% variance)



Significant Impact (over 10% variance)



Metro 6

# G LINE BRT IMPROVEMENTS PROJECT

BUDGET	Approved LOP	Previous Period	Current Forecast
TOTAL COST	\$149.7	N/A	\$392 M - \$476 M
Variance from Approved LOP:		\$0M (0%)	\$0M (0%) <span style="color: green;">OK</span>
Variance from Revised Budget:			\$0 <span style="color: green;">OK</span>

*\*Project will work within the annual budget constraints until LOP is established*

SCHEDULE	Approved Rebaseline	(Revenue Operation) Previous Period	Current Forecast*
Original	N/A	N/A	Dec 2026
Variance from Original:		+0d (0%)	+0 d (0%) <span style="color: green;">OK</span>
Variance from Revised Schedule:			0d <span style="color: green;">OK</span>

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

- **Progressive Design Build Contract:**
  - Progressive Design Build (PDB) Contract approved by Board in August 2022. Phase A - Pre-construction LOP established.
- **Utility Owner-performed AURs:**
  - Sepulveda – removal of poles and overhead wires pending PDB contractor installation of new power service.
  - Vesper – DWP crews completed cable pulling in August, Charter tentative construction start in October.
  - Sylmar – work complete within City ROW, DWP license agreement executed, remaining work to commence in October.
- **Property Acquisitions underway:**
  - Eight acquisitions underway, all-in negotiation or agreement phase.
  - Offers presented to owners between March 31, 2022 and May 24, 2022.
  - Board adopted Resolution of Necessity for all properties in August 2022.
- **Equity:** 11 of 17 stations (65%) are within or adjacent to Equity Focus Communities.



DWP Overhead Construction at Vesper



DWP Overhead Construction at Vesper

**October 2022**



On target



Possible problem (5-10% variance)



Significant Impact (over 10% variance)



**Metro 7**