



Metro

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

## Board Report

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**File #:** 2023-0293, **File Type:** Oral Report / Presentation

**Agenda Number:** 6.

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### MEASURE M INDEPENDENT TAXPAYERS OVERSIGHT COMMITTEE JUNE 07, 2023

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

RECEIVE oral report on Transit and Highway Projects.

#### **ATTACHMENTS**

Attachment A - Program Management Update

Attachment B - Transit Planning Update

Attachment C - Complete Streets & Highways Update

# **Program Management**

## **Quarterly Major Project Status Report**



**Julie Owen**

Senior Executive Officer, Project Management Oversight



**Measure M Committee**

June 2023

# Gold Line Foothill Extension Phase 2B

BUDGET				
		Approved LOP*	Previous Period	Current Forecast
		\$1,532.8 B	1,532.8 B	\$1,532.8 B
	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			Substantial Completion	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
	January 2025	N/A	Fall 2024	January 2025
	Variance from Original:		+0d (0%)	-2d (-.10%) 
	Variance from Revised Schedule:			TBD 

\* Current Forecast is Contractor's January 2023 Schedule Update.





# Gold Line Foothill Extension Phase 2B

## Safety

- Project Hours: 1,076,685 Recordable Injury Rate: .37 vs. the National Average: 2.4.

## Updates (Metro Gold Line Foothill Extension Authority)

- **Overall Project Progress is 67.5% complete.**  
Completed construction of Route 66, 210, and 57 freeway pier protection. Construction continues throughout the alignment on light rail tracks, OCS installation, LRT Train control installation, MSE retaining walls, sound wall fencing, and stations.
- The Contractor Kiewit Parsons Joint Venture (KPJV) completed work at 29 of 37 grade crossings Glendora to Pomona, finished the freight track relocation and completed the structure work on all 4 LRT bridges.  
Four new light rail stations are under construction.  
CPUC has approved all 49 grade crossings to date.
  - *Grade Crossings approval to Montclair finalized October 2020*
- **Construction Continues as follows:**
  - Glendora, San Dimas, La Verne, and Pomona Stations.
  - Foothill/Grand Ave and Lone Hill LRT Bridges direct track fixations
  - MSE retaining walls throughout the project
  - Light rail shoulder ballast distribution and alignment track
  - LRT train control installation
- The design of the 9-mile, 4 Station extension is progressing.



## Equity

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

Bonita / Cataract – Structure Track Direct fixation





# Westside Purple Line Extension – Section 3

BUDGET				
	FFGA	Approved LOP*	Previous Period**	Current Forecast**
	\$3,599 M	\$3,224 M	\$3,224 M	\$3,274 M
	Variance from Approved LOP:		\$0M (0%)	+\$50M (1.6%) 
	Variance from Revised Budget:			\$0 

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

\*\* Excludes finance costs. Current Forecast +\$50M LOP (Non-FFGA) primarily for VA Parking Structure and addition of hi-rail vehicle storage in the tail track area.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
	March 2027	N/A	Spring 2027	Fall 2027
	Variance from Original:		+0d (0%)	+181d (5.4%) 
	Variance from Revised Schedule:			TBD 

\* Contract schedule is forecasting a slippage to the contractual milestones.

The project team is identifying opportunities to mitigate and is monitoring potential impacts. Staff will provide periodic updates to the Board.





# Westside Purple Line Extension – Section 3

## Safety

Project Hours: 2,434,247; Recordable Injury Rate: 1.56 vs. The National Average: 2.4.

- C1151: Project Hours: 1,310,241; Recordable Injury Rate: 2.90.
- C1152: Project Hours: 1,124,006.; Recordable Injury Rate: 0.0.
- Updates

▪ Overall Project Progress is 46% complete.

▪ Final design progress is 97% complete.

## Tunneling

- Both Tunnel Boring Machines (TBMs) continue mining towards Constellation Station east of Century Park West towards the Westfield Mall. Progress as of March 3, 2023, is as follows:
- Iris “BR TBM” (westbound subway tunnel) – Reach 6: 8,729 ft. (91%), overall: 12,707 ft. (94%).
- Aura “BL TBM” (eastbound subway tunnel) – Reach 6: 8,578 ft. (89%), overall: 12,540 ft. (92%).

## Westwood/UCLA Station

- Excavation is approximately 16% complete and continues. At the main station entrance and station box, lookouts are being installed in preparation for Level 2 struts.

## Westwood/VA Station

- Excavation is approximately 17% complete and continues. Installation of struts continues. At Level 1, 53% of the struts are installed. At Level 2, 23% of the struts are installed.
- The VA steam tunnel relocation work continues; Mechanical, Electrical, and Plumbing fit-out inside the steam tunnel (75% complete).
- Backfilling around the steam tunnel vaults remains at 90%.

## Equity

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





Westwood/UCLA Station: Excavation underneath Wilshire Blvd





Westwood/VA Station: Excavating station for Level 2 Bracing



# Airport Metro Connector (AMC) Project

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*
	N/A	N/A	Fall 2024	Fall 2024
	Variance from Original:		+0d (0%)	+0d (0%) 
	Variance from Revised Schedule:			N/A 

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





# Airport Metro Connector (AMC) Project

## Safety

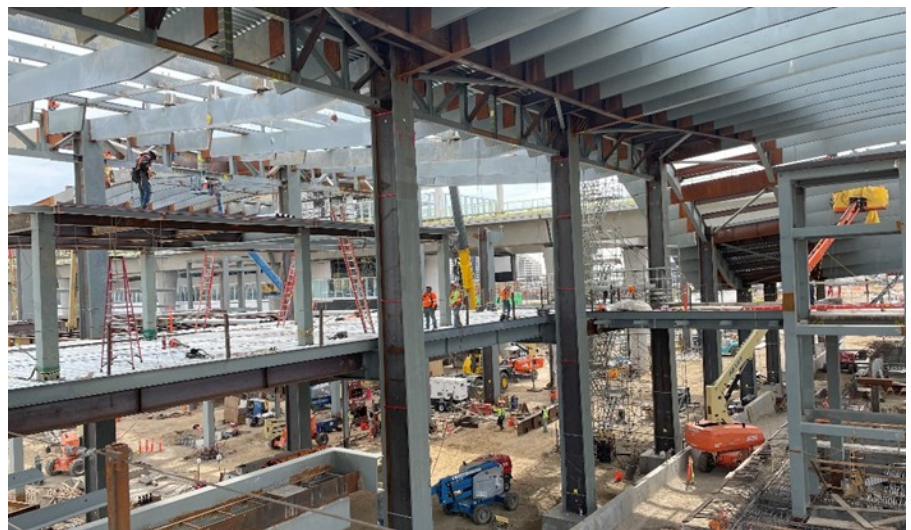
Project Hours: 280,039; Recordable Injury Rate: 2.14 vs.  
The National Average: 2.4.

## Updates

- **Overall project progress is 55% complete.**
- Primary Station Construction at 38% completion
  - Steel structure and metal decking at the Rail Platform is complete with steel work now focused on the main hub and bike hub areas.
  - Rail platform work continues with concrete and utility installations.
  - Light gauge roof framing has begun over the Rail Platform area.
  - LADWP underground infrastructure on Aviation Blvd related to AMC has begun.

## Equity

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





April 2023 Construction Committee



Los Angeles County Metropolitan Transportation Authority



# 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	Previous Period	Current Forecast**
	July 2016	N/A	Summer 2026	Summer 2026
	Variance from Original:		+0d (0%)	+0d (0%) 
	Variance from Revised Schedule:			N/A 

\*\* The Contractor's last Update shows minor slippage, but Metro has not accepted the Critical Path and expects this slippage to be corrected



# I-5 North County Enhancements

## Safety

Project Hours: 226,353; Recordable Injury Rate: 1.76  
vs. The National Average: 2.4.

## Updates

- Overall Project progress is 22% 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.

## Equity

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



Rain and snow conditions caused closures north and south of project



Paving Lean Concrete Base (LCB) in the Median On-Going



Structural Excavation for RW-2708



Carpentry work at Butte Canyon Bridge



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# Projects without Life of Project (LOP) Budget



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





# 105 Express Lanes

BUDGET				
		Approved Budget to Date	Previous Period	Current Forecast
	Pre-Construction	\$119.4 M	N/A	\$119.4m
	Project	\$119.4 M	N/A	\$780M - \$1B
	Variance from Approved Pre-Construction Budget:		\$0M (0%)	\$0M (0%) 
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
	Variance from Revised Budget:			N/A 

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



# 105 Express Lanes

## Safety

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

## Updates

- **Design Seg 1 is 95%, Seg 2/3 35% complete.**
- **Progress:**
  - Dominquez Channel existing highway easement and construction permit will be on LA County May '23 Board Meeting
  - Opinion of Probable Cost (OPCC) and Independent Cost Estimate (ICE) was submitted on Seg. 1.
  - ROM for Seg 2/3 has been received from CMGC contractor.
  - Seg. 1 100% design submittal scheduled for April 2023.
  - Workshops between 105 CMGC and WSAB team for construction and schedule coordination are ongoing.
  - Workshops between 105 CMGC and Metro MOW groups to discuss median construction work are ongoing.
  - Draft SB 1 funding allocation request was submitted to Caltrans
  - Staff updating the Traffic and Revenue Study.

## Equity

- 70% of the project is within or adjacent to Equity Focus Communities.



Traffic on 105 Freeway Westbound






The Project Map





April 2023 Construction Committee

# G Line BRT Improvements Project

BUDGET				
		Approved Budget to Date	Previous Period	Current Forecast
	Pre-Construction	\$149.7M	\$149.7M	\$149.7M
	Project	\$149.7M	N/A	\$392-511M
	Variance from Approved Pre-Construction Budget:		\$0M (0%)	\$0M (0%) 
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
	Variance from Revised Budget:			\$0M 

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

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

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

\*\* Approved LOP only includes the Pre-Construction Budget. The project will request the remaining LOP budget upon award of the PDB Contract Phase 2.





# G Line BRT Improvements Project

## Safety

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

## Updates

- **Progressive Design Build Contract**
  - 30% design underway for stormwater capture, grade separations and bike path improvements key elements
  - Technology Evaluation for gated intersections complete and proceeding into Proof of Concept phase with recommended cloud tech solution for gate activation
  - Geotech Investigations and Survey underway
- **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 construction start pending City permit approval.
  - Sylmar – DWP undergrounding near completion. Charter planning to vacate line.
- **Property Acquisitions**
  - Eight acquisitions underway
  - Offers presented to owners between March 31, 2022, and May 24, 2022.
  - Board adopted the Resolution of Necessity for all properties in August 2022.

## Equity

- 11 of 17 stations (65%) are within or adjacent to Equity Focus Communities.



*Geotech- percolation testing for stormwater capture scope*





April 2023 Construction Committee

# East San Fernando Valley Transit Corridor

BUDGET				
		Approved Budget to Date	Previous Period	Current Forecast*
	Pre-Construction	\$496.9M	N/A	\$496.9M
	Proposed FFGA		N/A	\$2.8B - \$3.57B
	Variance from Approved Pre-Construction Budget:		\$0M (0%)	\$0M (0%)
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%)
	Variance from Revised Budget:			\$0M

\* Current cost forecast reflects 2023 Annual Program Evaluation. As PDB work progresses, final forecast will be confirmed.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
	N/A	N/A	N/A	2030
	Variance from Original:		+0d (0%)	+0d (0%) 
	Variance from Revised Schedule:			N/A 

\* Current schedule forecast reflects Metro's Draft Baseline Schedule. Approval is pending.





# East San Fernando Valley Transit Corridor

## Safety

Project Hours\*: 0; Recordable Injury Rate: N/A vs. The National Average: 2.4. \*AUA inaugurals on February 16, 2023.

## Updates

- **Design is 30% complete for systems, stations, MSF and utilities.**
- **Design is 60% complete for guideway and civil.**
- **Construction Management Support Services Contract**
  - Notice to Proceed (NTP) given to Arcadis / Mott MacDonald (AMM) Joint Venture November 4, 2022.
- **Maintenance and Storage Facility (Solar Energy & Storage)**
  - NTP on December 7, 2022 to PCS Energy LLC for the Public-private partnership (P3) Contract.
  - Maximum duration of 15 years, with three phases of work.
- **Advance Utility Adjustment (AUA) Contract DWP Design 1**
  - NTP on December 1, 2022 to W.A. Rasic Construction Company, Inc.
  - Field investigation work began February 16, 2023
- **Progressive Design Build Contract**
  - Progressive Design Build (PDB) Contract proposals received November 2022
  - Notice of Award was sent February 23, 2023
  - NTP on April 14, 2023
- **Property Appraisals underway**
  - Appraisal contracts awarded on August 11, 2022.
  - NTP in December 2022 to two real estate property appraisal firms, and three fixtures appraisal firms.
  - Appraisals commenced in January/February 2023.
  - Acquisition anticipates to commence in July/August 2023.

## Equity

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



**W.A. Rasic crew saw cutting pavement on Van Nuys Blvd. near Hartland St.**



**W.A. Rasic crew performing potholing on Van Nuys Blvd.**



**April 2023 Construction Committee**



# **Measure M Independent Taxpayer Oversight Committee**

## **Transit Projects Update**

Allison Yoh, Executive Officer  
June 7, 2023

# Measure M Transit Projects



## > Major Pillar Projects

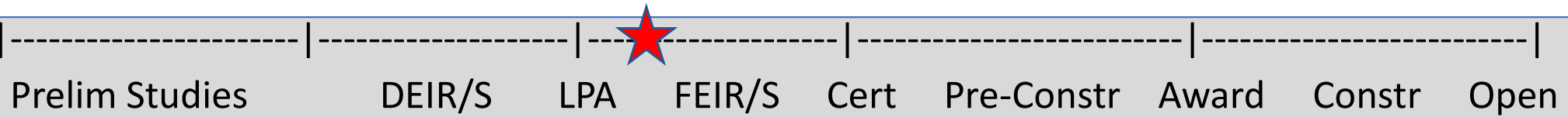
- A) West Santa Ana Branch
- B) Eastside Transit Corridor Phase 2
- C) Sepulveda Transit Corridor
- D) C (Green) Line Extension to Torrance

## > Other Projects in Planning and Development

- North Hollywood to Pasadena\*
- N. San Fernando Valley BRT\*
- Vermont Transit Corridor
- K Line Northern Extension

*\* Transitioning to Program Management and Operations*

# West Santa Ana Branch Transit Corridor



## Current Phase

## Most Recent Cost Estimate

EIR/EIS

\$7.1B (YOES) - IOS

## Recent Activities

- Completion of 15% design (project definition) for Final EIS/EIR
- Board motion (March) to re-evaluate Project name; professional services in procurement
- Received \$10M in federal earmark
- FTA appointed Project Management Oversight Committee (PMOC)

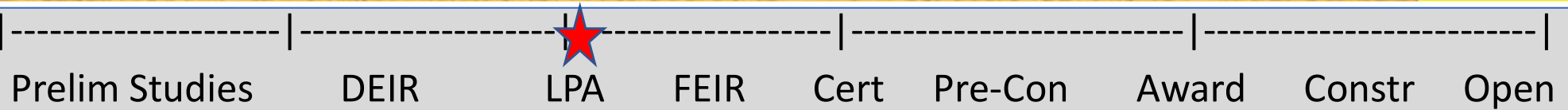
## Next Actions

- May: Public outreach on Final EIS/R design updates, Board action on contract modifications (COG, Eco-Rapid Transit, Cities)
- October: Finalize technical reports on design changes
- Spring 2024: Metro Board certification of Final EIR
- Summer 2024: FTA Record of Decision





# Eastside Transit Corridor Phase 2



## Current Phase

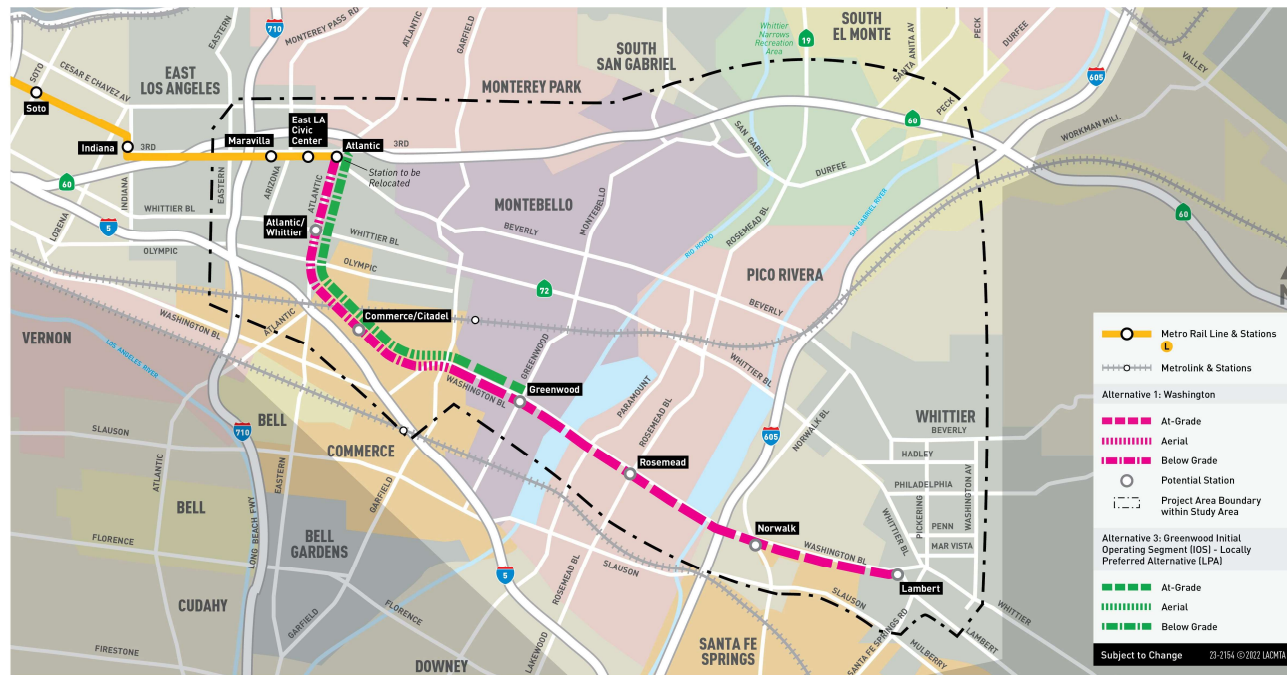
EIR/EIS

## Most Recent Cost Estimate

\$7.9B (YOE\$, 2031\$) – IOS

## Recent Activities

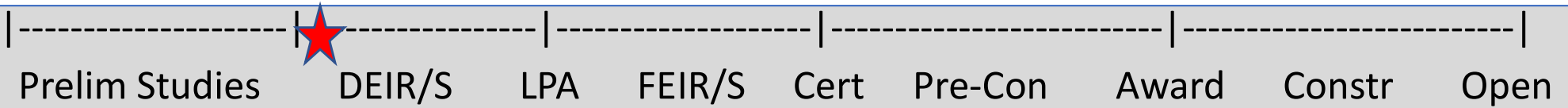
- Coordination with FTA to begin NEPA process
- Preparing a request over the next year to enter Project Development Phase
- Developing Cooperative Agreement with cities, conducting meetings with Washington Coalition
- Awarded \$35M from State TIRCP



## Next Actions

- Community rail tours
- Summer 2023: Lidar surveying and geotechnical investigations along the alignment
- Working with FTA to determine appropriate level of NEPA documentation

# Sepulveda Transit Corridor



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

## Recent Activities

- Ongoing coordination between alternative designs and environmental analysis
- Continued engagement with other projects and with third party agencies
- Began the federal Planning and Environmental Linkages (PEL) meetings with agencies

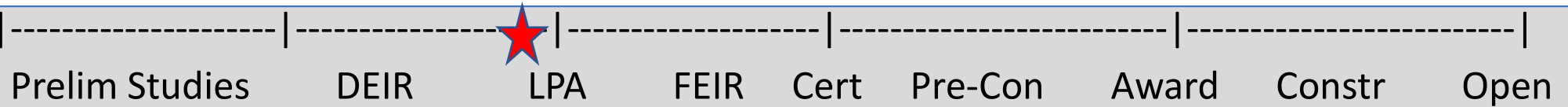
## Next Actions

- Continue to develop designs and prepare environmental technical studies
- Community meetings on performance of alternatives including travel time and ridership





# C (Green) Line Extension to Torrance



## Current Phase

EIR/EIS

## Most Recent Cost Estimate

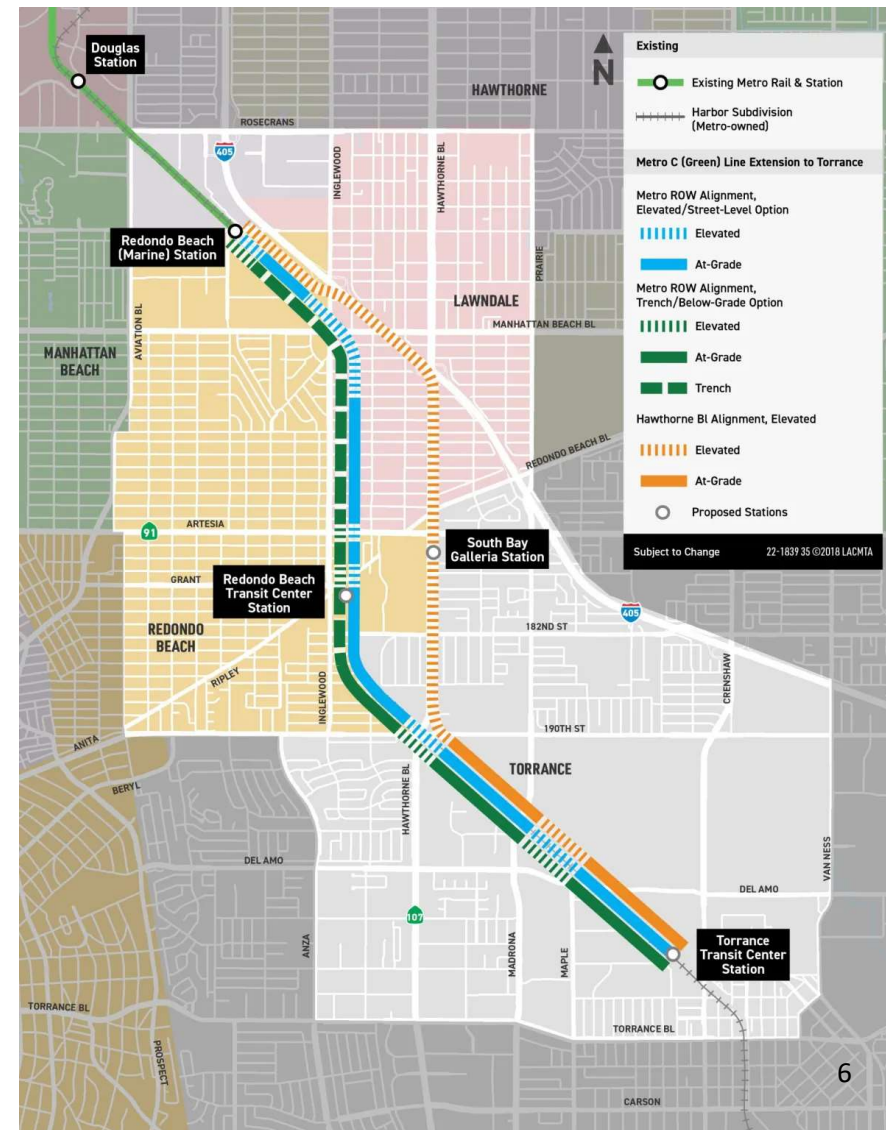
\$891M (2015\$)

## Recent Activities

- Released Draft EIR and technical reports (cost, ridership, outreach) on January 26
- Held five public hearings in February
- Briefing key stakeholders on Draft EIR and collecting public comments until March 27 (close of 61-day comment period)

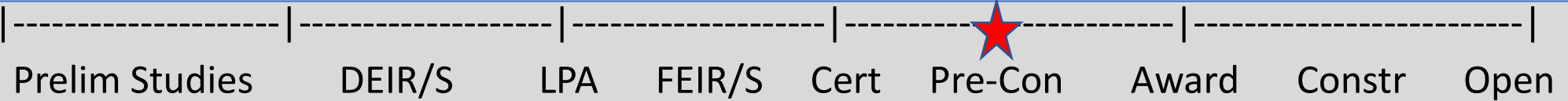
## Next Actions

- Review public comments
- Prepare staff recommendations based on project objectives
- Early Fall 2023: Board selection of Locally Preferred Alternative (LPA)





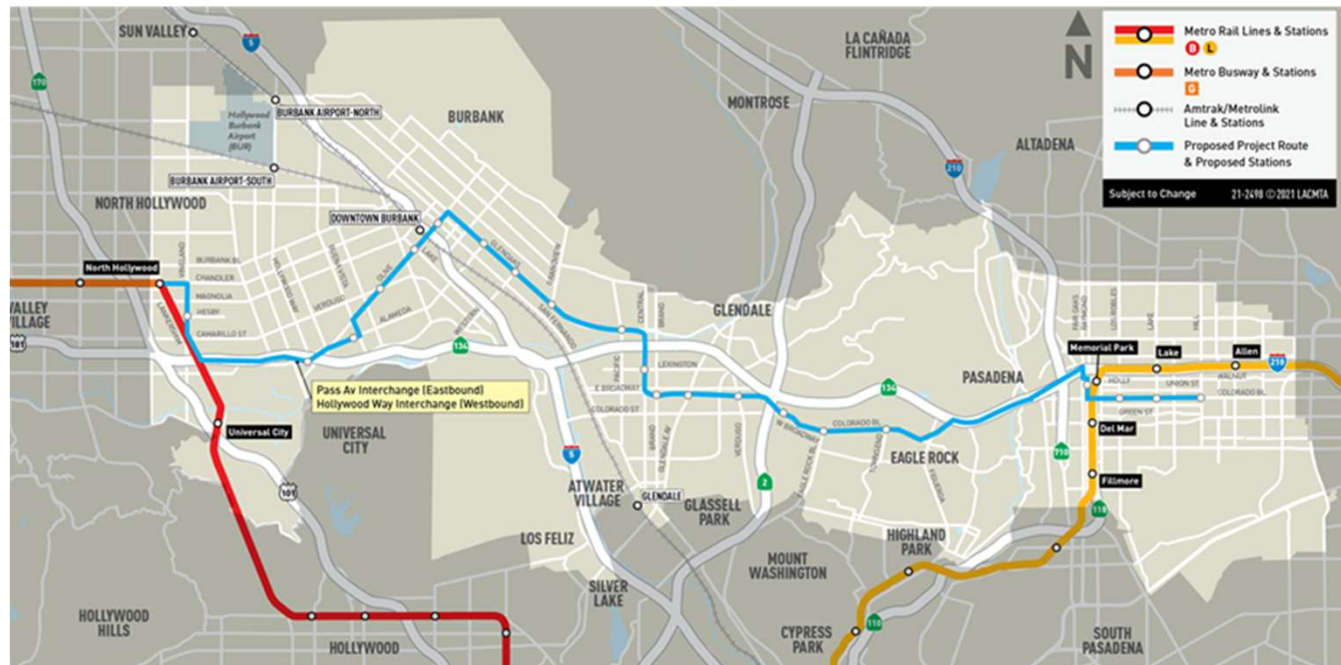
# North Hollywood to Pasadena BRT



Current Phase	Most Recent Cost Estimate
Pre-Construction	\$263M - \$386M (2015\$) - Capital

## Recent Activities

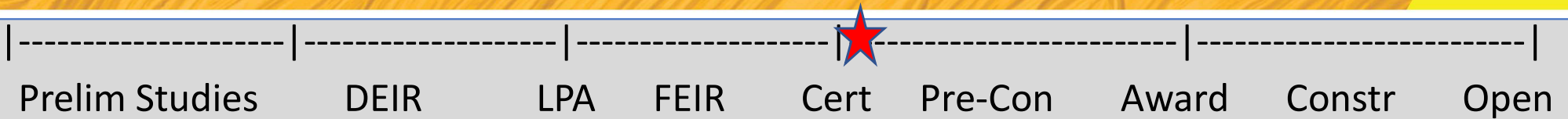
- Preliminary engineering
- Meeting with each city on corridor to discuss project design
- Advancing project design (e.g., bus lanes, stations, transit signal priority, etc.)



## Next Actions

- Mid-2023 – Procure technical services to develop First/Last Mile Plan
- Spring/Summer 2023 - Release RFP for project management support services and final design (transition to Program Management)

# North San Fernando Valley BRT Improvements



Current Phase	Most Recent Cost Estimate
Pre-Construction	\$180M (2015\$)

## Recent Activities

- Developed design of bus bulbs at select locations
- Initiated procurement of battery electric buses and charging infrastructure under Metro Operations
- Continuing to engage key stakeholders

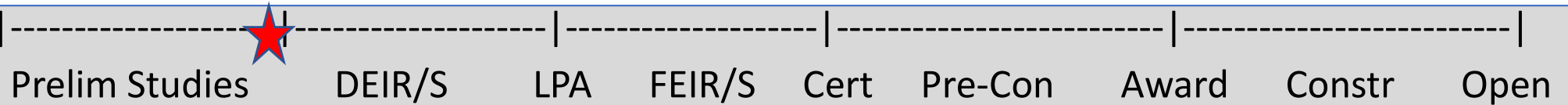
## Next Actions

- Initiate design of peak period bus only lanes
- Continue coordination with Streets LA on bus shelter implementation
- Continue transition of Project Implementation to Metro Service Development
- Continue key stakeholder engagement





# Vermont Transit Corridor



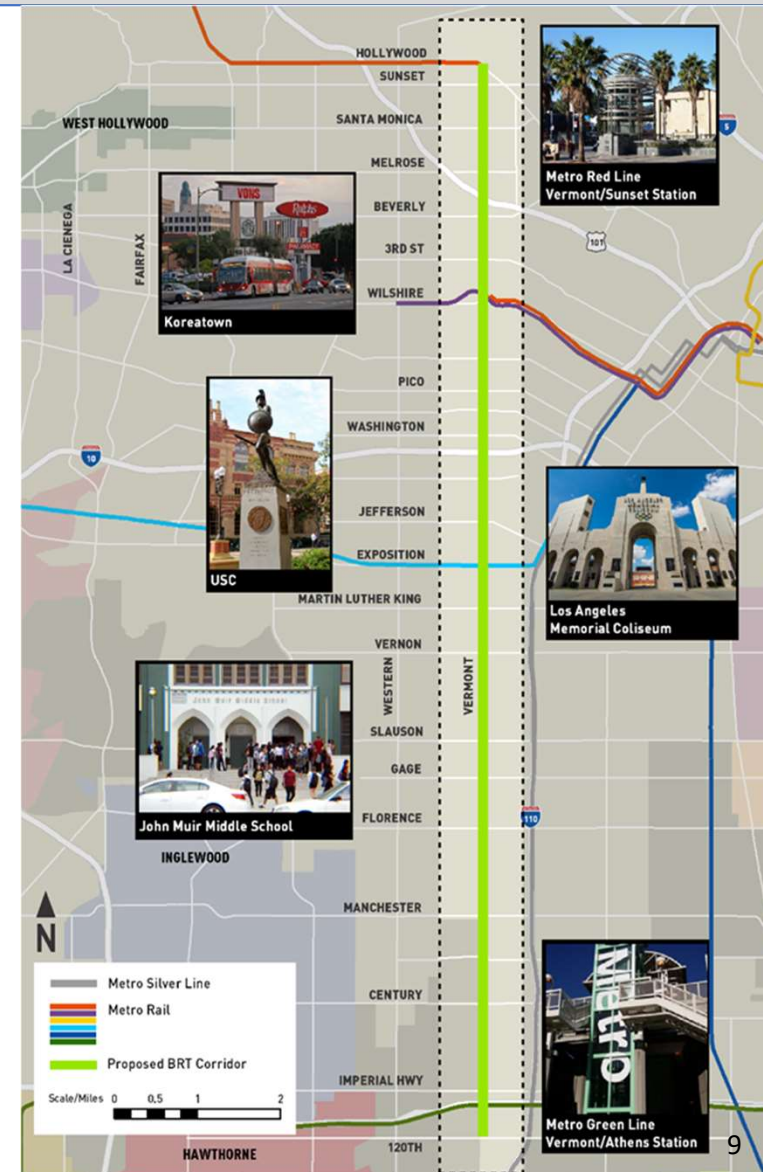
Current Phase	Most Recent Cost Estimate
Preliminary Studies	\$425M (2015\$)

## Recent Activities

- Continued community/stakeholder engagement
- February 2023: Released RFP for planning and environmental studies for mid-term BRT and long-term rail improvements

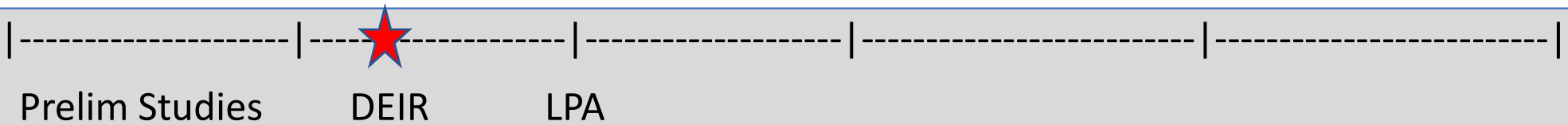
## Next Actions

- June 2023 (anticipated): Issue RFP for communications and outreach services
- Coordinate with Service Planning on near-term bus service improvements





# K Line (Crenshaw) Northern Extension

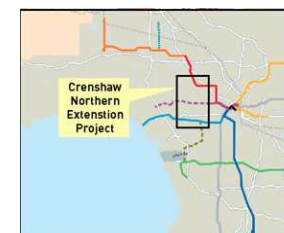
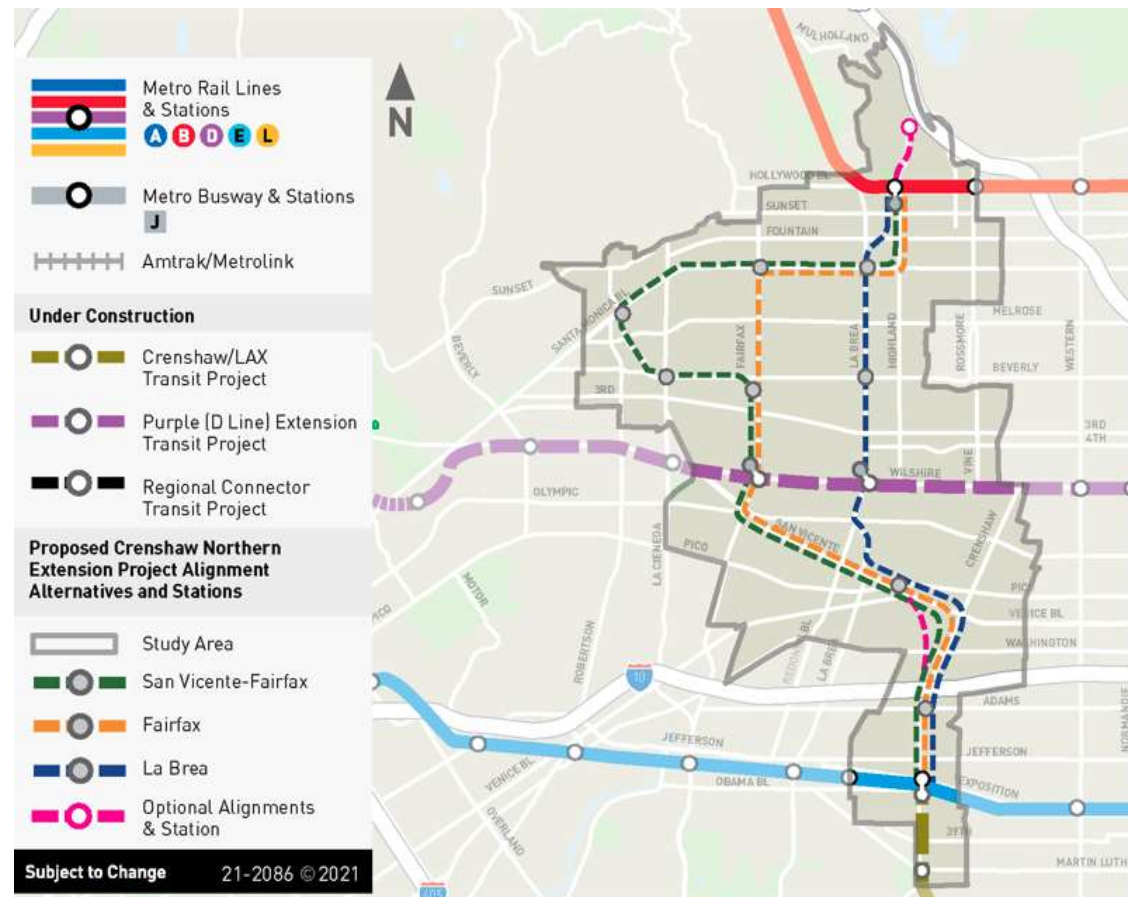


## Recent Activities

- Travel demand forecasting, environmental analysis in preparation of Draft EIR
- Reviewing real estate, capital & operating cost estimates
- Developing DEIR engineering concepts for three alternatives

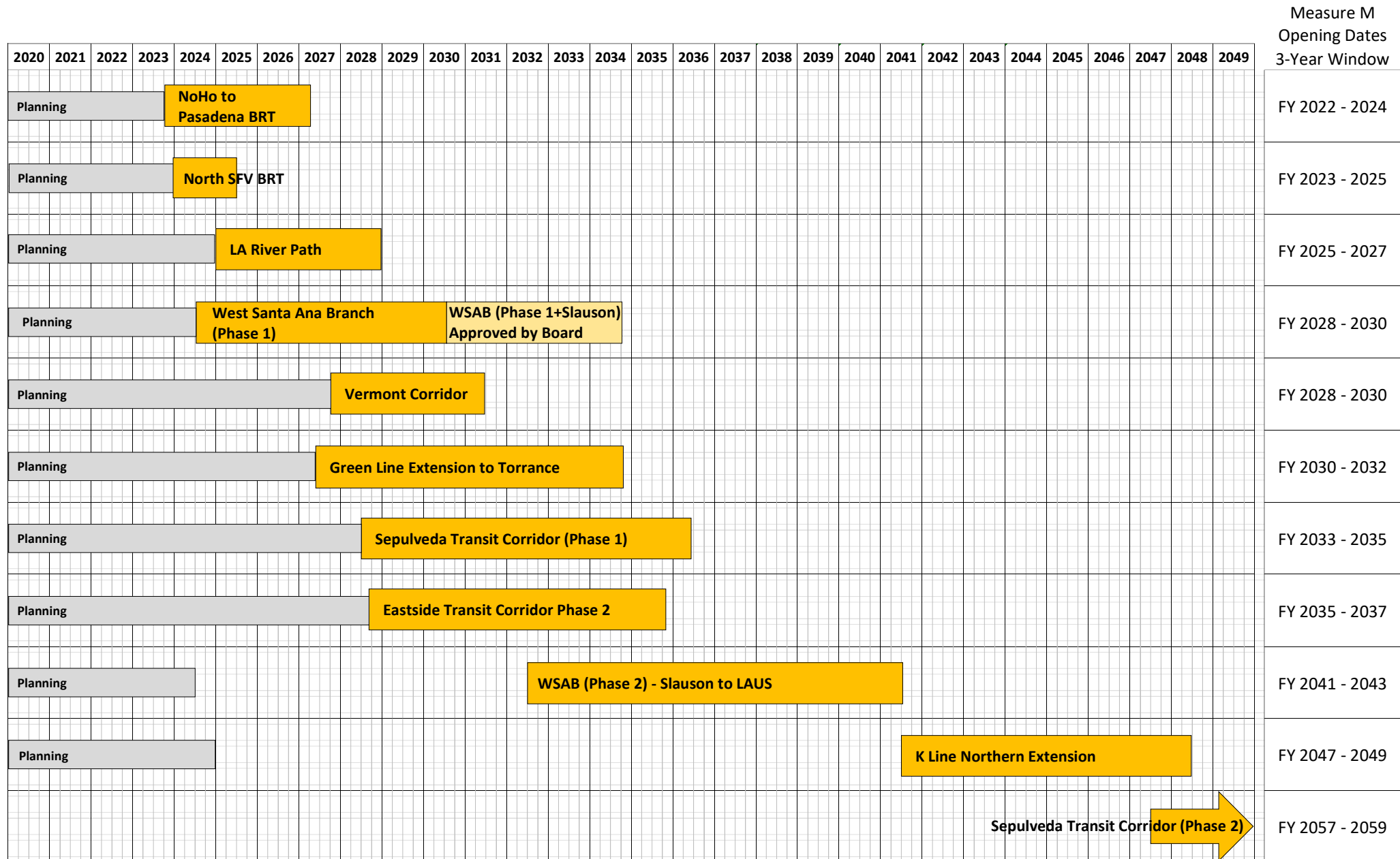
## Next Actions

- Advance environmental impact analysis & prepare technical reports
- Planning for community meetings (anticipated Summer 2023)



# Measure M Expenditure Plan

## Groundbreaking to Opening Dates



# **Measure M Independent Taxpayer Oversight Committee**

## **Complete Streets & Highway Project Updates**

Nelli Derderian

Director, Finance & Administration

June 07, 2023



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



Current Phase	Phase Budget	Phase Spent To Date
Construction	\$148.10M	\$49.38M

Expenditures as of 03/31/23

## Purpose and Scope

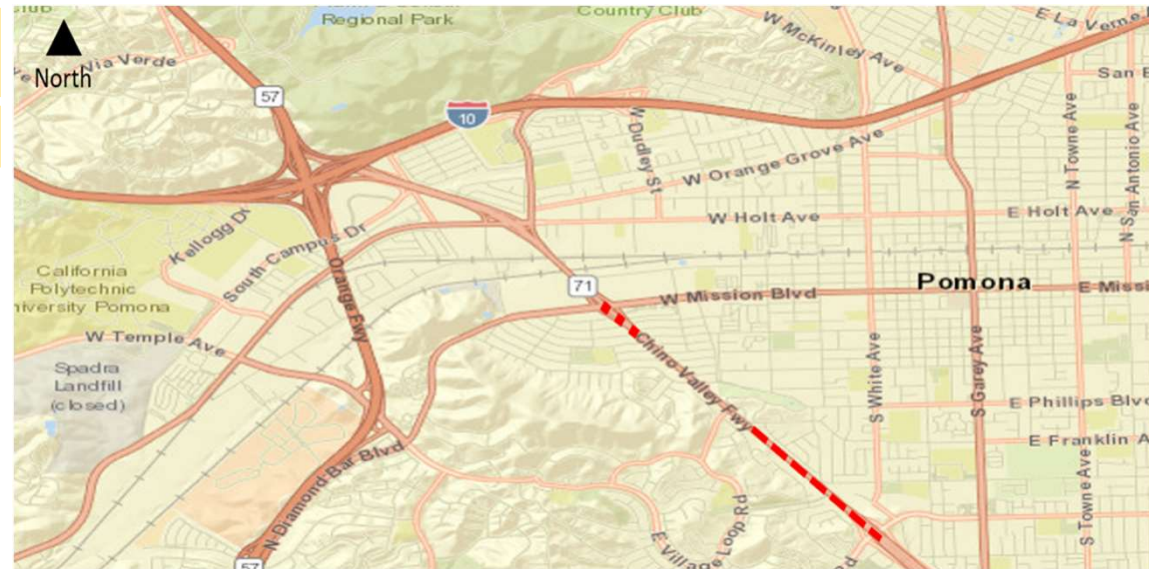
- **Caltrans-managed** project adding HOV lane between Mission Blvd & San Bernardino County Line.

## Multimodal Elements

- N/A

## Status

- Construction is 39% complete with anticipated completion by end of 2025; planned utility relocation was unsuccessful, new location is being sought and redesign of the utility pole
- Soft costs spent to date are from State and Federal funds.



## Challenges

- Unsuccessful temporary construction easement (TCE) negotiations between utility company and private property owner for utility relocation
- New location in public ROW is being sought and redesigned to avoid tree.

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



Current Phase	Phase Budget	Phase Spent To Date
Design	\$40.40M	\$22.95M

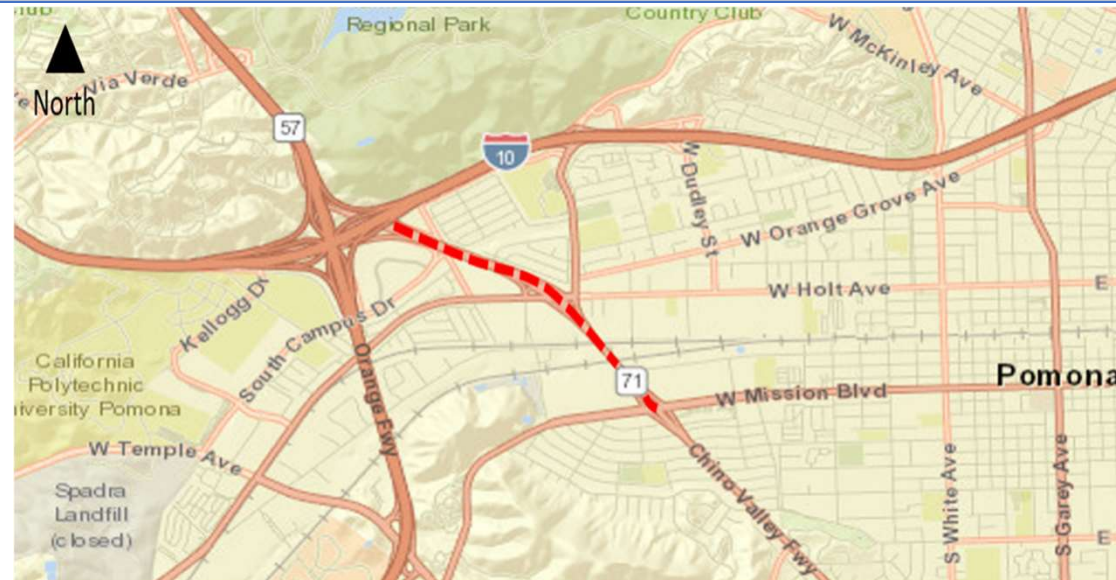
Expenditures as of 03/31/23

## Purpose and Scope

- **Caltrans-managed** project adding HOV lane from I-10 to Mission Blvd.

## Multimodal Elements

- Upgrade current pedestrian bridge to comply with current ADA requirements.



## Status

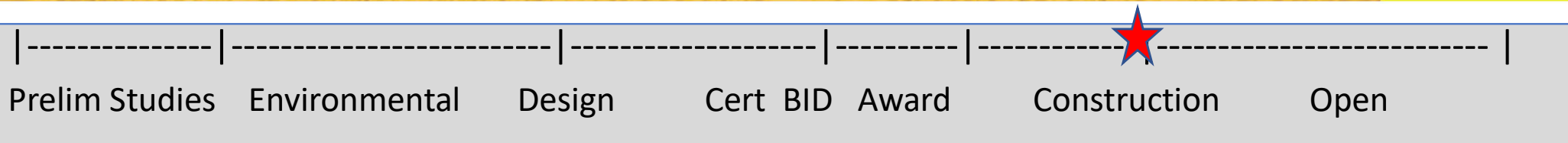
- PS&E schedule pending resolution of project funding shortfall.
- Caltrans has identified significant cost increases and potential schedule delays in this Segment.
- Metro is coordinating with Caltrans and the San Gabriel Valley Council of Governments to identify potential solutions to complete the project.
- Soft costs spent to date are from State & 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/safety improvements including grade-separation of Grand Ave eastbound off-ramp.
- **Construction led by the San Gabriel Valley COG** with Metro and Caltrans oversight.

## Multimodal Elements

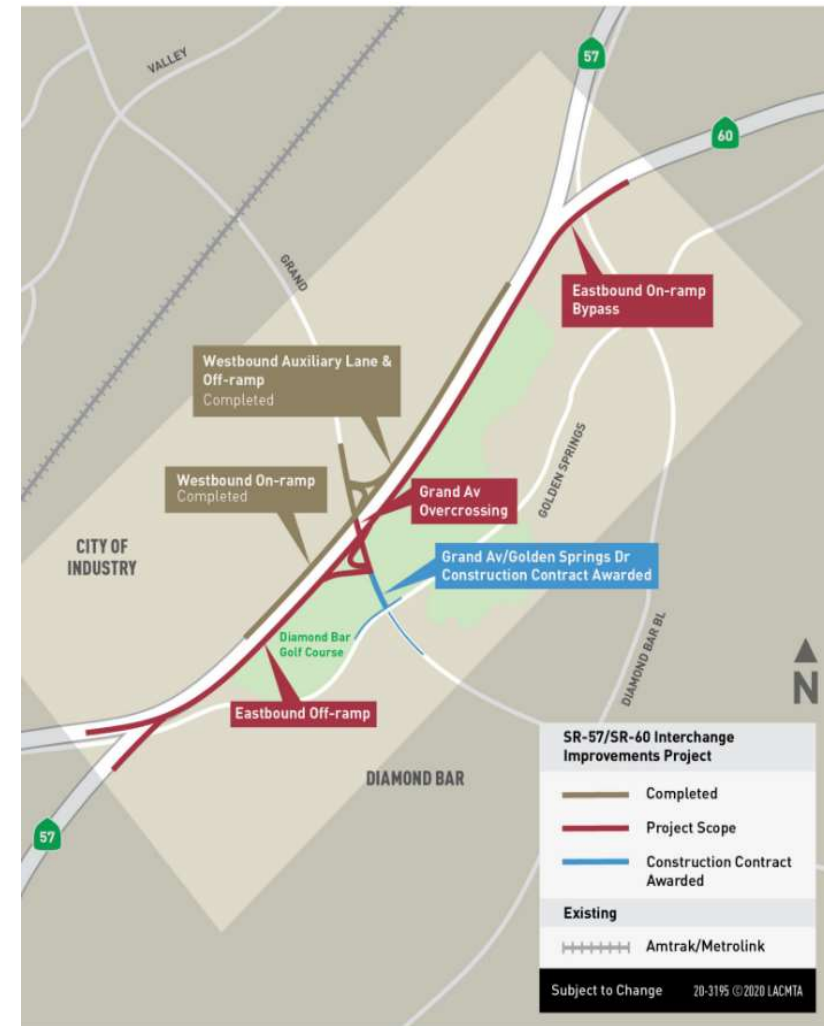
- Project includes improvements to local bridge, sidewalk and bicycle facilities.

## Status

- Construction contract awarded on February 27, 2023.
- Construction Funding Agreement in progress, expected to be executed in May 2023.
- Property mitigation activity is progressing as scheduled.
- Groundbreaking scheduled for June 30, 2023.

## Challenges

- Closing negotiations on required Right of Way.





# I-405 South Bay Curve Improvements

## Southbound Auxiliary Lanes; I-105 to Artesia



### Purpose and Scope

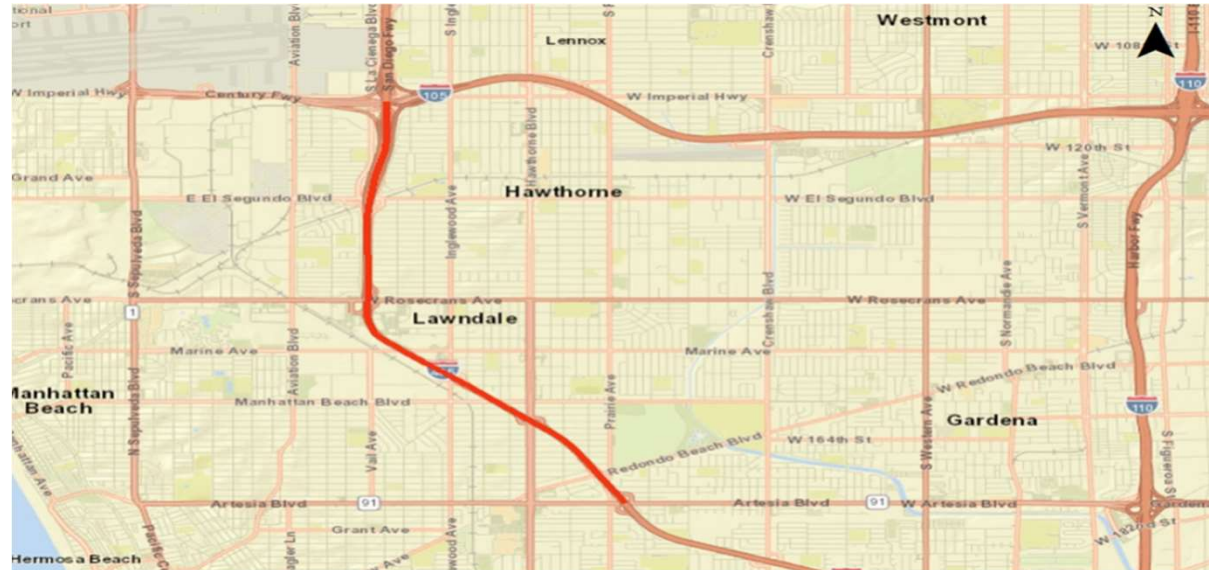
- Improve safety and operations by reducing freeway conflicts at high congestion on/off ramp locations.
- Northbound and Southbound Auxiliary lane improvements between freeway on/off ramps within Caltrans Right of Way.
- **Metro leading design phase.**

### Multimodal Elements

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

### Status

- 65% design plans submitted to Caltrans in April 2023.
- Anticipating 95% design submittal by Spring 2024.

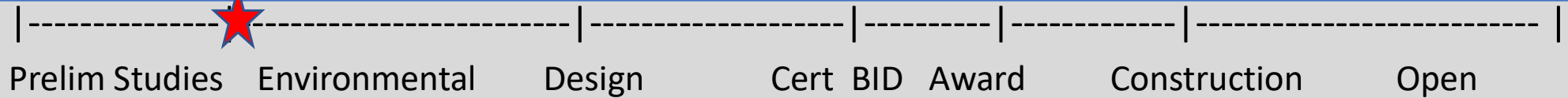


### Challenges

- Construction phase is not fully funded.

# I-405 South Bay Curve Improvements

## I-110 to Wilmington – Auxiliary Lanes



### 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.
- **Metro leading environmental phase.**

### Multimodal Elements

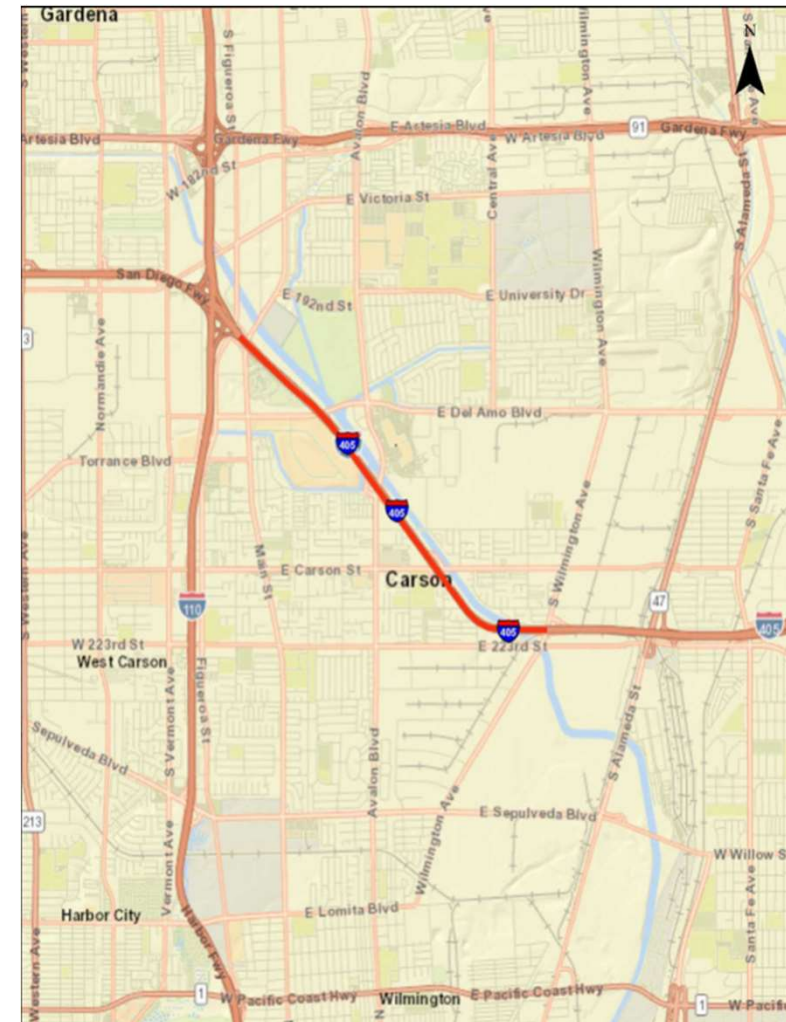
- Project will include ramp termini improvements (e.g., continental crosswalks, leading pedestrian intervals, bike boxes, etc.).
- May include other pedestrian/bicycle and transit stop improvements.

### Status

- Environmental phase projected to start in June 2023.
- Project being scoped in collaboration with City of Carson and Caltrans in accordance with Objectives for Multi-Modal Highway Investment.

### Challenges

- VMT analysis and potential mitigation.
- Construction phase is not fully funded.





# SR-14 Improvements – North County



Prelim Studies

Environmental

Design

Cert BID

Award

Construction

Open

## Purpose and Scope

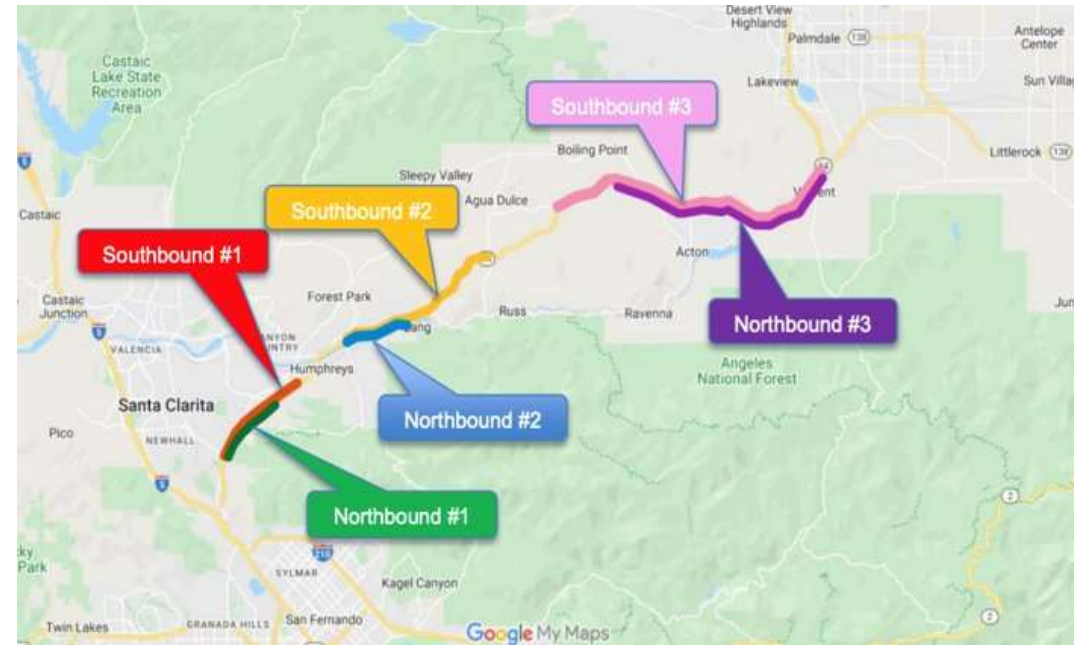
- Project Limits - Newhall Ave undercrossing to Pearblossom Highway.
- Address traffic safety concerns (higher than state average incident rates).
- Improvements may include lane additions (where there are gaps), realigning ramps, widening structures, constructing retaining walls and modifying drainage.
- **Metro leading environmental phase.**

## Multimodal Elements

- Environmental document will evaluate a broad range of alternatives that will be inclusive of multimodal elements (e.g., commuter rail, bike, ped improvements).

## Status

- North county Transportation Commission allocated \$4.7M in Measure M funds for Environmental Phase.
- Environmental Phase expected to start in May 2023 using the Multimodal Highway On-Call.



## Challenges

- VMT analysis and potential mitigation.