

*Mobility. Environment. Community. Economy. Technology*



I-710 Corridor Project EIR/EIS

*metro.net*

# North Utility Study Status Report

presented to the

## Technical Advisory Committee

June 19, 2013



**Metro**



**Caltrans**



**GATEWAY CITIES**  
ALLIANCE OF MUNICIPALITIES



The Port of  
**LONG BEACH**



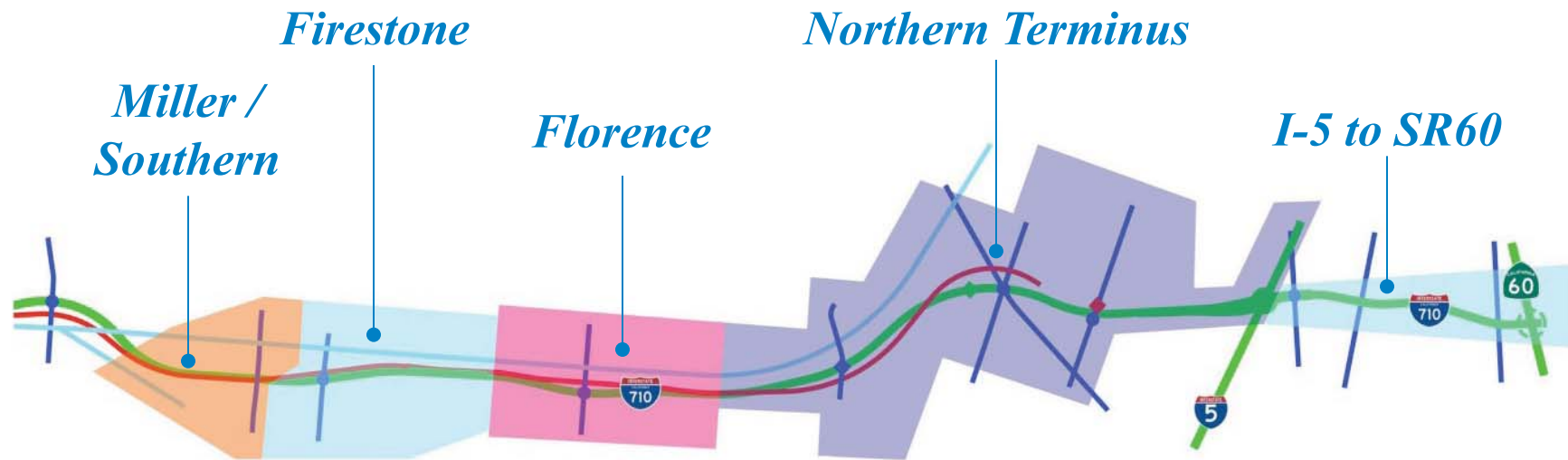
**THE PORT**  
OF LOS ANGELES



SOUTHERN CALIFORNIA  
**ASSOCIATION OF  
GOVERNMENTS**

# North Utility Study Overview

- Limits of the North Segment Utility Study are LA River to SR-60



## Corridor Communities

*South Gate / Downey / Cudahy / Bell Gardens / Maywood / Huntington Park  
Bell / Commerce / Vernon / East Los Angeles*

# North Utility Study Overview

- Primary Objectives of Study
  - Major Utility Coordination & Rights Searches
  - Advance Planning Studies for the Freight Corridor
  - Major Utility Relocation/Protection Strategy
  - LA River & Railroad Coordination

# Activities Completed

- Constraints analysis for the Freight Corridor Viaduct
- Structures:
  - Developed a Single Column Freight Corridor Viaduct Concept to be considered in confined R/W locations
  - Documented design development of single column concept and prepared summary report for Metro/GCCOG and internal distribution

# Activities Completed (Continued)

- Geotechnical studies:
  - Completed geotechnical studies
  - Prepared Draft Structures Preliminary Geotechnical Report (SPGR)
  - Conducted supplemental geotechnical investigation to support the single column concept

# Activities Completed (Continued)

- Utilities research and coordination:
  - Major utility identification & mapping
  - Utility owner rights search
  - Major utility crossing conflict matrix & field review
- Evaluated LA River guiding documents in support of Metro response to DEIR/DEIS comments

# Major Deliverables To Date

- Initial Constraints Memorandum
- Single Column Viaduct Summary Report
- Existing Utilities Plans and Inventory Matrix
- Rights Reports for Utility Owners
- Geology & Geotechnical Data Report

# Activities in Progress

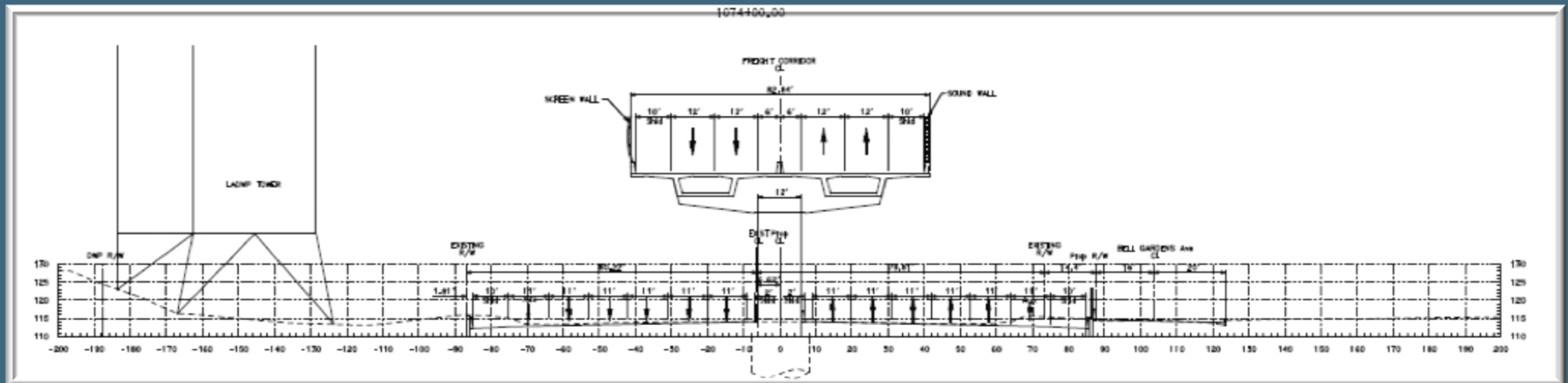
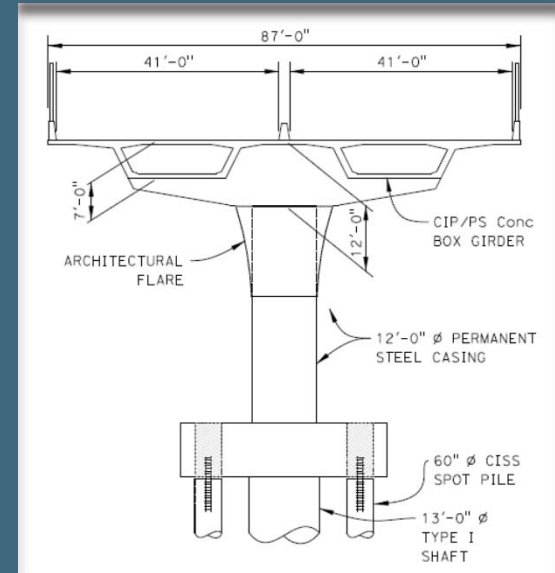
- Ongoing support of the I-710 Corridor EIR/EIS team in development of RDEIR/SDEIS
- Provide supplementary information as needed to facilitate Caltrans approval of single column concept
- Amending single column summary report with supplemental information in preparation for submittal to Caltrans
- LA River coordination with USACE & LACFCD



# Three-Month Look Ahead

- Obtain Caltrans structural concurrence with single column concept and APS methodology
- Initiate Advance Planning Studies (APS) for structures cost estimates
- Major utility conflict identification and relocation/protection mitigation
- Support EIR/EIS team on coordination with LA Junction RR / BNSF / UPRR

# Single Column Viaduct Structure



# Single Column Structure Design Characteristics

- 7' deep, 87' wide superstructure
- 35' min. clearance
- 150' span lengths
- 12' diameter columns
- Deep pile foundation with 5 pile array:
  - Large center pile with 4 smaller outer piles
  - 130'-150' deep piles