

Purple Line Extension

Section 3 Pre-Construction Community Meeting

March 21, 2019



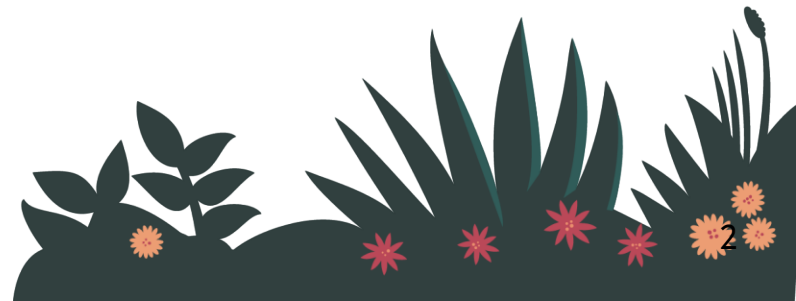
Agenda

- Project Overview and Construction Schedule
- Section 3 Stations
 - Westwood/UCLA
 - Advanced Utility Relocation
 - End-Wall Piling
 - Westwood/VA Hospital
 - Station/TBM Power Connection
 - VA Campus Haul Route



Metro

- Q&A



Purple Line Extension

Project Alignment



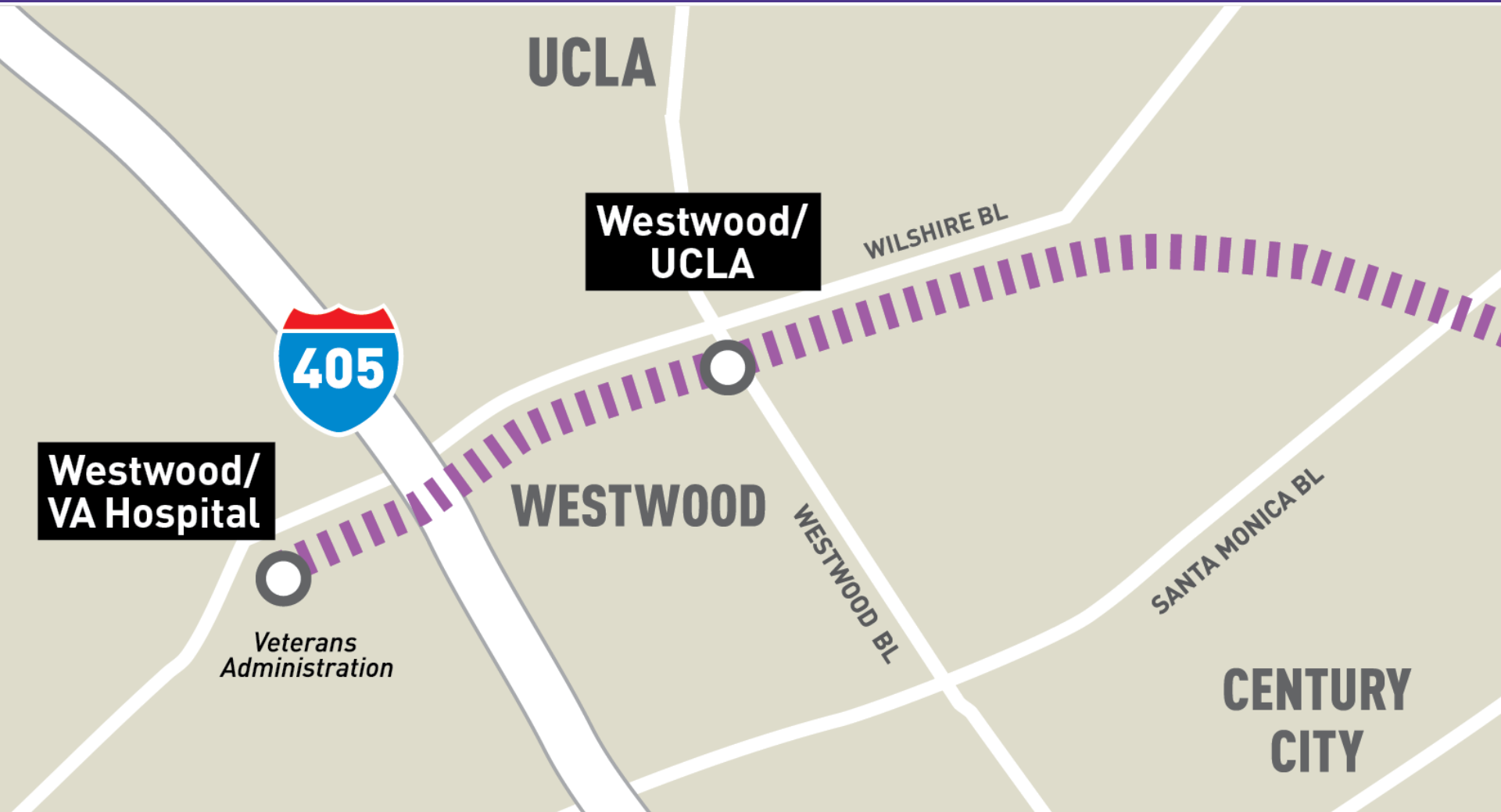
Sections 1, 2 & 3 Status

**Subject to change. The PLE project team is working to deliver the project consistent with Measure M*

| | Forecasted Schedule | | |
|-----------------------------|---|--|--|
| Section | Section 1 | Section 2 | Section 3 |
| Length | 3.92 Miles | 2.59 Miles | 2.56 Miles |
| New Stations | Wilshire/La Brea Wilshire/Fairfax Wilshire/La Cienega | Wilshire/Rodeo Century City/ Constellation | Westwood/UCLA Westwood/VA Hospital |
| Pre-Construction Activities | 2014 – 2015 | 2016 – 2018 | 2018 – 2019 |
| Construction | 2015 – 2023 | 2018 – 2025 | 2019 – 2027 |
| Operations | 2023 | 2025 | 2027 |

Purple Line Extension

Section 3 Alignment



Section 3 Tentative Schedule

**Dates are preliminary and subject to change*

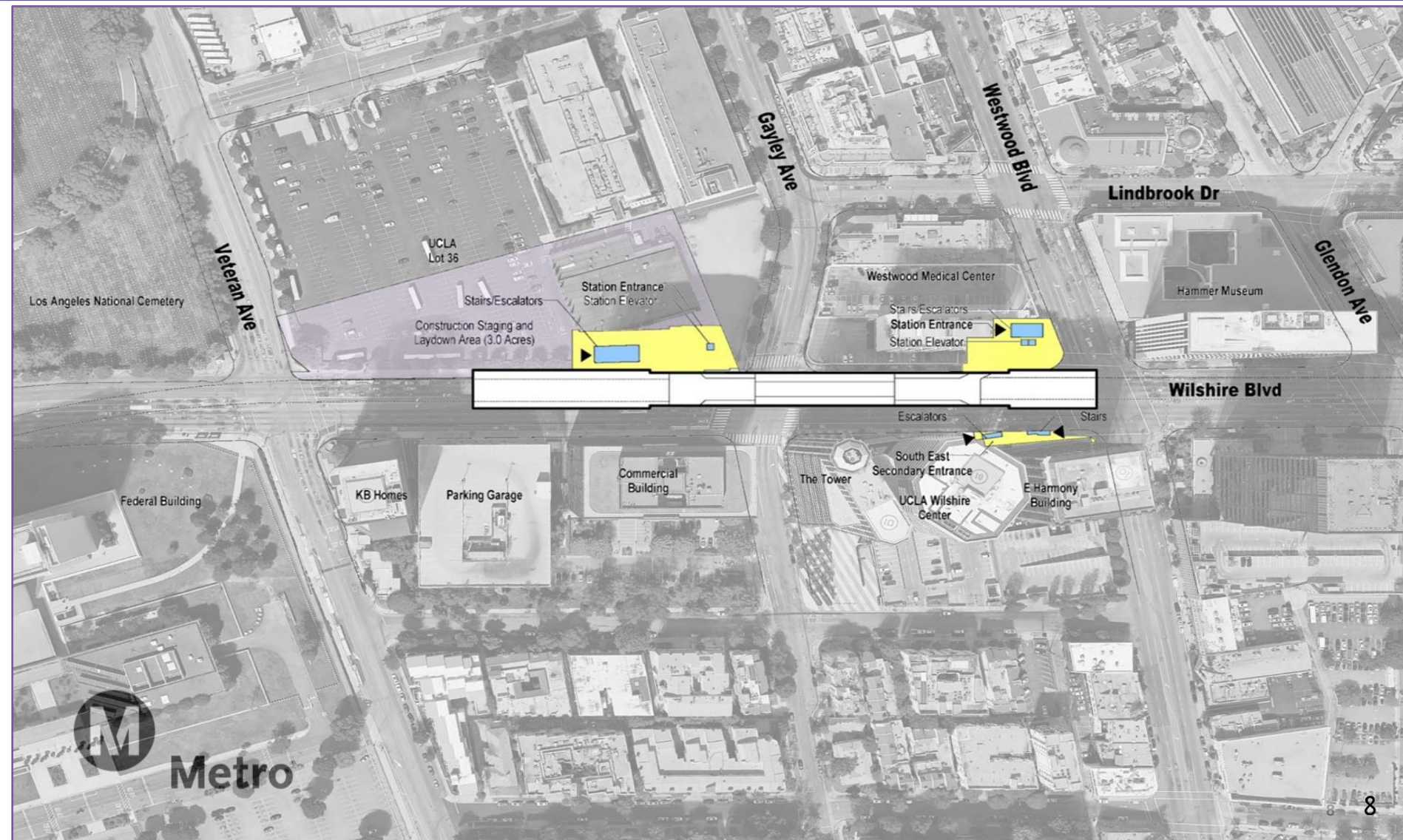
| Summary Activity | Construction Year | | | | | | | | | | | | |
|---|-------------------|------|------|------|------|------|------|------|---|---|---|---|---|
| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | | | | | |
| TBM Launch Box Piling / Excavation at Western VA Staging Area | ■ | ■ | | | | | | | | | | | |
| Tunneling | | ■ | ■ | ■ | ■ | ■ | | | | | | | |
| Cross Passages | | | | ■ | ■ | | | | | | | | |
| Station Construction | | | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | | |
| Systems Installation and Facilities | | | | | | | | | ■ | ■ | ■ | ■ | |
| Station Backfill and Street Restoration | | | | | | | | | ■ | ■ | ■ | | |
| System Integration & Testing | | | | | | | | | | | | ■ | ■ |

Westwood/UCLA

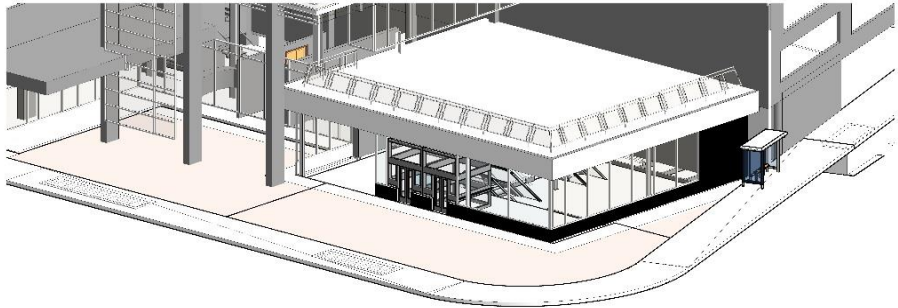
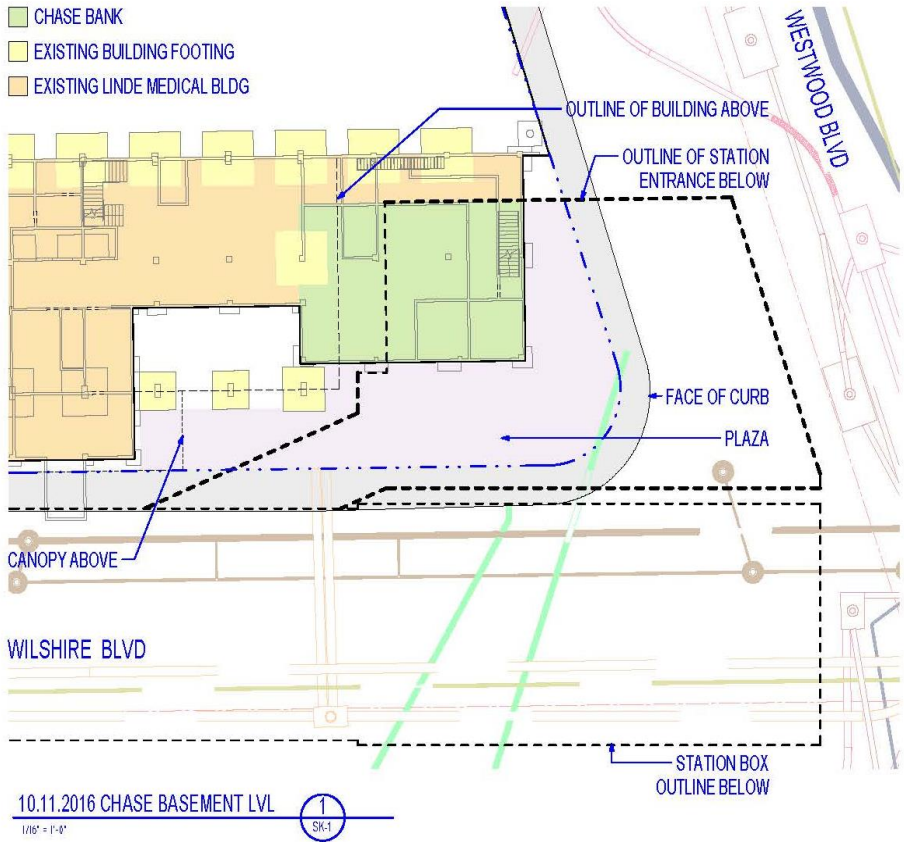
Station Rendering



Westwood/UCLA Station Outline



Northeast Full Entrance – Chase Bank



Westwood/UCLA

Schedule – Key Dates*

**Dates are approximate and subject to change.*

| Activity | Forecast Start | Forecast Finish |
|-----------------------------------|----------------|-----------------|
| Advance Utility Relocation (AUR) | Spring 2018 | Spring 2020 |
| End-wall piling at UCLA Station | Spring 2020 | Fall 2020 |
| City sewer/storm drain relocation | Fall 2020 | Spring 2021 |
| Station piling and decking | Spring 2021 | Spring 2022 |

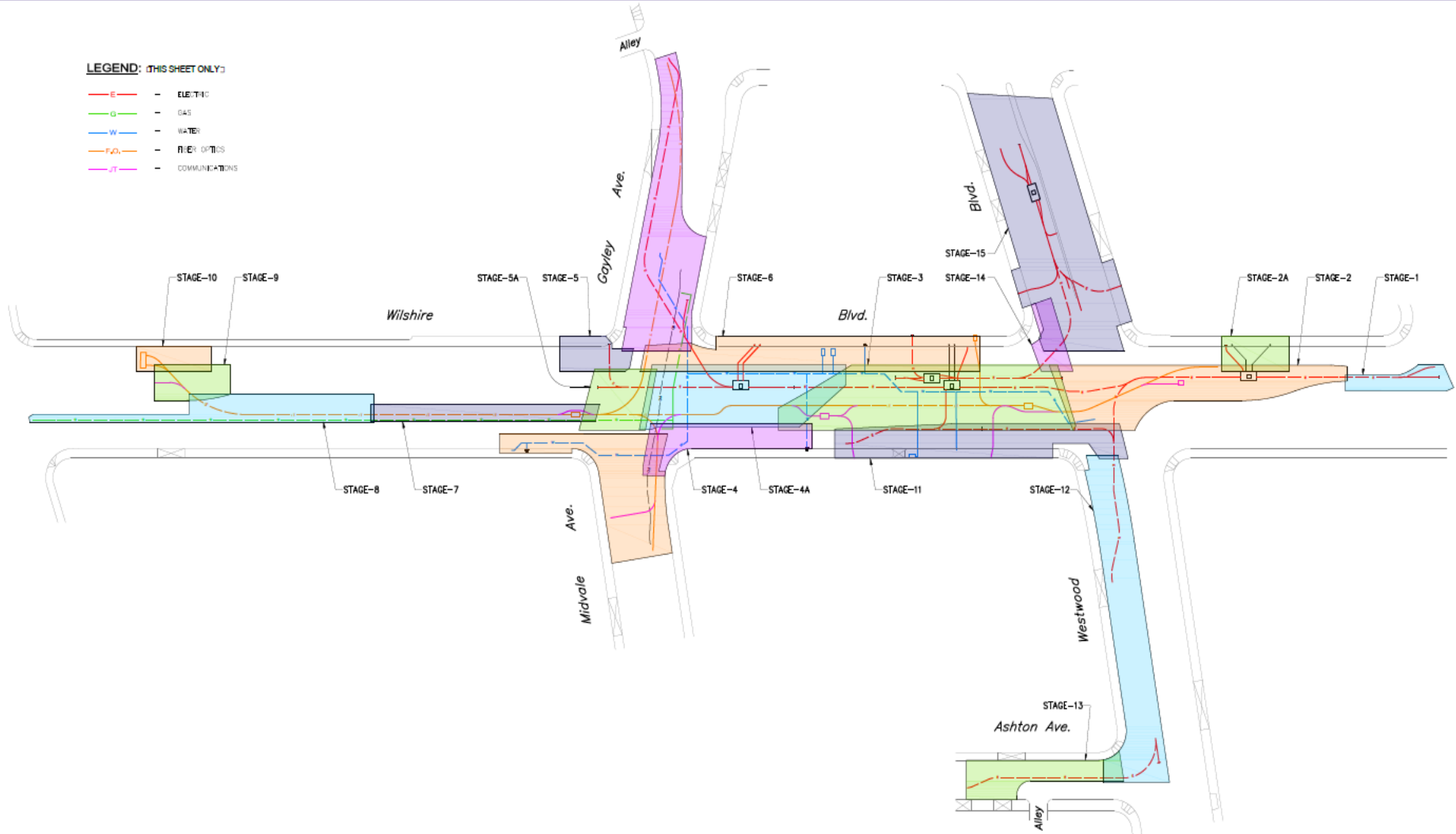
Advanced Utility Relocation (AUR)

- **Utility relocation**
 - Clear the way for station construction
 - Telecom, gas, water, electricity, sewer
 - Ensure continued utility service
 - Spring 2018 – Spring 2020
 - **Permitted Work Hours:**
 - Monday-Friday: 9pm – 6am
 - Weekend Work: Friday, 9pm – Monday, 6am
- **Typical process:**
 - Hours and traffic plans approved by City of Los Angeles
 - Maintain at least one lane of traffic in each direction on Wilshire
 - Truck/crew leave and lanes reopen at the end of each work period
 - Noisiest activities include saw-cutting and jack-hammering



Advanced Utility Relocation (AUR)

Westwood/UCLA Station



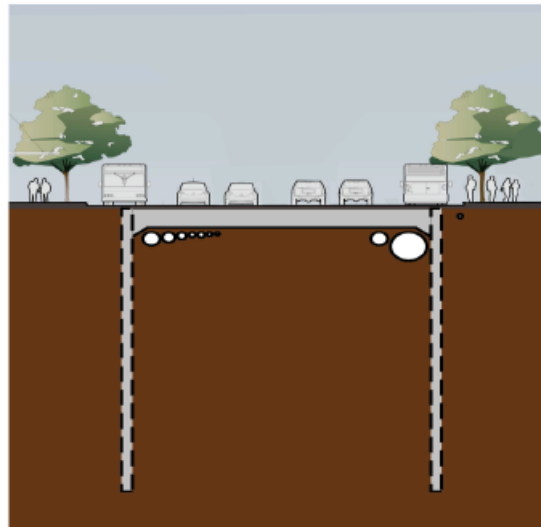
Advanced Utility Relocation (AUR) Electrical Vault Installation



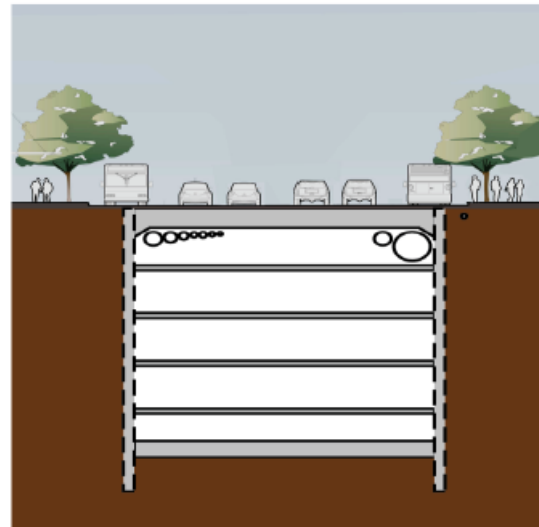
Advanced Utility Relocation (AUR)



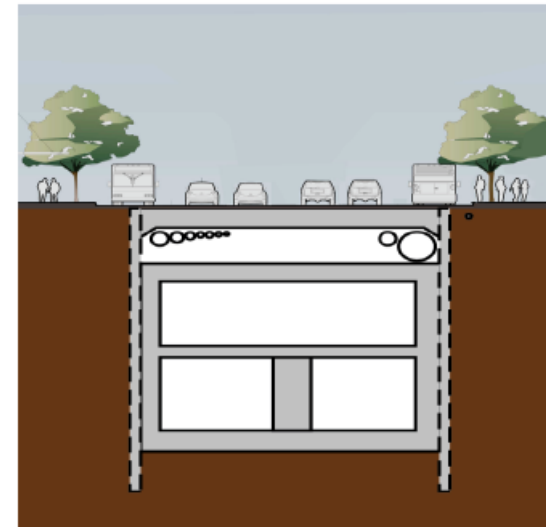
Station Construction Overview



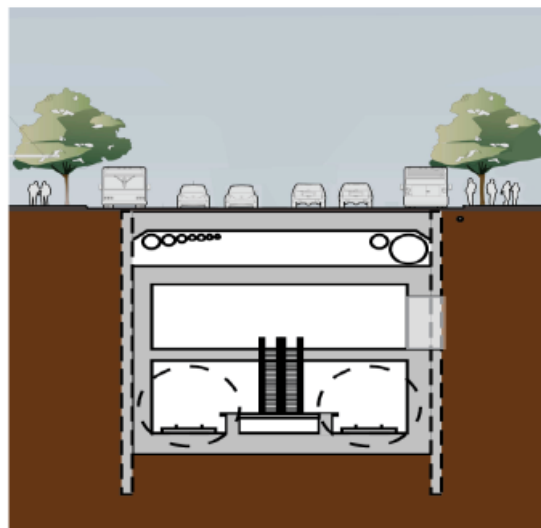
Install Piles and Decking



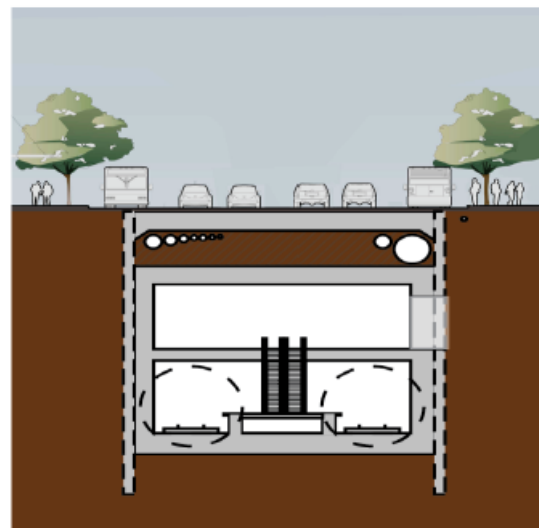
Excavate and Install Supports
(from beneath decking)



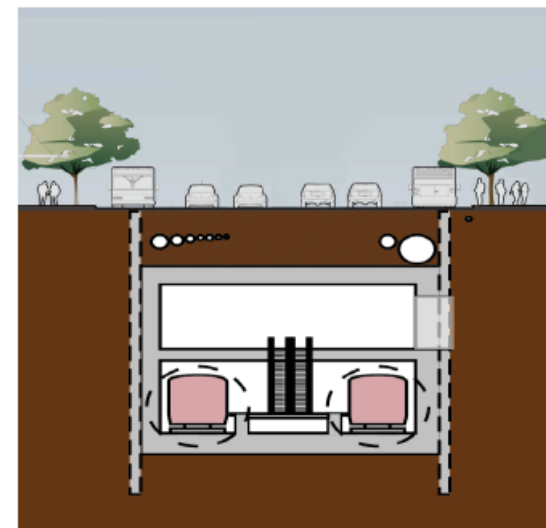
Construct Station Box



Complete Station Box

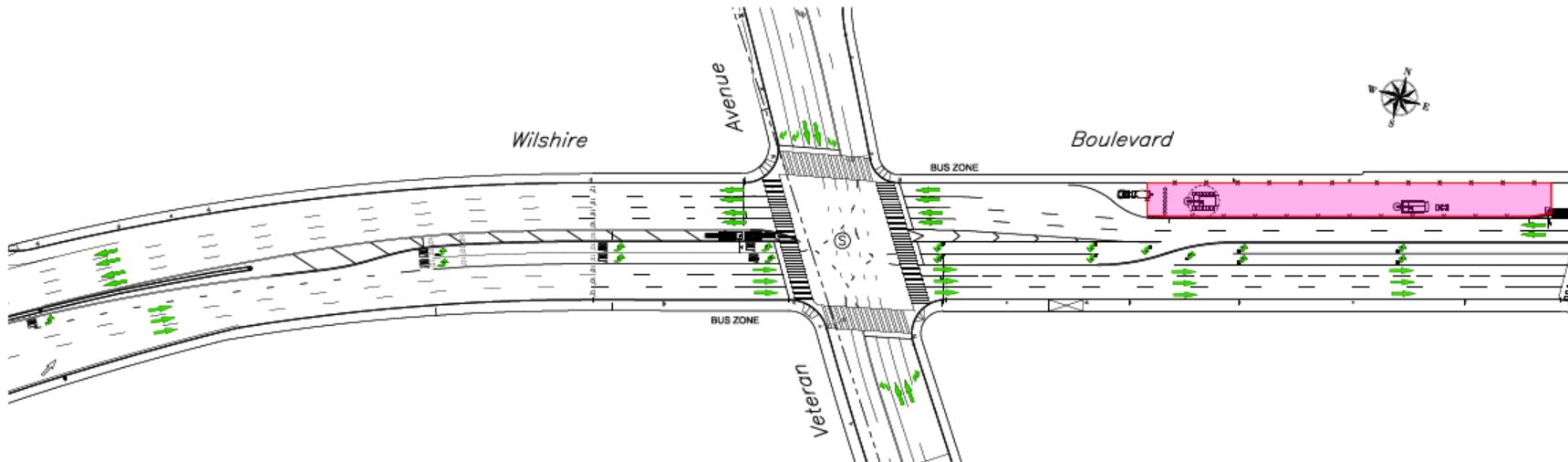
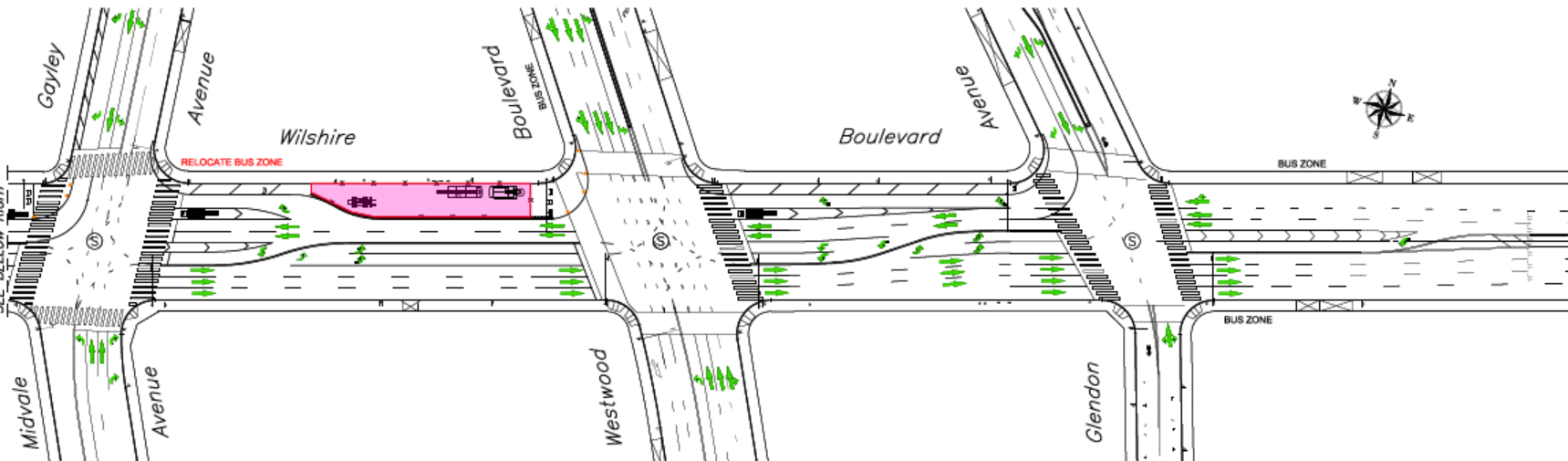






Backfill Above Structure



Remove Decking and
Restore Street

End-Wall Piling

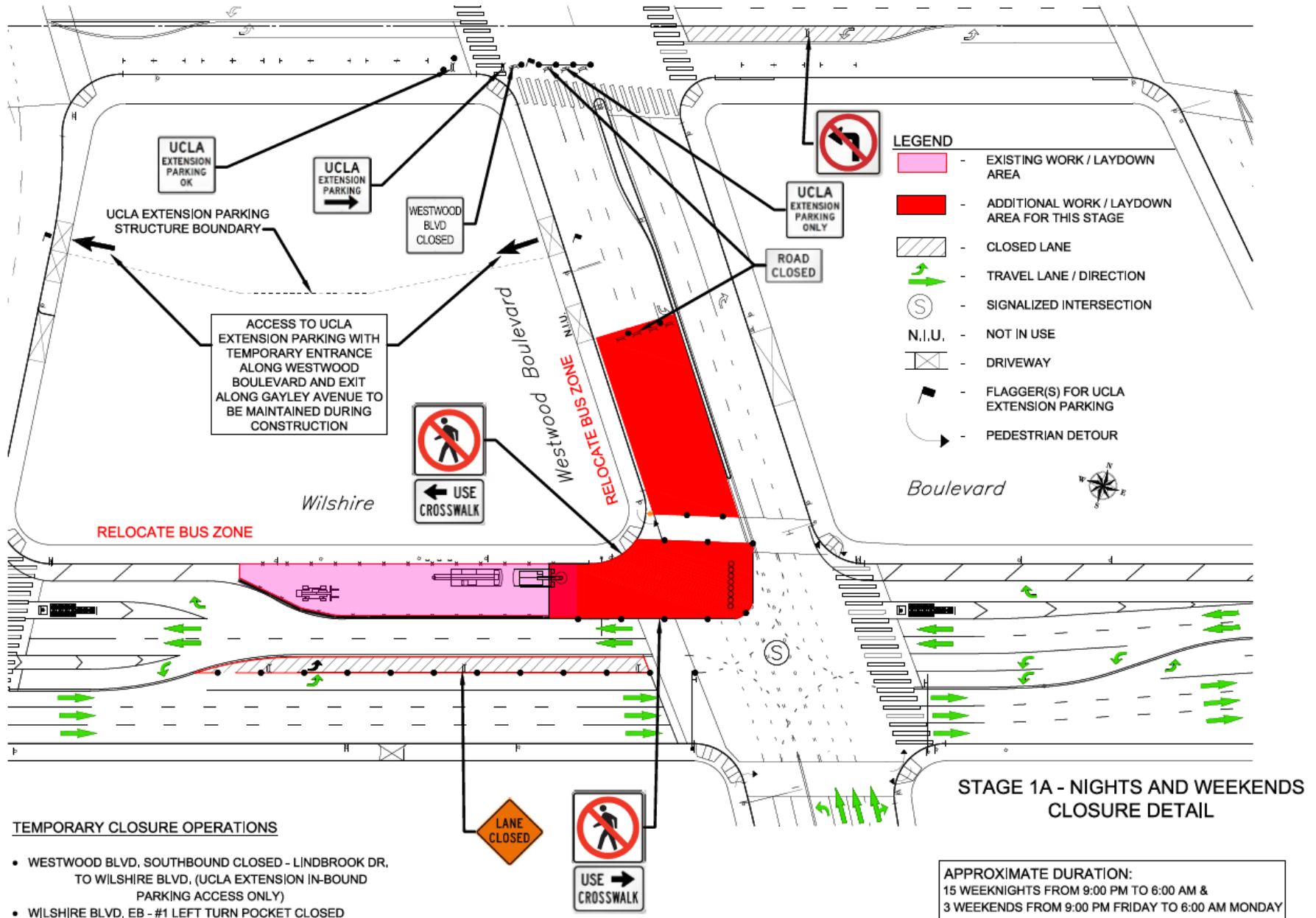


- LEGEND**
-  - WORK / LAYDOWN AREA
 -  - TRAVEL LANE / DIRECTION
 -  - SIGNALIZED INTERSECTION
 -  - DRIVEWAY

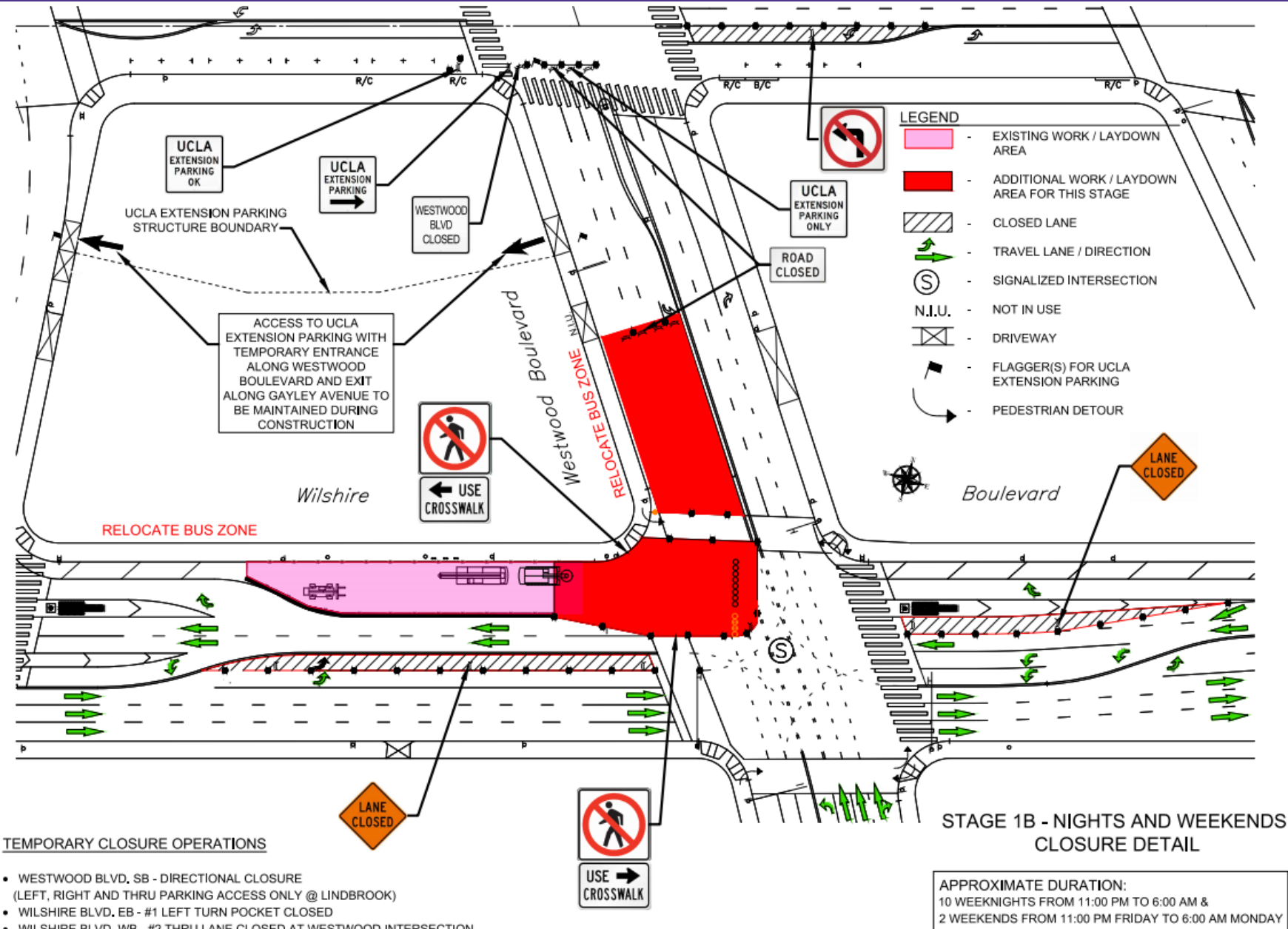
TRAFFIC CONTROL FOR STAGE 1

APPROXIMATE DURATION: 7 WEEKS
HOURS: 24/7

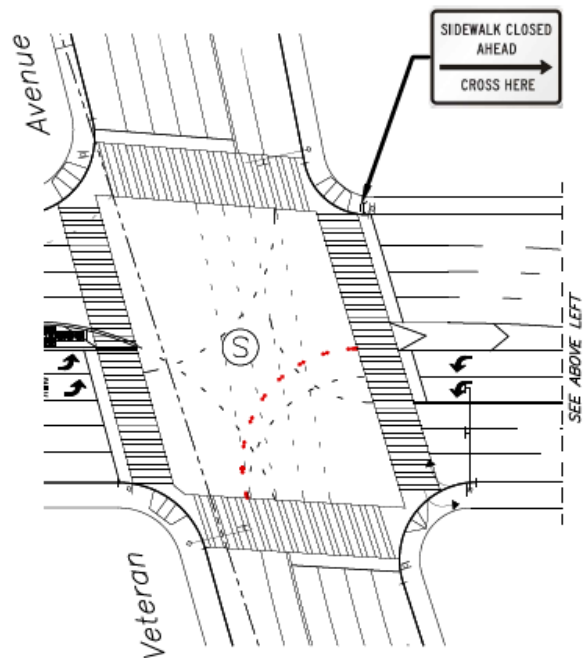
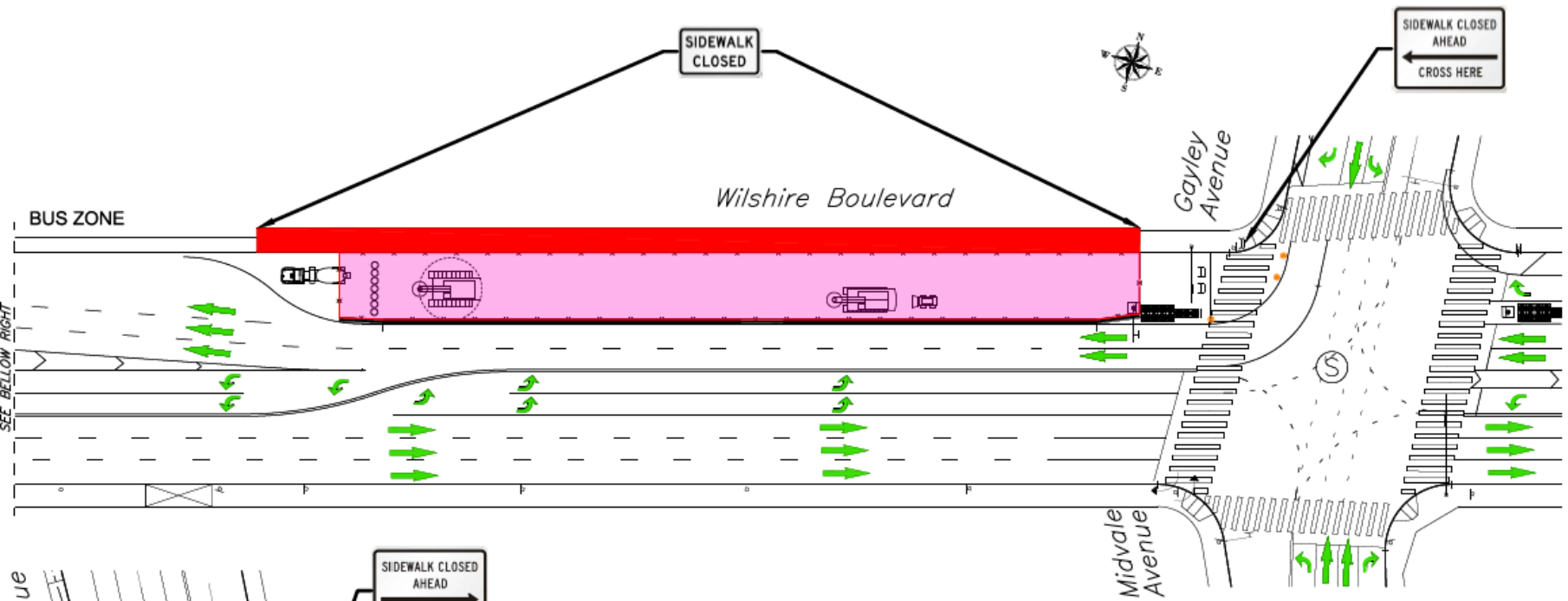
End-Wall Piling



End-Wall Piling









End-Wall Piling



STAGE 1C - SIDEWALK CLOSURE

APPROXIMATE DURATION: 5 DAYS
HOURS: 24/7

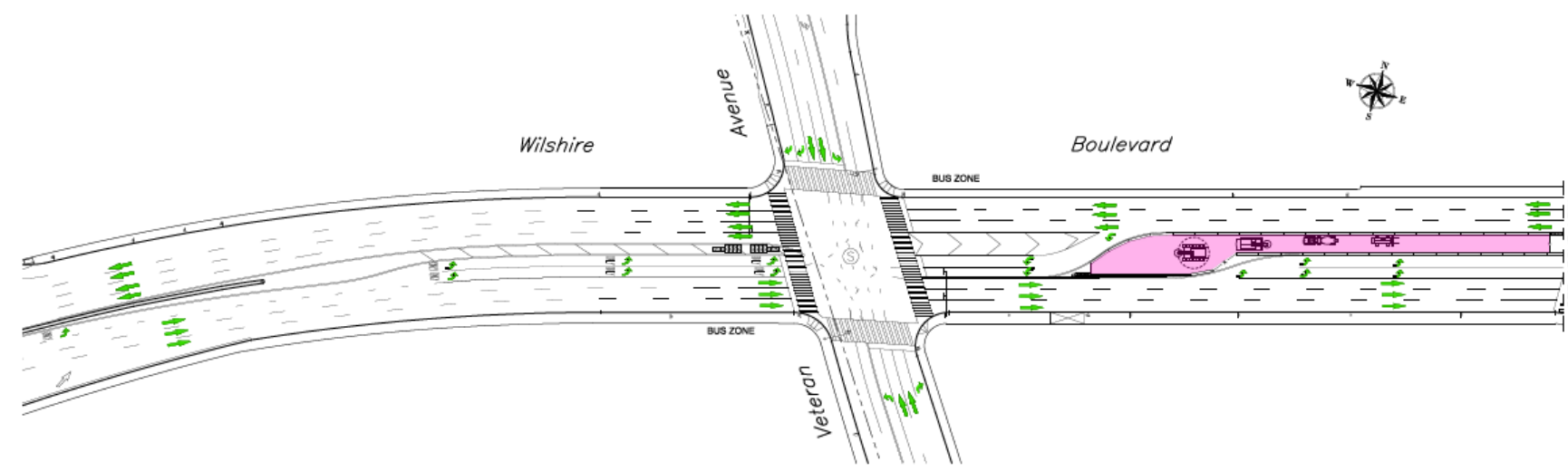
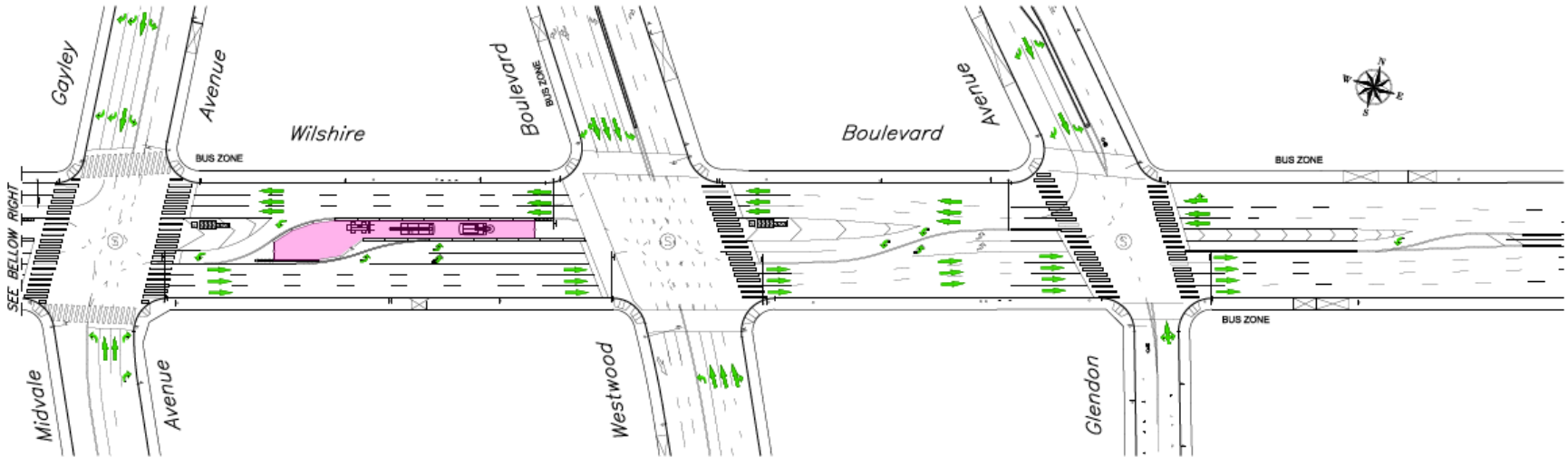
LEGEND





-  - EXISTING WORK / LAYDOWN AREA
-  - ADDITIONAL WORK / LAYDOWN AREA FOR THIS STAGE
-  - TRAVEL LANE / DIRECTION
-  - SIGNALIZED INTERSECTION
-  - DRIVEWAY
-  - PEDESTRIAN DETOUR

TEMPORARY CLOSURE OPERATIONS

- WILSHIRE BLVD. SIDEWALK CLOSED WEST OF GAYLEY AVE.

End-Wall Piling

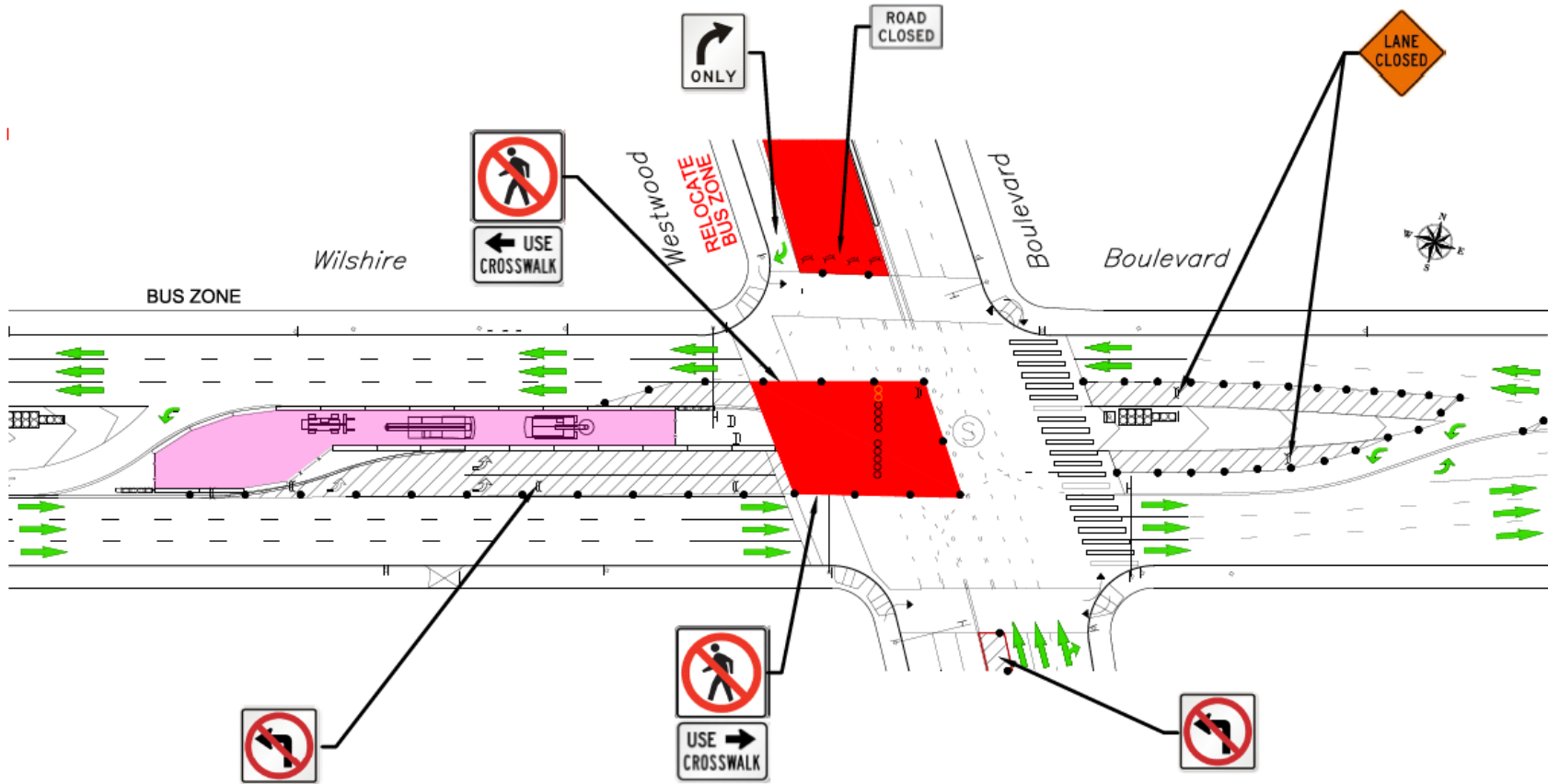


- LEGEND**
-  - WORK / LAYDOWN AREA
 -  - TRAVEL LANE / DIRECTION
 -  - SIGNALIZED INTERSECTION
 -  - DRIVEWAY








TRAFFIC CONTROL FOR STAGE 2

APPROXIMATE DURATION: 12 WEEKS
HOURS: 24/7

End-Wall Piling



LEGEND

-  - EXISTING WORK / LAYDOWN AREA
-  - ADDITIONAL WORK / LAYDOWN AREA FOR THIS STAGE
-  - CLOSED LANE
-  - TRAVEL LANE / DIRECTION
-  - SIGNALIZED INTERSECTION
-  - DRIVEWAY
-  - PEDESTRIAN DETOUR

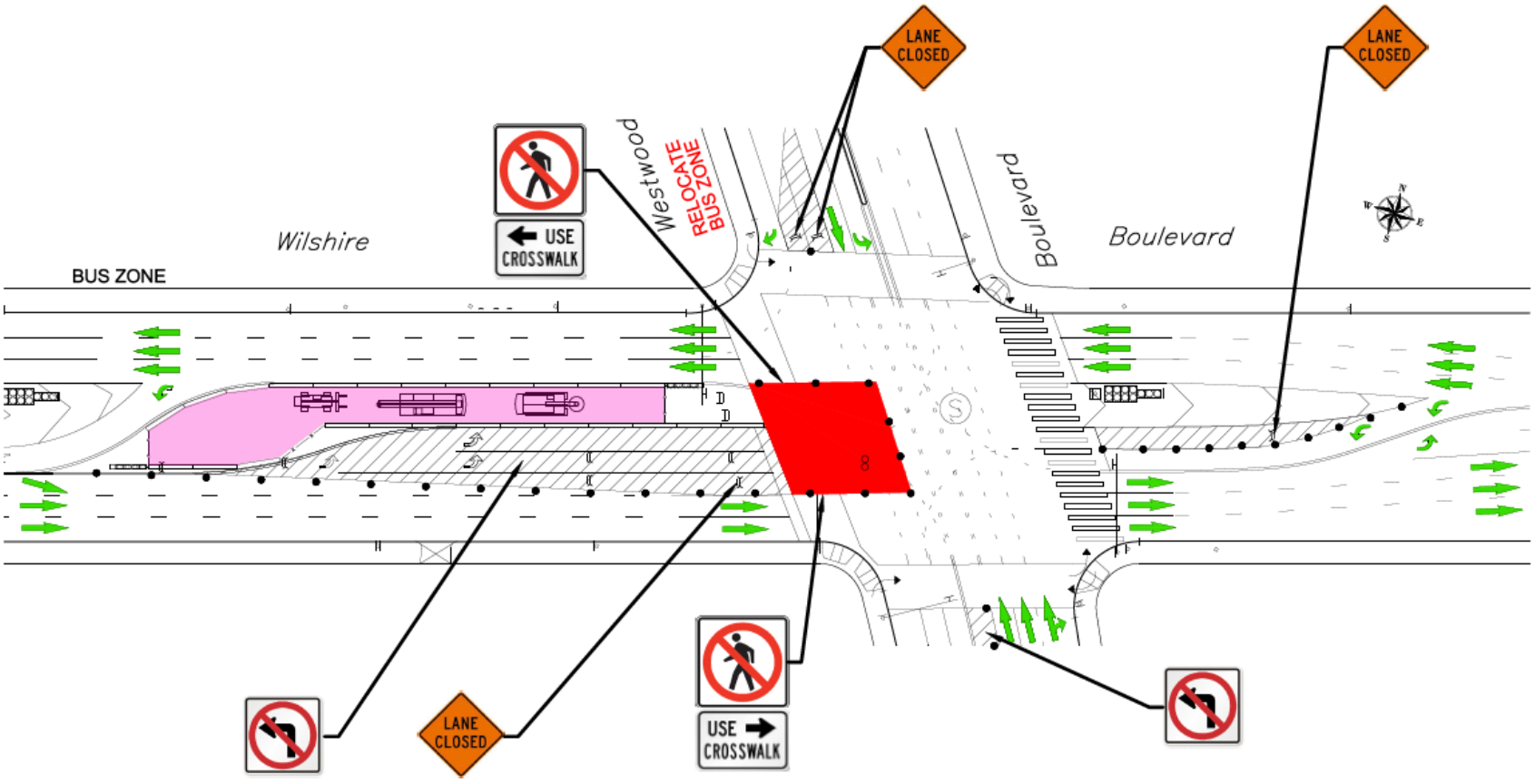
TEMPORARY CLOSURE OPERATIONS

- WESTWOOD BLVD. SB - DIRECTIONAL CLOSURE (RIGHT TURN ONLY @ WILSHIRE BLVD.)
- WESTWOOD BLVD. NB - LEFT TURN POCKET CLOSED
- WILSHIRE BLVD. EB - LEFT TURN POCKETS CLOSED
- WILSHIRE BLVD. WB - #2 LEFT TURN POCKET AND #1 THRU LANE CLOSED

STAGE 2A - NIGHTS AND WEEKENDS CLOSURE DETAIL

APPROXIMATE DURATION:
 20 WEEKNIGHTS FROM 9:00 PM TO 6:00 AM &
 5 WEEKENDS FROM 9:00 PM FRIDAY TO 6:00 AM MONDAY

End-Wall Piling



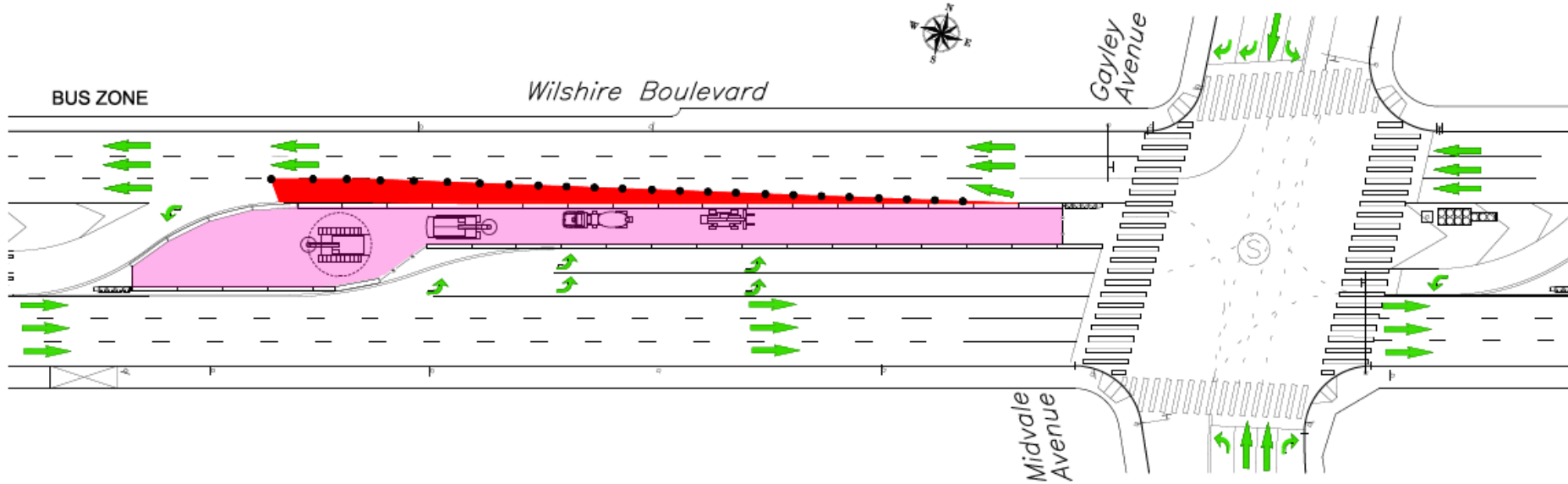
- LEGEND**
- EXISTING WORK / LAYDOWN AREA
 - ADDITIONAL WORK / LAYDOWN AREA FOR THIS STAGE
 - CLOSED LANE
 - TRAVEL LANE / DIRECTION
 - SIGNALIZED INTERSECTION
 - DRIVEWAY
 - PEDESTRIAN DETOUR

- TEMPORARY CLOSURE OPERATIONS**
- WESTWOOD BLVD, SB - #2 & #3 THRU LANES CLOSED
 - WESTWOOD BLVD, NB - LEFT TURN POCKET CLOSED
 - WILSHIRE BLVD, EB - LEFT TURN POCKETS CLOSED
 - WILSHIRE BLVD, EB - #1 THRU LANE CLOSED AT WESTWOOD BLVD. INTERSECTION
 - WILSHIRE BLVD, WB - #1 LEFT TURN POCKET

STAGE 2B - NIGHTS AND WEEKENDS CLOSURE DETAIL

APPROXIMATE DURATION:
 15 WEEKNIGHTS FROM 9:00 PM TO 6:00 AM &
 4 WEEKENDS FROM 9:00 PM FRIDAY TO 6:00 AM MONDAY

End-Wall Piling



LEGEND

- EXISTING WORK / LAYDOWN AREA
- ADDITIONAL WORK / LAYDOWN AREA FOR THIS STAGE
- ↑
 - TRAVEL LANE / DIRECTION
- S - SIGNALIZED INTERSECTION
- DRIVEWAY

TEMPORARY CLOSURE OPERATIONS

- WILSHIRE BLVD, WB - #1 THRU LANE CLOSED

STAGE 2C - WEEKENDS CLOSURE DETAIL

APPROXIMATE DURATION:
2 WEEKENDS FROM 9:00 PM FRIDAY TO 6:00 AM MONDAY

Westwood/VA Hospital

Current Station Rendering



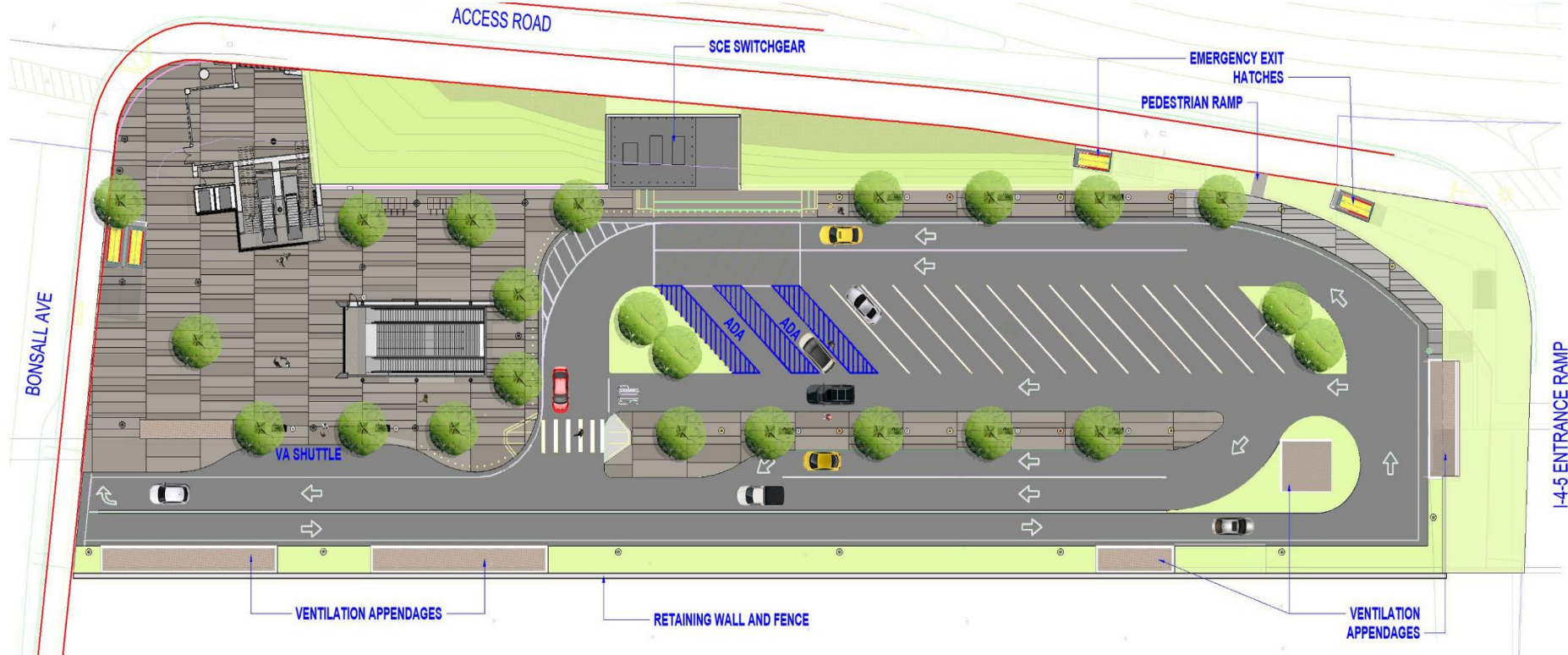
3-D Rendering Westwood/VA Station

View from Bonsall Ave - North to South



Passenger Pick-up/Drop-off

Current Design



- Short term passenger drop-off and pick up (15-30 minutes max)
- Designed to minimize traffic congestion while maintaining pedestrian and commuter access

Westwood/VA Hospital Station Box

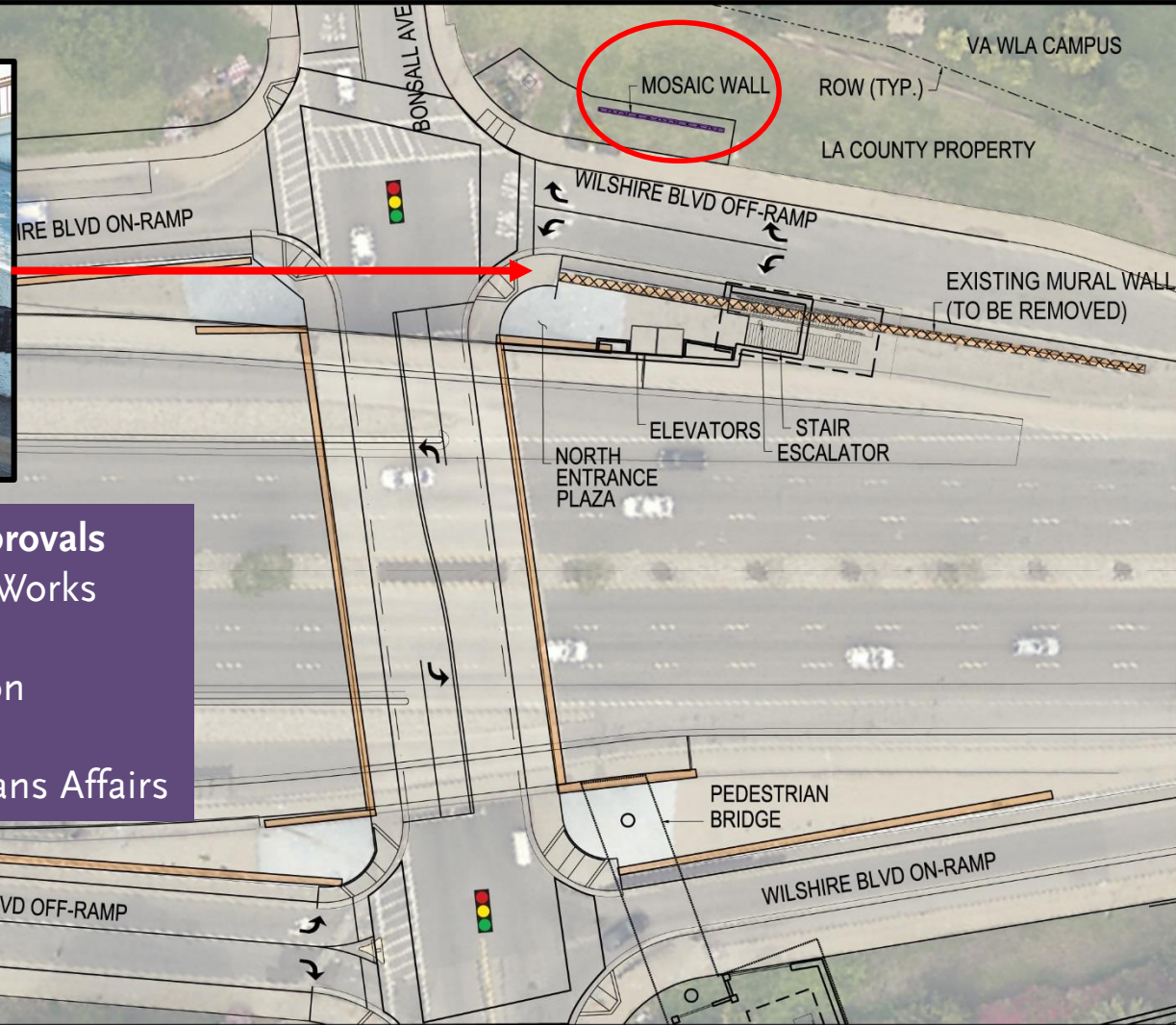


Rendering shows length of the underground station box on Wilshire Bl and Bonsall Av

VA Hospital Station

Mural

** Subject to change*



Proposed Schedule for County Approvals

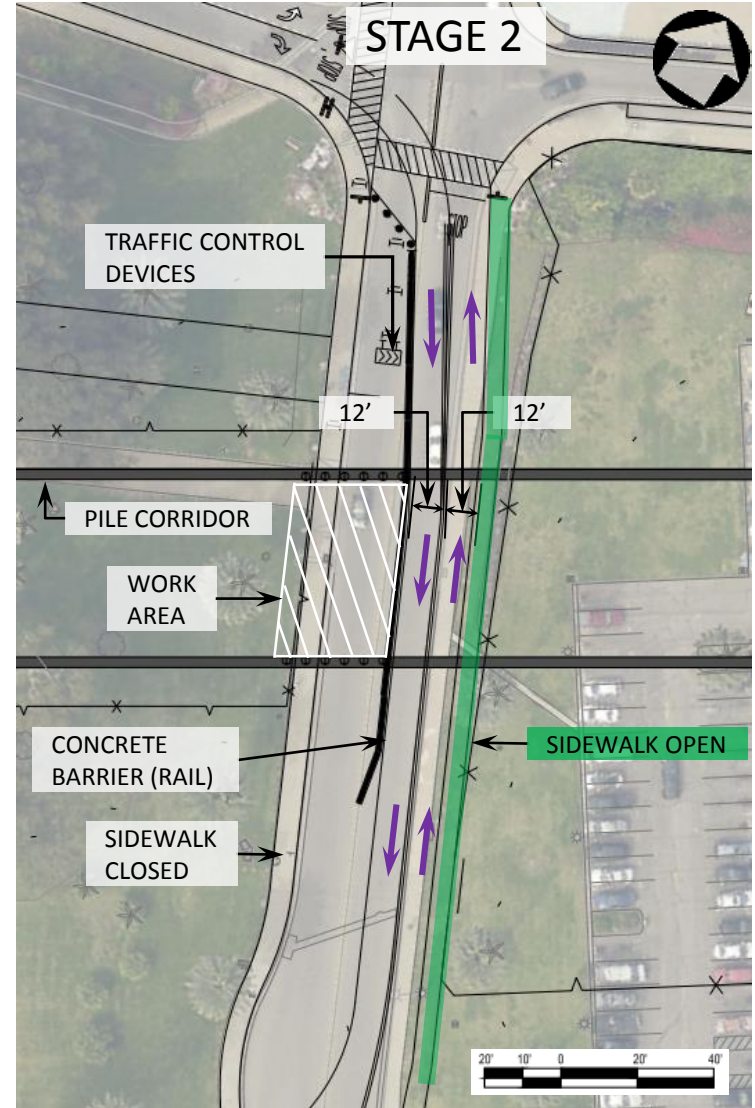
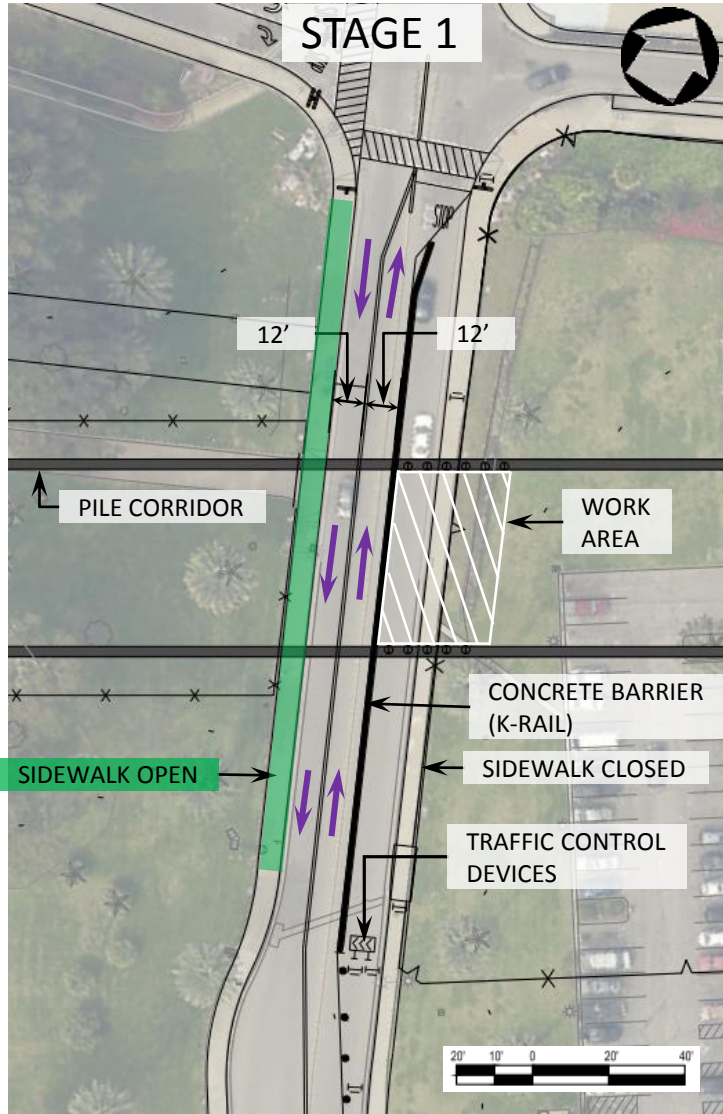
- January: Department of Public Works
- February: Civic Art Committee
- March: County Arts Commission
- May: Board of Supervisors
- July: Dept of Military and Veterans Affairs

LEGEND: MURAL TO BE RETAINED PROPOSED MOSAIC WALL RIGHT-OF-WAY PROPOSED NEW TRAFFIC SIGNAL MURAL TO BE REMOVED STREET CENTERLINE



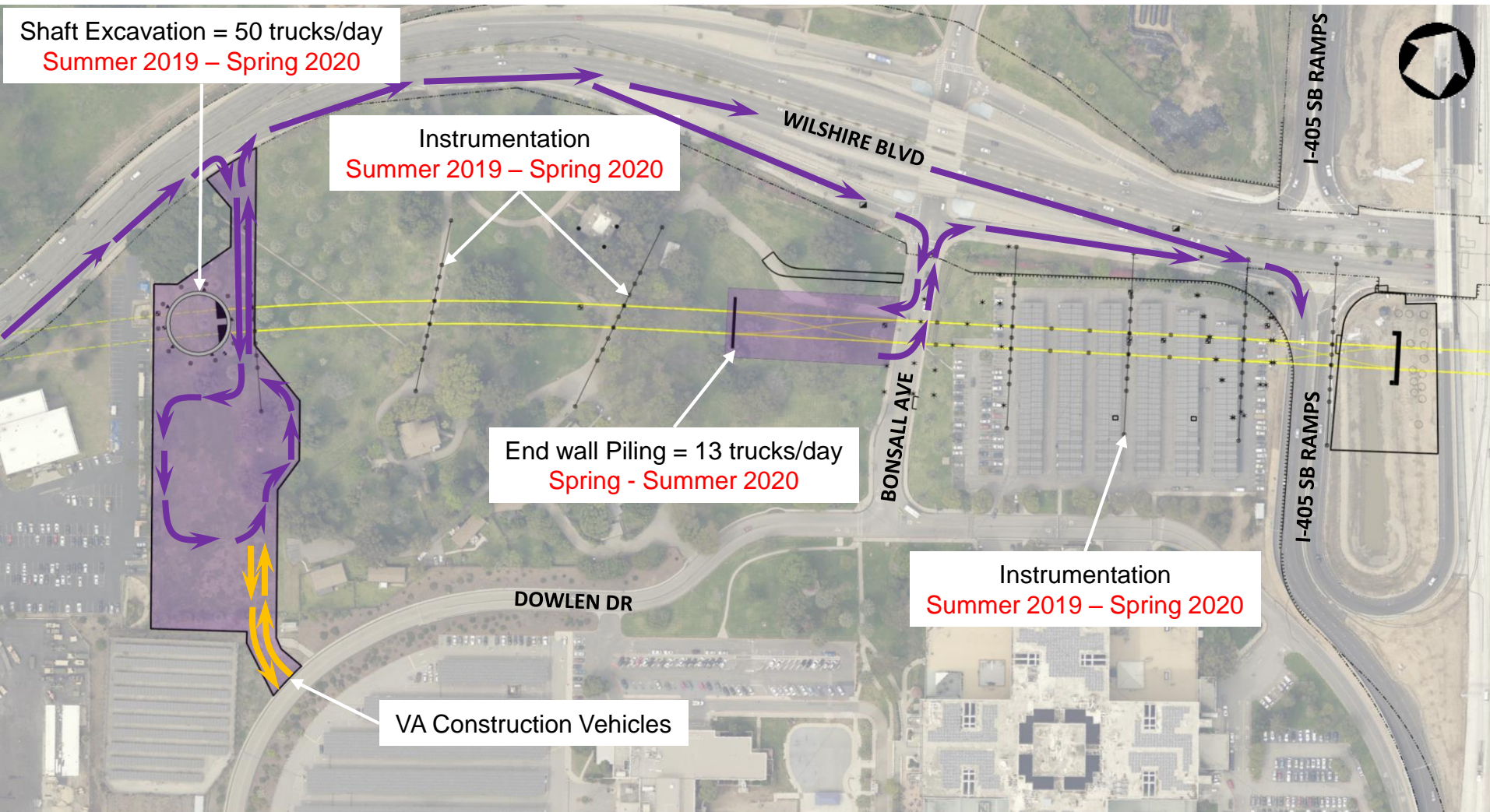
Pedestrian and Vehicular Access to Bonsall Avenue Maintained

** Subject to change*



Stage 1 – Major Truck Trips

** Subject to change*



Station/TBM Power Connection

Upcoming SCE Underground Electrical Work

Anticipated start: Spring 2019

Anticipated completion: Spring 2020

Weekdays

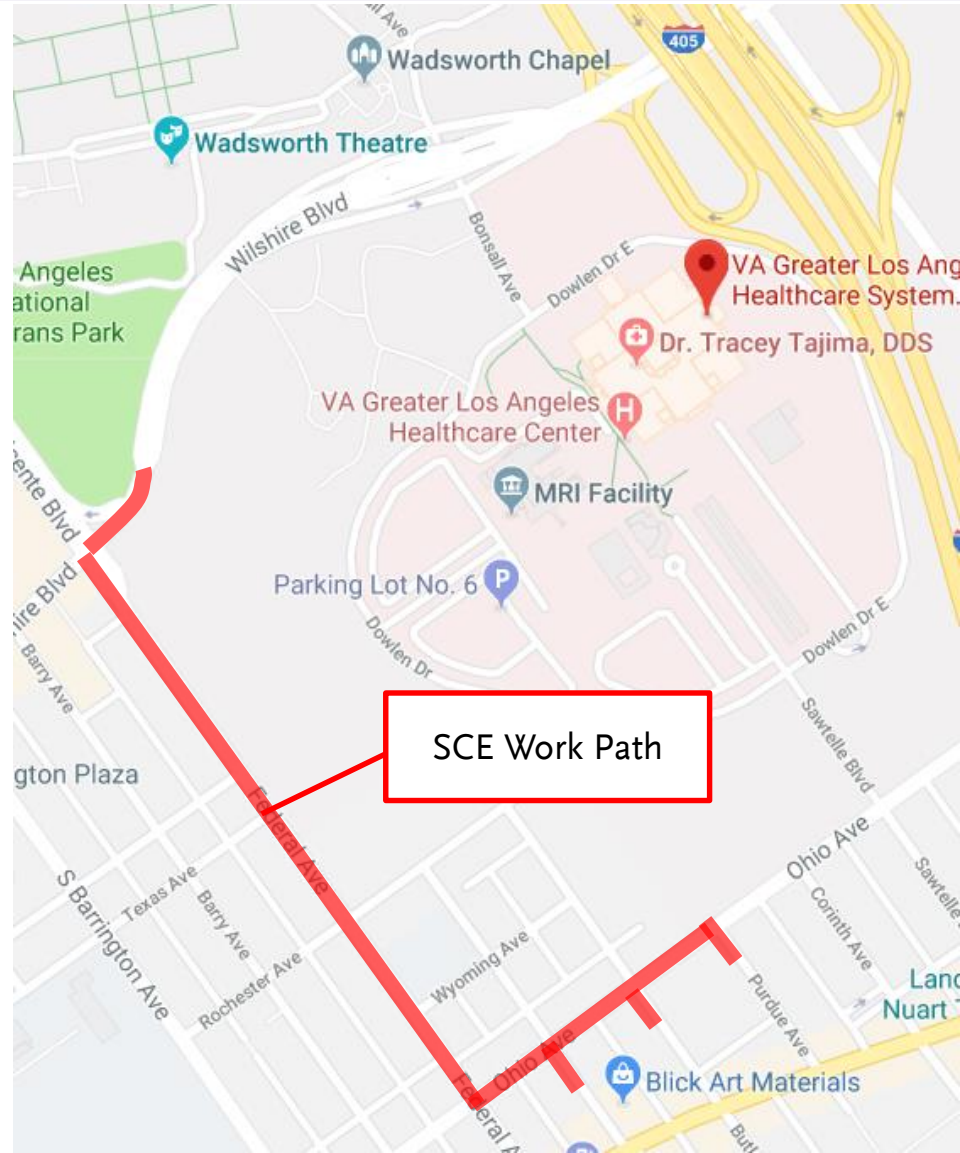
- Ohio/Federal: 6:00am – 4:00pm
- Wilshire Bl: 9:00pm – 6:00am

Weekends

- Ohio/Federal: 8:00am – 9:00pm
- Wilshire Bl: 9:00pm – 6:00am
- Intermittent lane closures
- Temporary parking restrictions and possible detours



**Hours subject to change*



Station/TBM Power Connection

Upcoming SCE Underground Electrical Work

- Work begins at Purdue Av and Ohio Av, east to west
- System upgrade work is planned to be completed sequentially, one-block increments
- Intermittent parking restrictions and traffic detours expected
- Some left turn restrictions will be enforced with Traffic Control Officers



SCE Potholing/ Utility Investigation



Potholing near Ohio & Federal is complete

Tunnel Subsurface Easements

The standard tunnel subsurface easement is a rectangular box surrounding both tunnels

- 10 ft. above the tunnel crown and 10 ft. below the tunnel invert
- 5 ft. offset from the outer most tunnel wall



Existing Ground

The tunnel boring machine will be under individual parcels for approximately 2-3 days for each tunnel

Tunnel Boring Machine drives for each tunnel will be staggered by approximately 1-2 months

Operation of the subway tunnels are designed to avoid adverse noise/vibration to the occupants

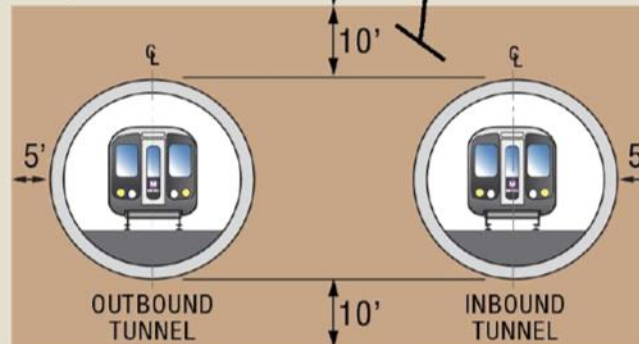
50' – 160'
Typical Depth

Tunnel
Subsurface
Easement

The tunnels have been designed to accommodate the existing building(s)

Future construction above the tunnels which requires excavation will be subject to Metro's review and approval which shall not be unreasonably withheld

The tunnels will be excavated by an Earth Pressure Balance Tunnel Boring Machine; this type of machine balances soil and groundwater pressure at the tunnel face, controlling the ground movement. As the tunnel is excavated, precast concrete segments are immediately installed within the machine to serve as the permanent tunnel lining.



Not to Scale,
Diagram is for
illustrative
purposes only

Metro's Green Construction Policy

Purple Line Extension design-build contractors must adhere to strict guidelines contained in Metro's **Green Construction Policy**.

- Establish haul truck staging zones where least impact on general public
- Covered haul trucks to reduce dust and dirt
- Haul routes away from congested streets or near sensitive receptors
- Off-road diesel-powered equipment of 50 hp and greater must meet the most stringent EPA emission standards
- Restricted idling of construction equipment to a maximum of five consecutive minutes
- On-road diesel vehicles will have newer engine models

Metro Services for Veterans

Metro's Veterans Hiring Initiative Program

- 7% Annual Veteran Hiring Initiative
- Support and promote economic development for veterans
- Attract qualified talent and their spouses for the many positions & apply transferrable skills to Industry
- Leverage those skills, knowledge, & attributes to showcase military experience
- Educate Veteran Community of Broad/Diverse Opportunities
- Advocate for Veteran Employees & Jobseekers

Application for Discounted TAP Cards for Service Connected Veterans

Translation of Military Experience into Civilian Job Skills



Next Community Meeting

Section 3

Section 3: Pre-Construction
Community Meeting

Thursday, June 20, 2019

6:30pm – 8pm

Belmont Village Senior Living

10475 Wilshire Bl

Los Angeles, CA 90024

Free on-site parking available



Stay Informed



213.922.6934



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Metro

