

Purple Line Extension

Section 3 Pre-Construction Community Meeting

June 20, 2019



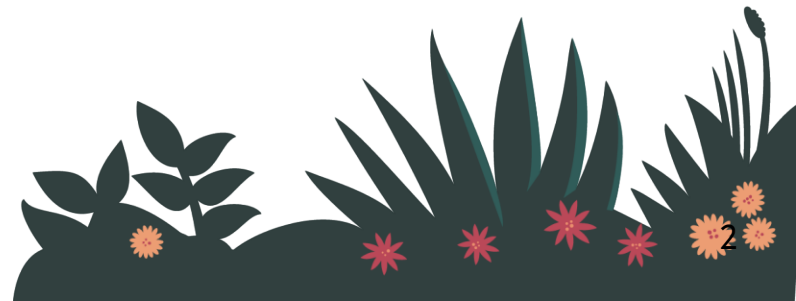
Agenda

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



Metro

- Q&A



Purple Line Extension

Project Alignment



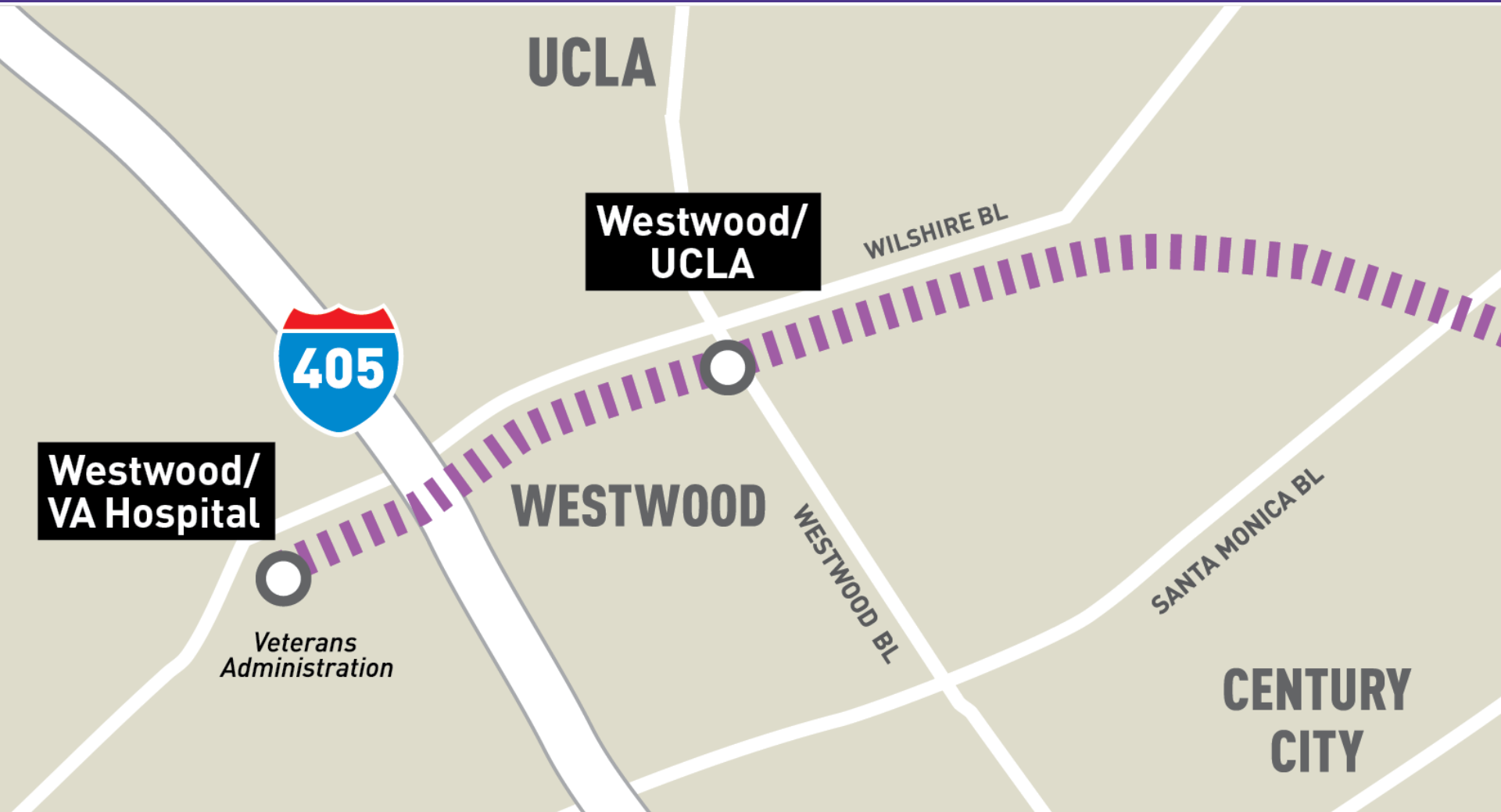
Sections 1, 2 & 3 Status

**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

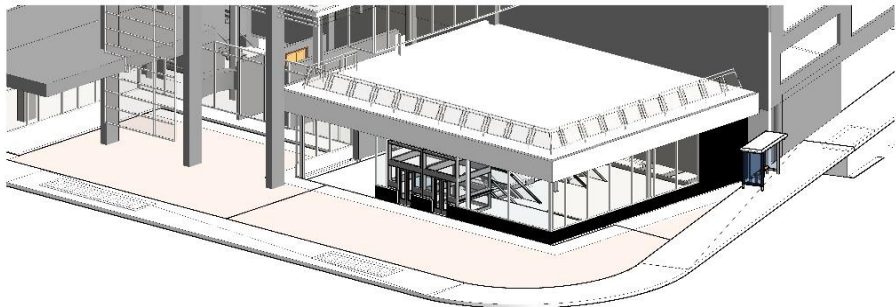
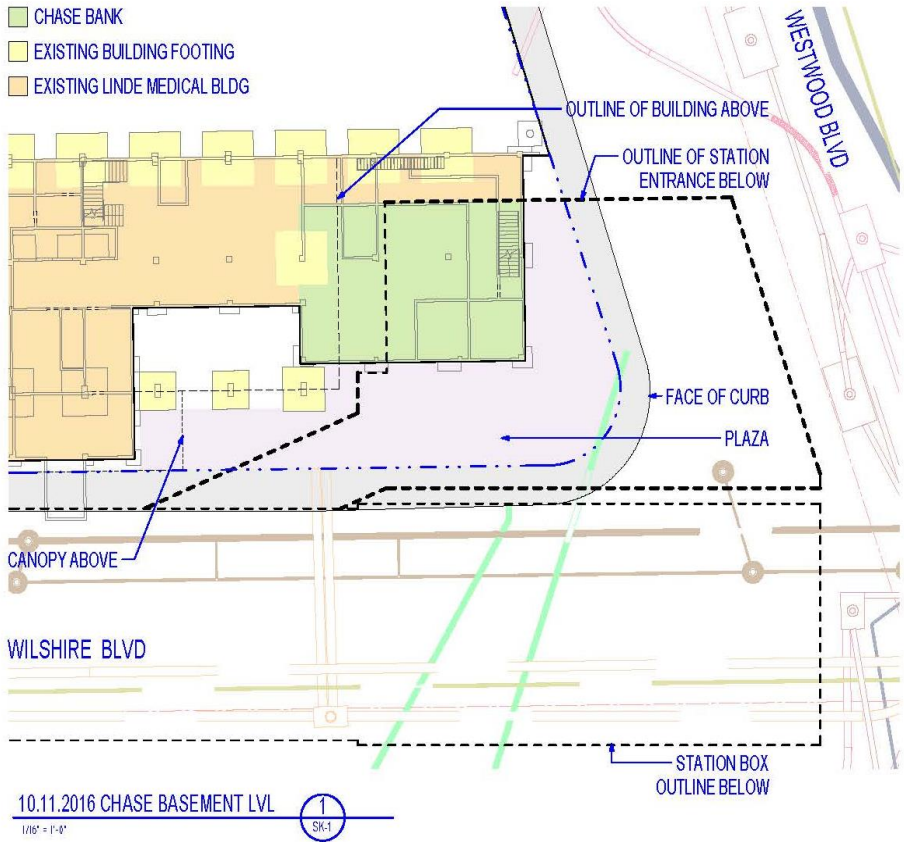
Station Rendering



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 Bl
 - Truck/crew leave and lanes reopen at the end of each work period
 - Noisiest activities include saw-cutting and jack-hammering



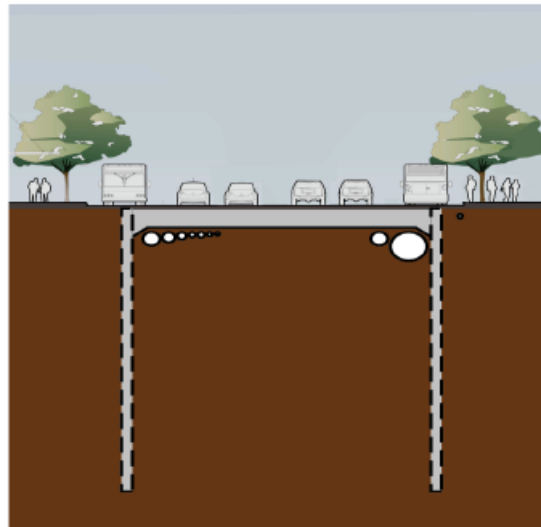
Metro

Advanced Utility Relocation (AUR)

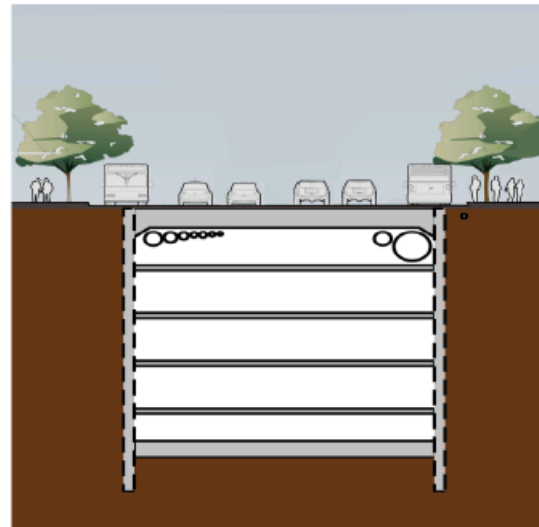
Electrical Vault Installation



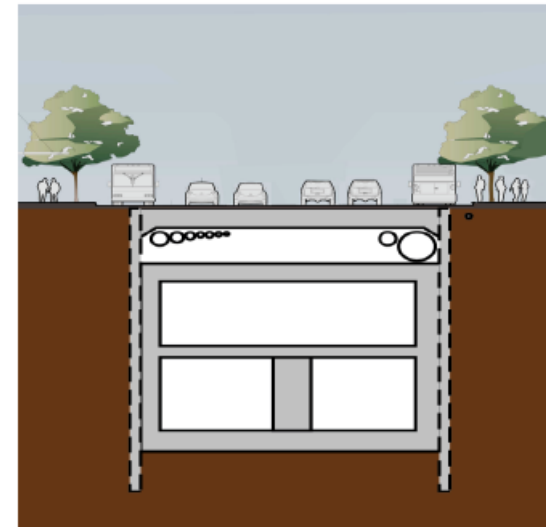
Station Construction Overview



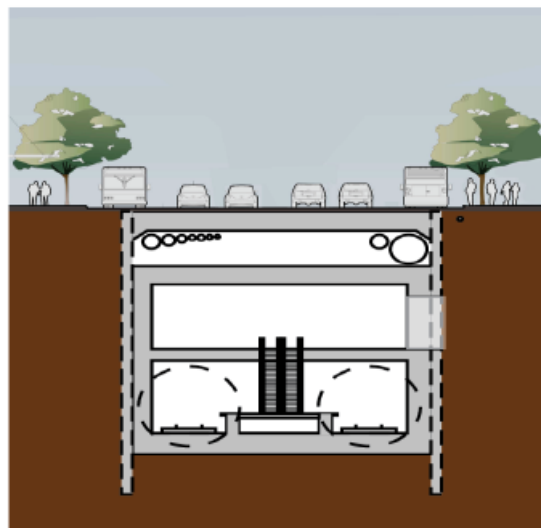
Install Piles and Decking



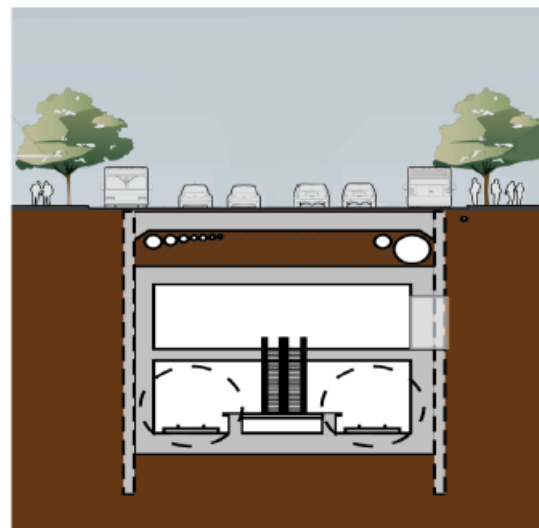
Excavate and Install Supports
(from beneath decking)



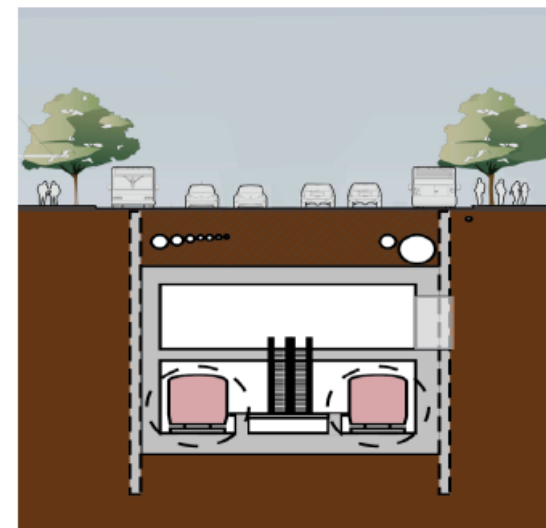
Construct Station Box



Complete Station Box

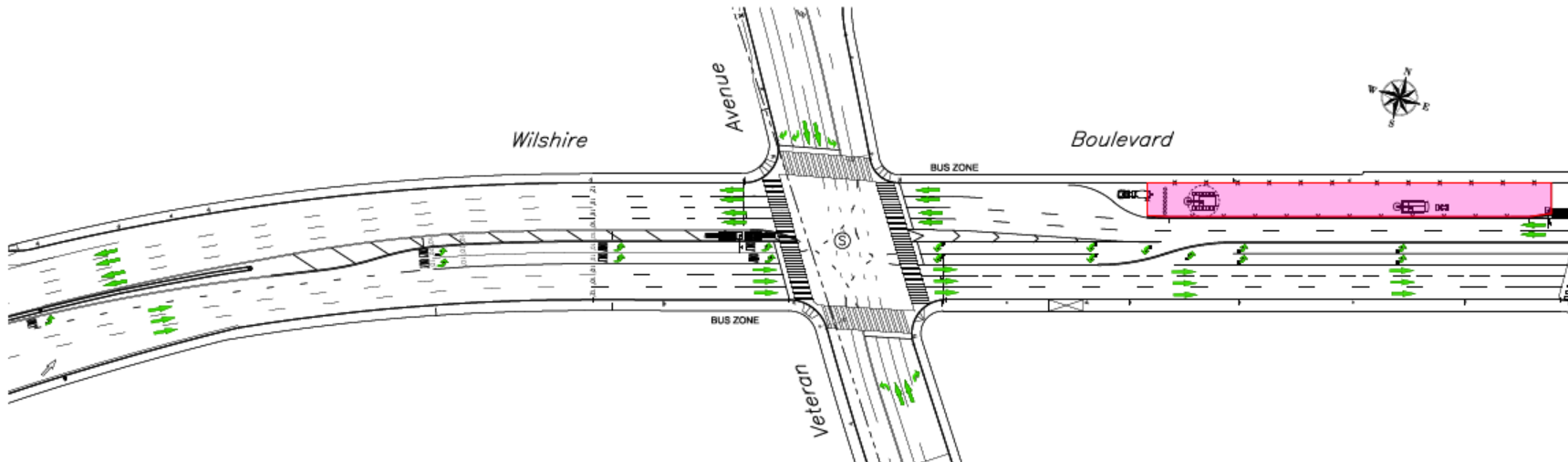
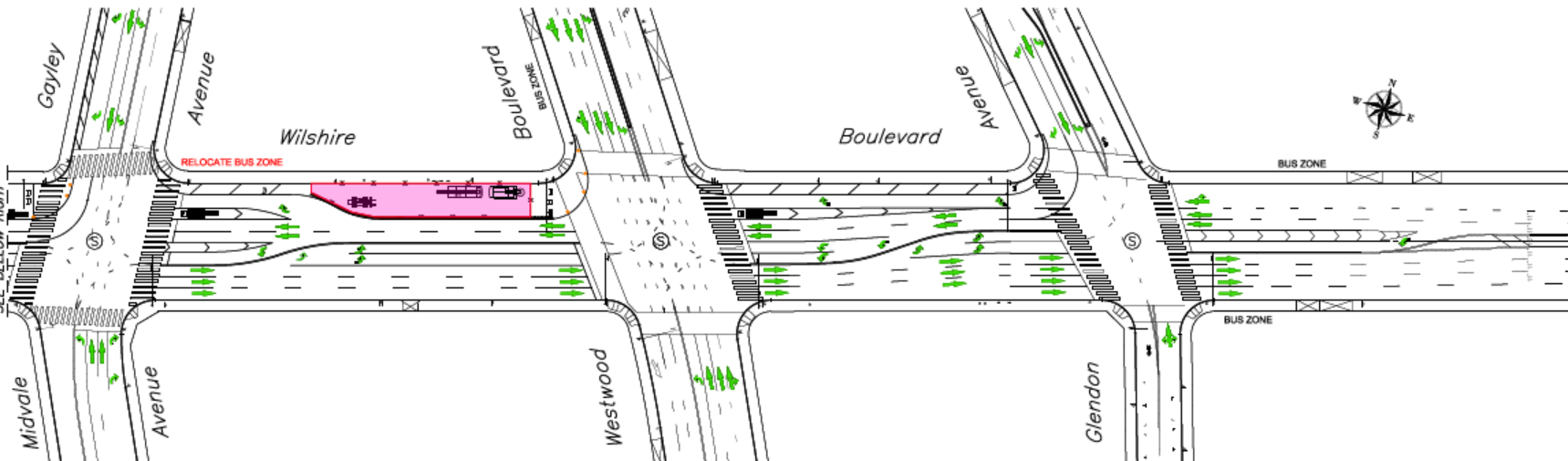






Backfill Above Structure



Remove Decking and
Restore Street

End-Wall Piling

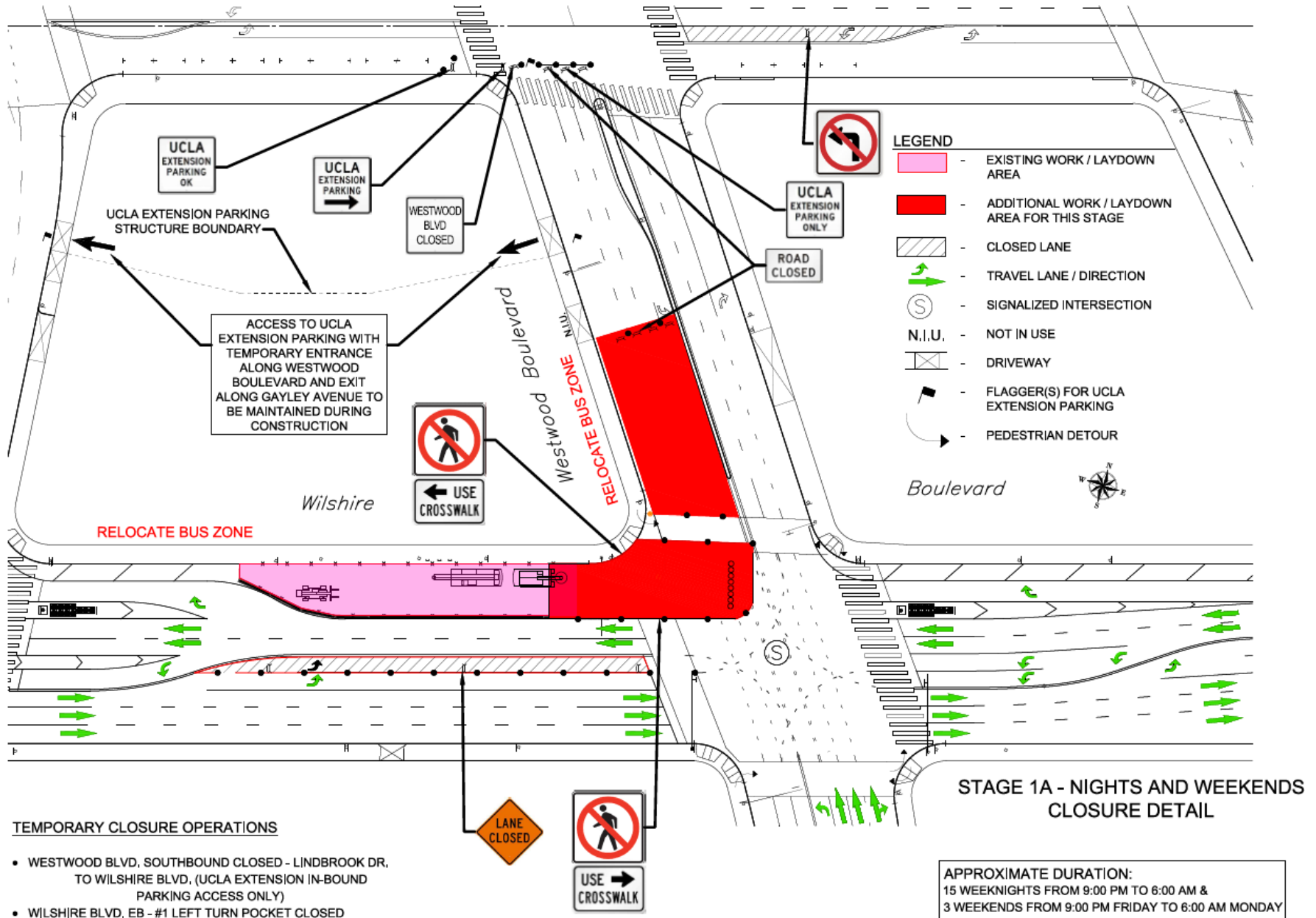


- LEGEND**
-  - WORK / LAYDOWN AREA
 -  - TRAVEL LANE / DIRECTION
 -  - SIGNALIZED INTERSECTION
 -  - DRIVEWAY

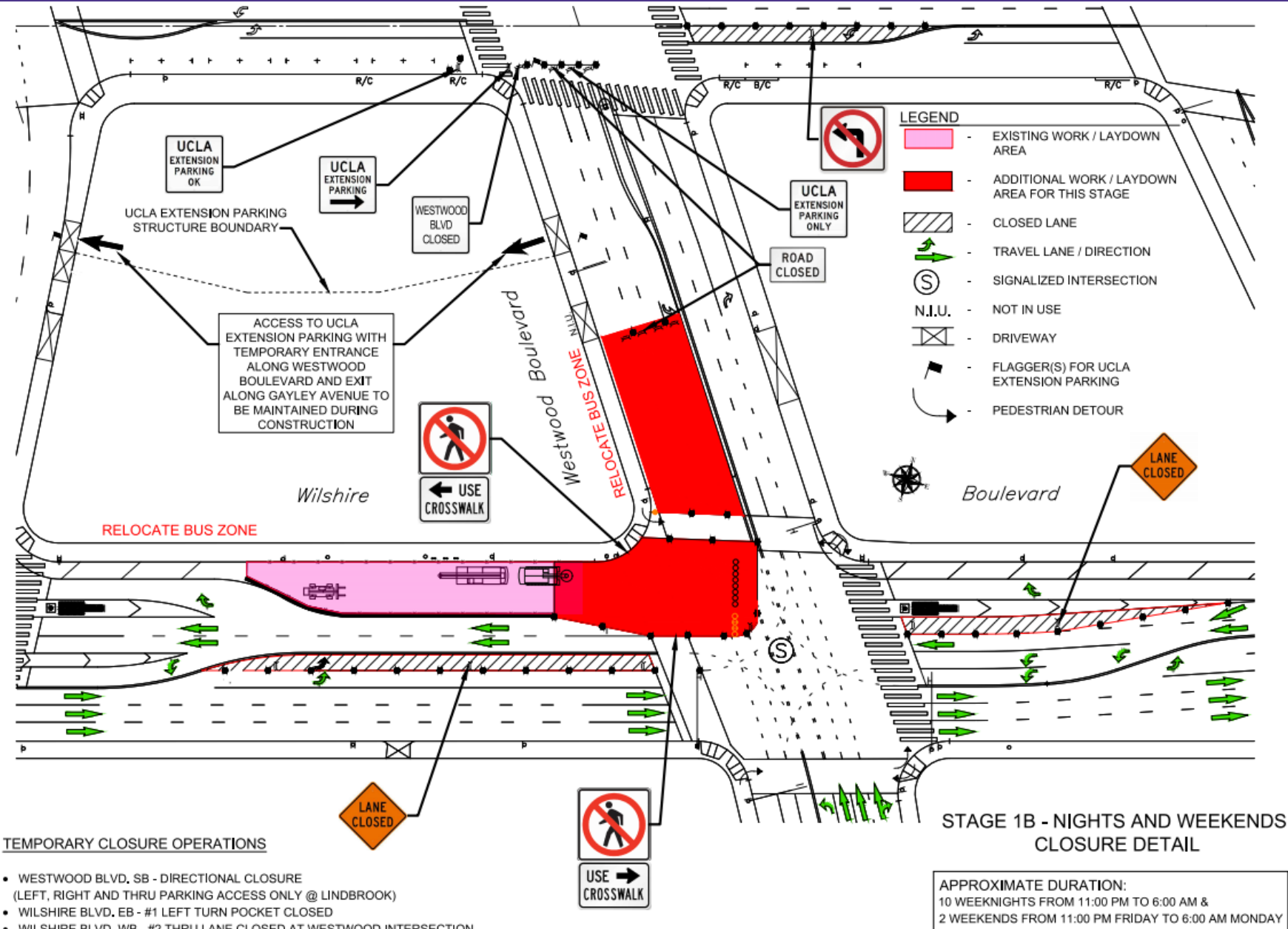
TRAFFIC CONTROL FOR STAGE 1

APPROXIMATE DURATION: 7 WEEKS
HOURS: 24/7

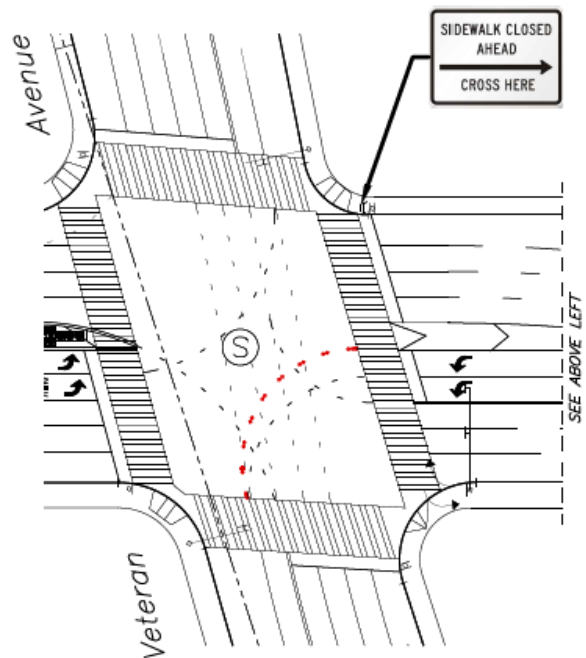
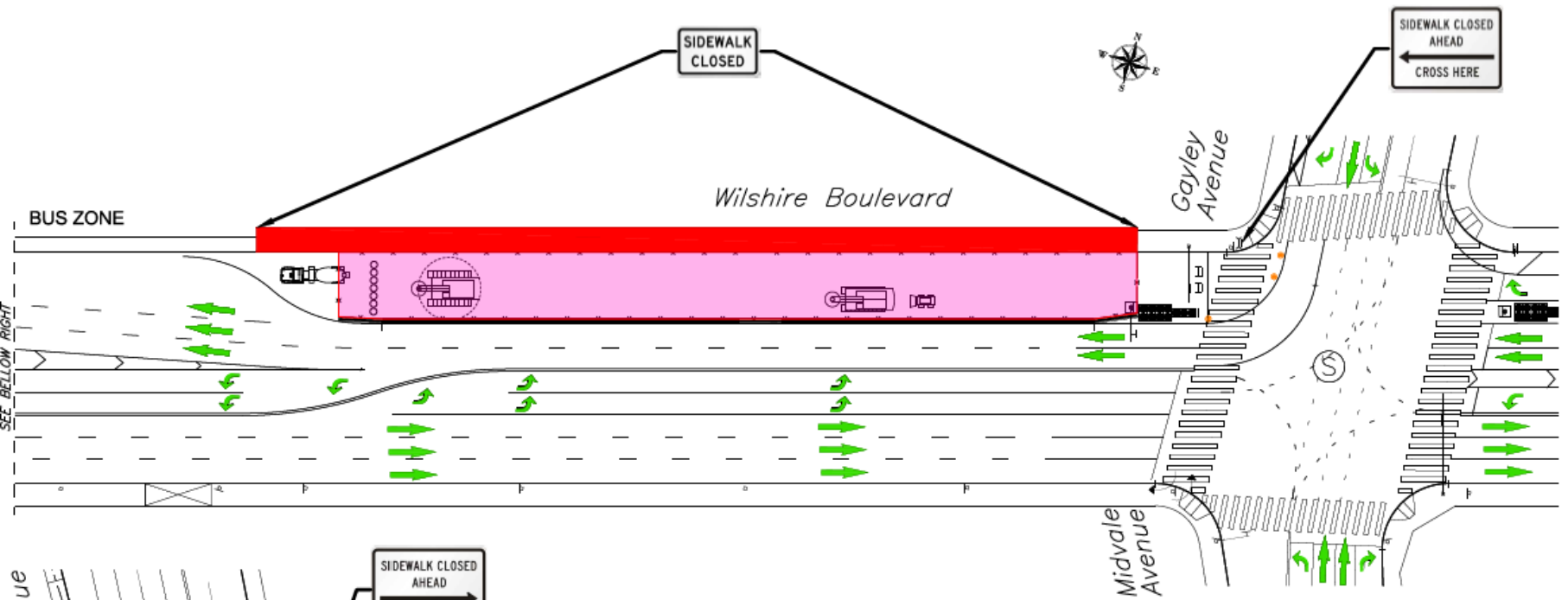
End-Wall Piling



End-Wall Piling









End-Wall Piling



STAGE 1C - SIDEWALK CLOSURE

APPROXIMATE DURATION: 5 DAYS
HOURS: 24/7

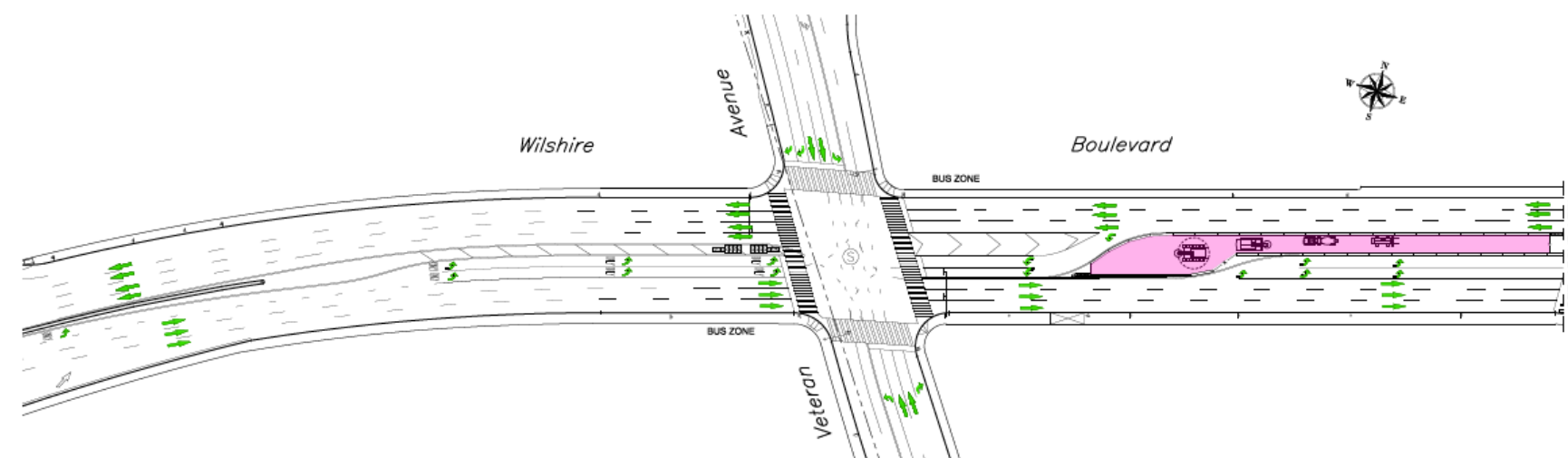
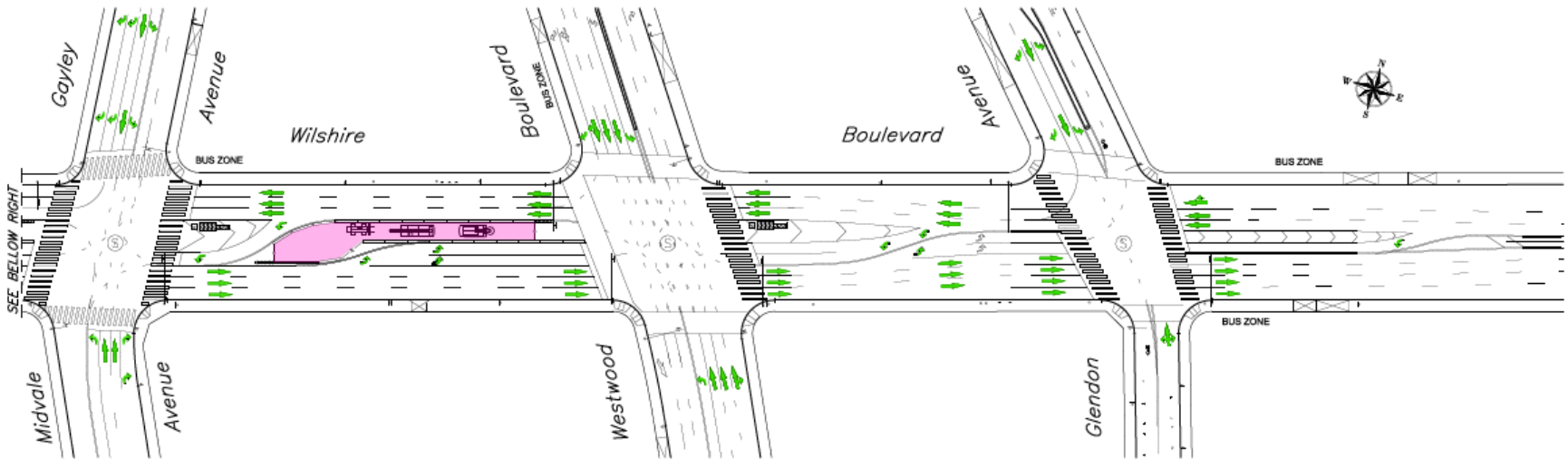
LEGEND





-  - 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

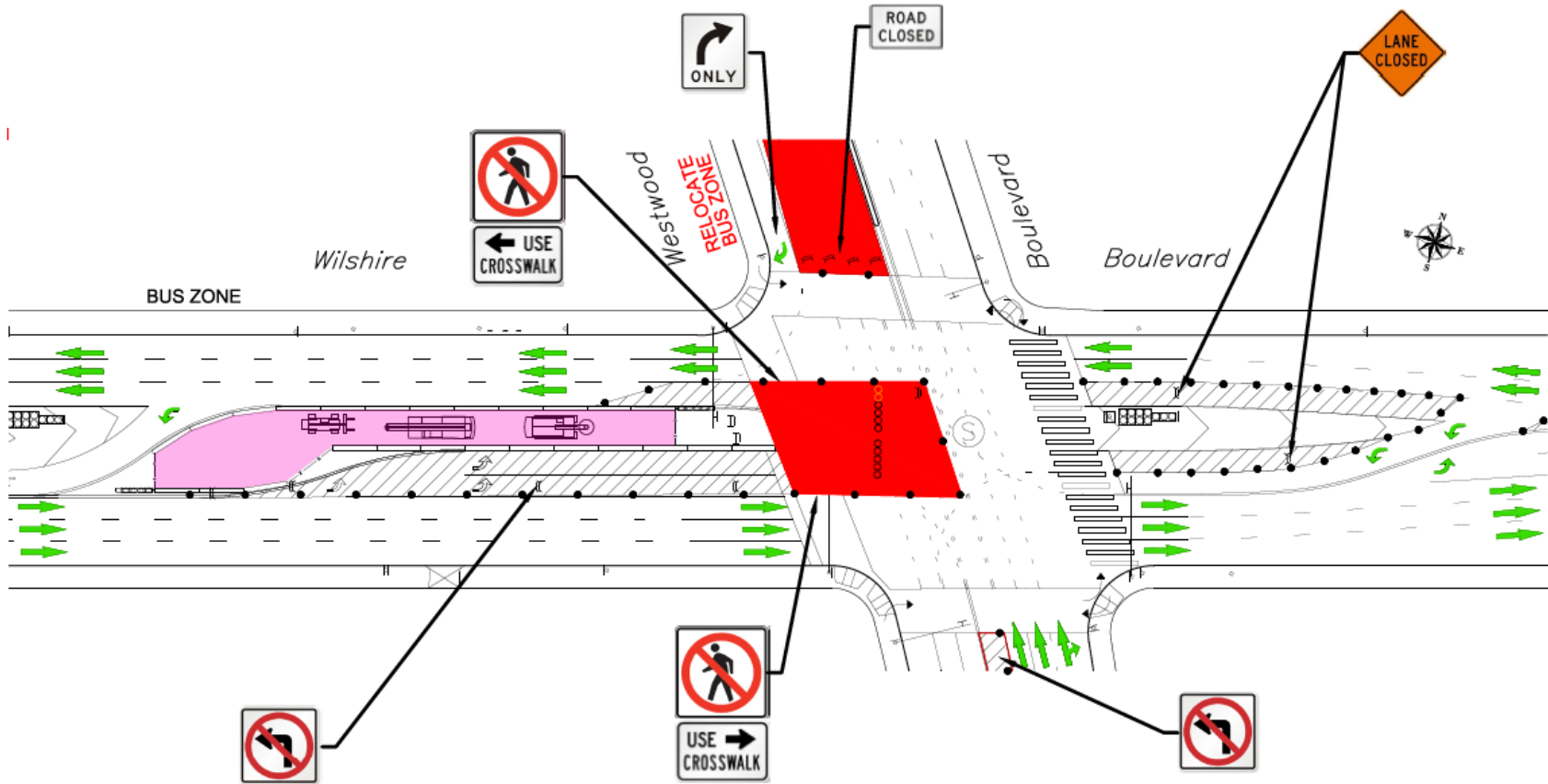


- LEGEND**
-  - WORK / LAYDOWN AREA
 -  - TRAVEL LANE / DIRECTION
 -  - SIGNALIZED INTERSECTION
 -  - DRIVEWAY








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

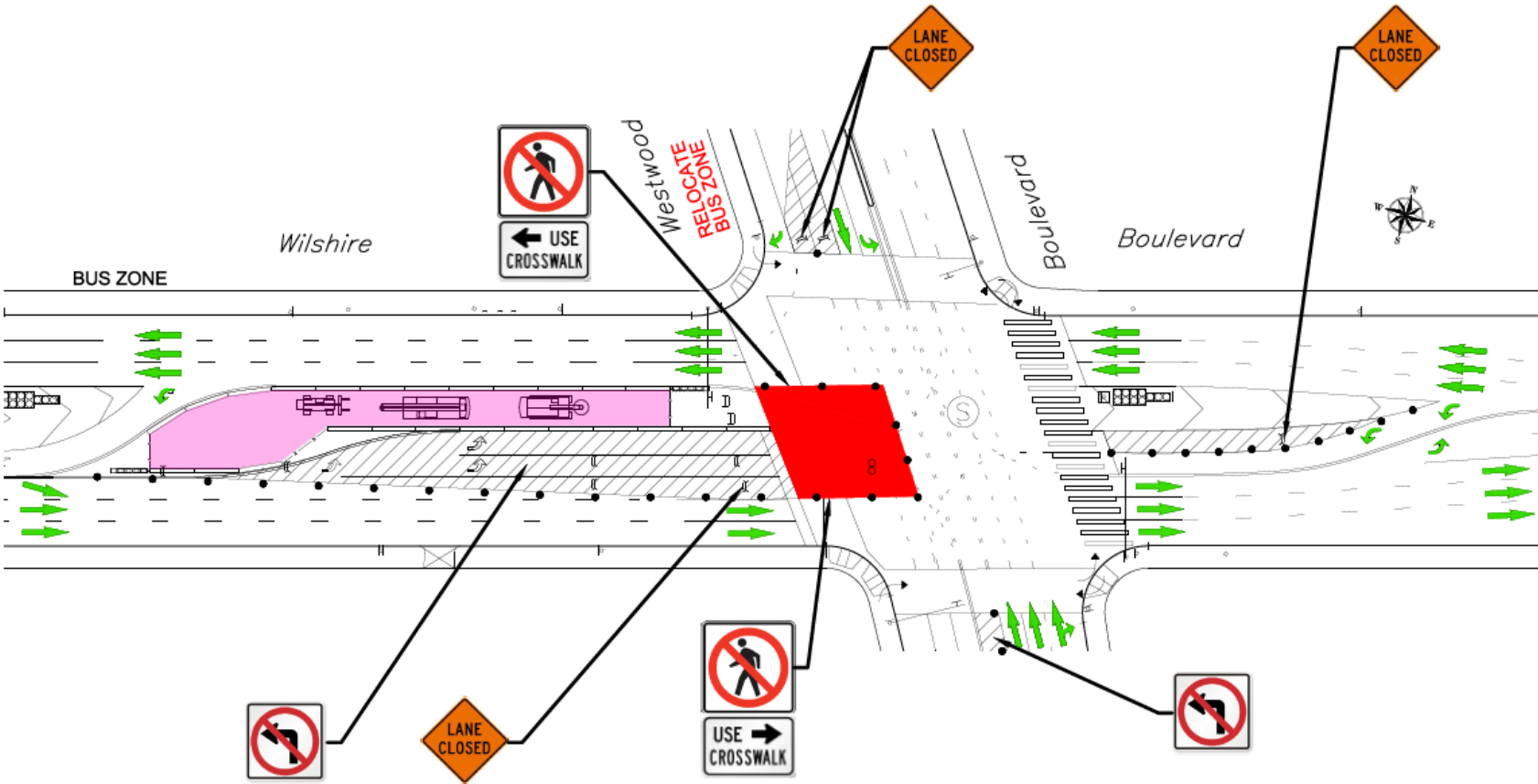
TEMPORARY CLOSURE OPERATIONS

- 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



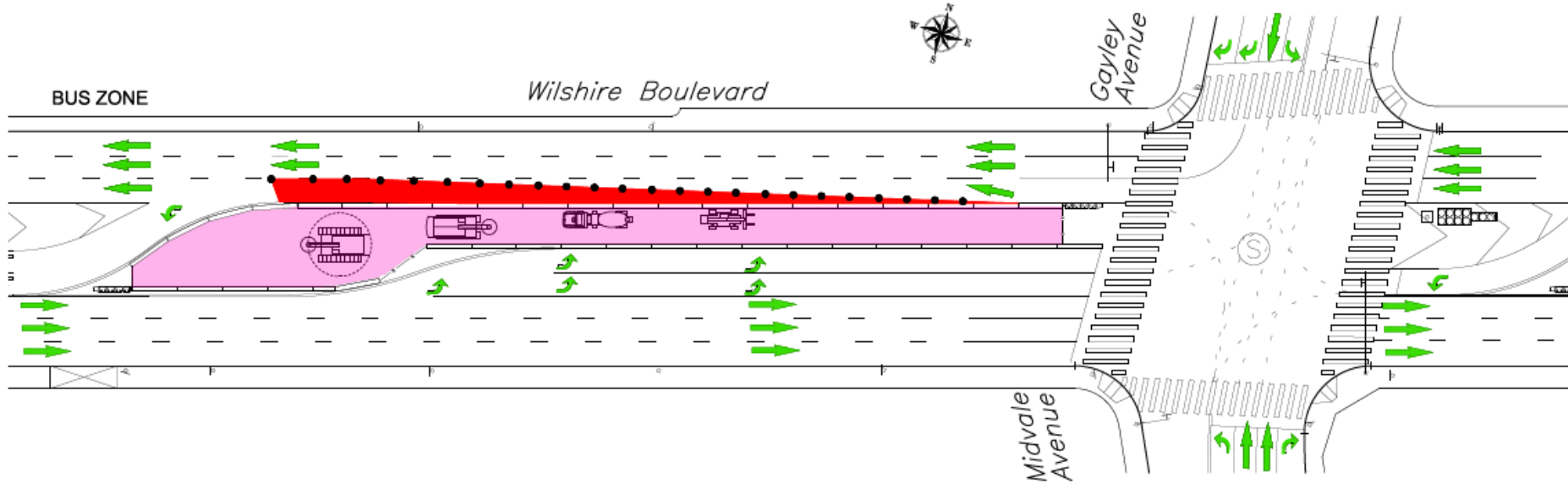
- LEGEND**
- EXISTING WORK / LAYDOWN AREA
 - ADDITIONAL WORK / LAYDOWN AREA FOR THIS STAGE
 - CLOSED LANE
 - TRAVEL LANE / DIRECTION
 - SIGNALIZED INTERSECTION
 - DRIVEWAY
 - PEDESTRIAN DETOUR

- 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
-  - 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



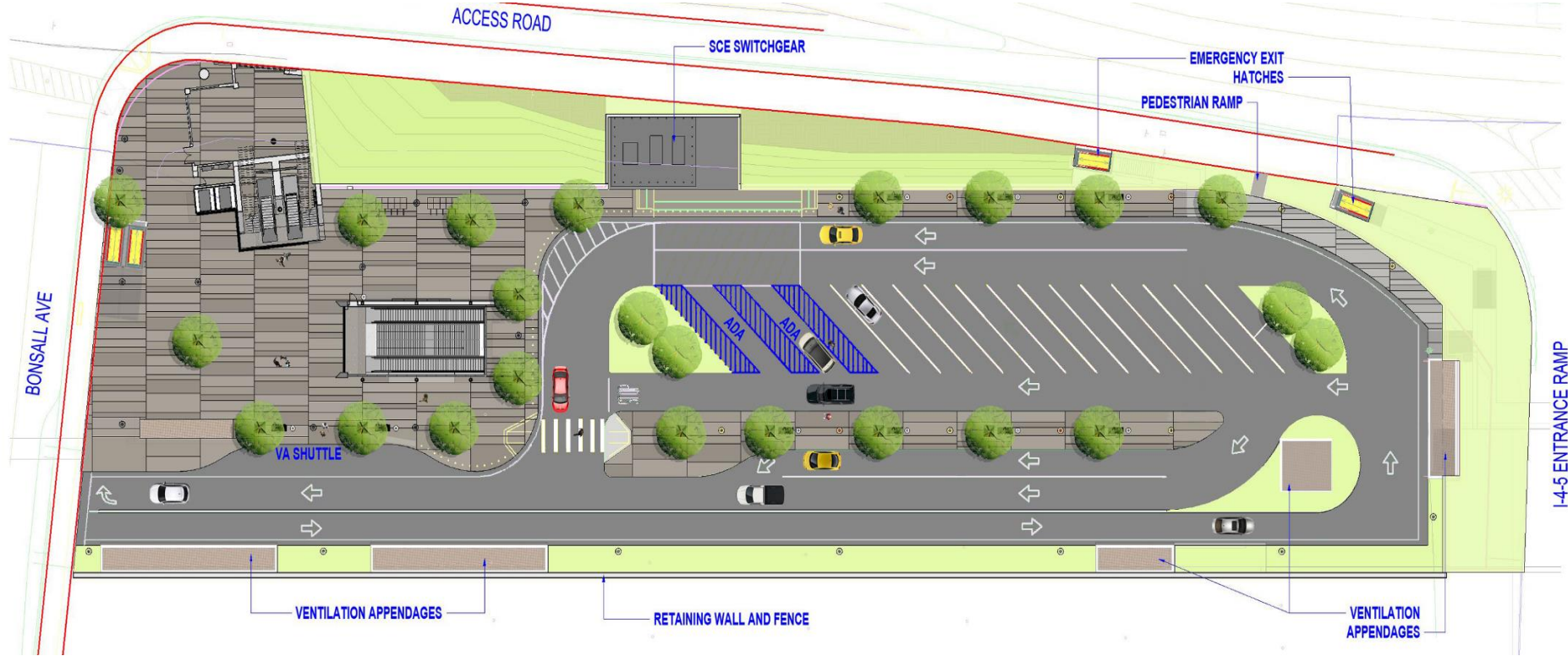
3-D Rendering Westwood/VA Station

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

LEGEND:

- Station Entrance Plaza
- Station Entrance Portal
- Construction Staging Area

Westwood/VA Hospital

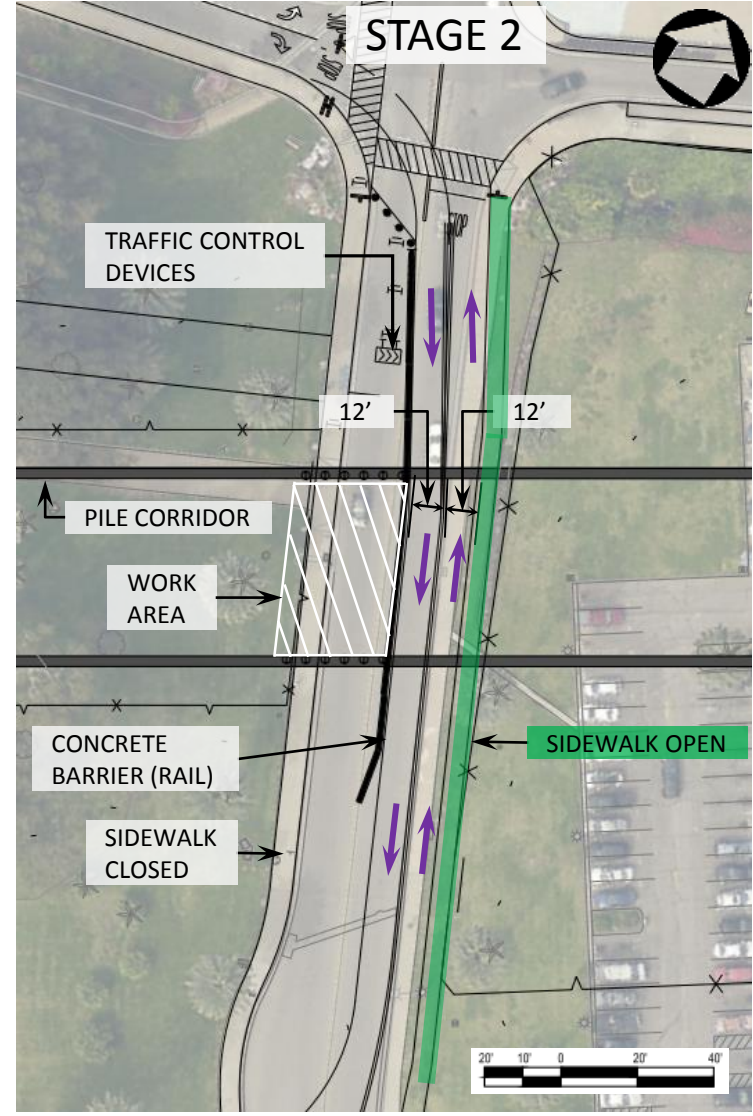
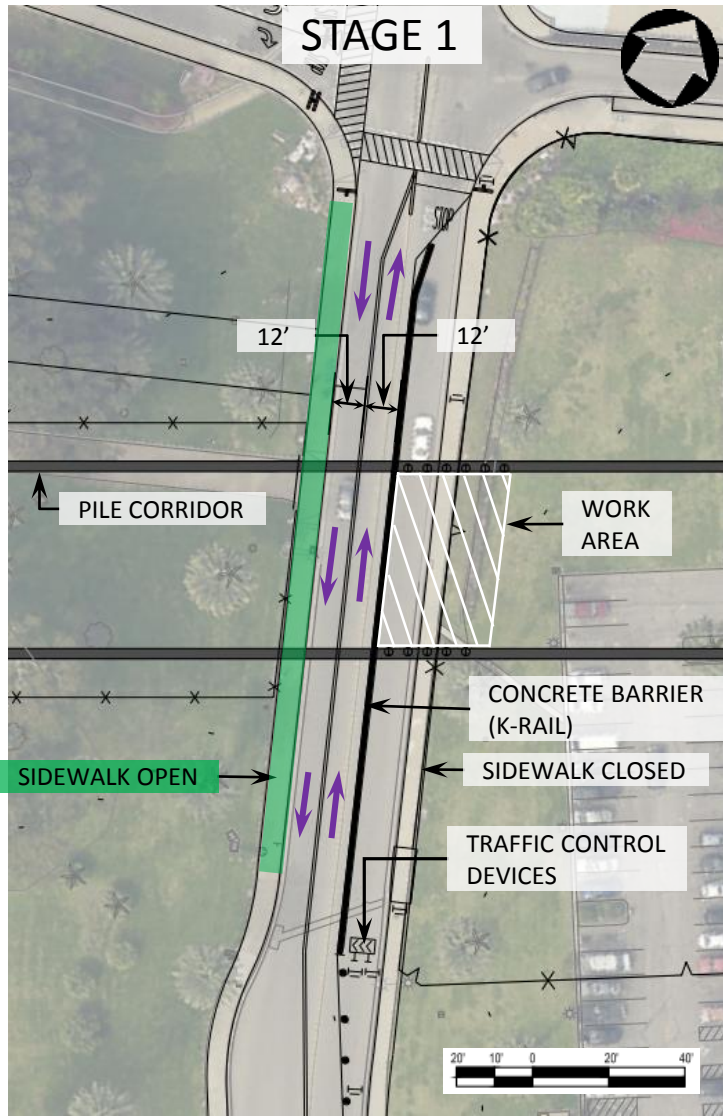
Schedule of upcoming work

**Dates are approximate and subject to change.*

Activity	Forecast Start	Forecast Finish
Subsurface Geotechnical Investigations	June 2019	August 2019
Preconstruction Survey/ Monitoring	June 2019	December 2022
SCE Duct bank on Ohio Av	July 2019	March 2020
SCE Duct bank on Federal Av	July 2019	March 2020
SCE Duct bank on Wilshire Bl	August 2019	March 2020
Construction Staging Yard	October 2019	December 2019

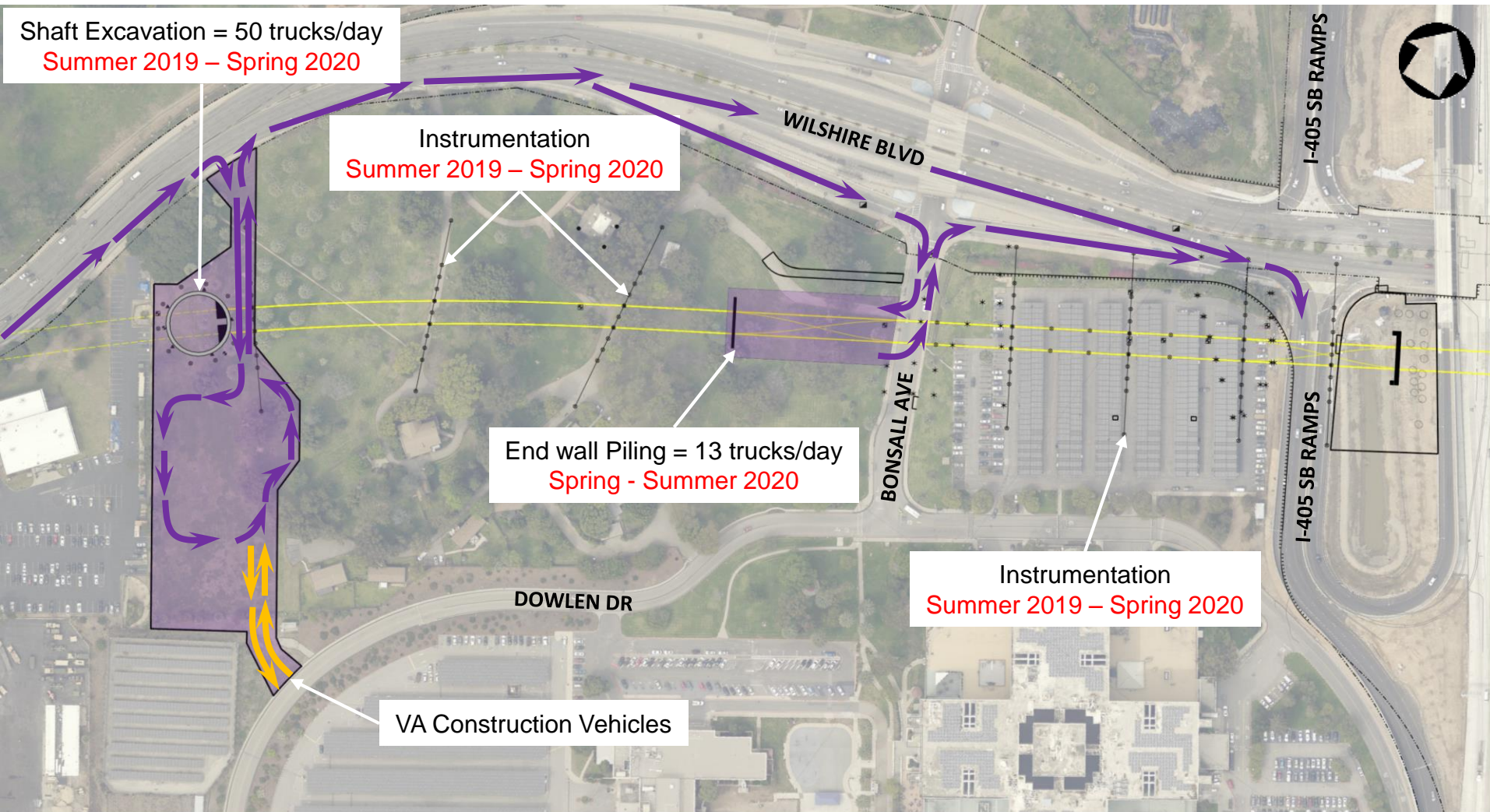
Pedestrian and Vehicular Access to Bonsall Av Maintained

** Subject to change*



Stage 1 – Major Truck Trips

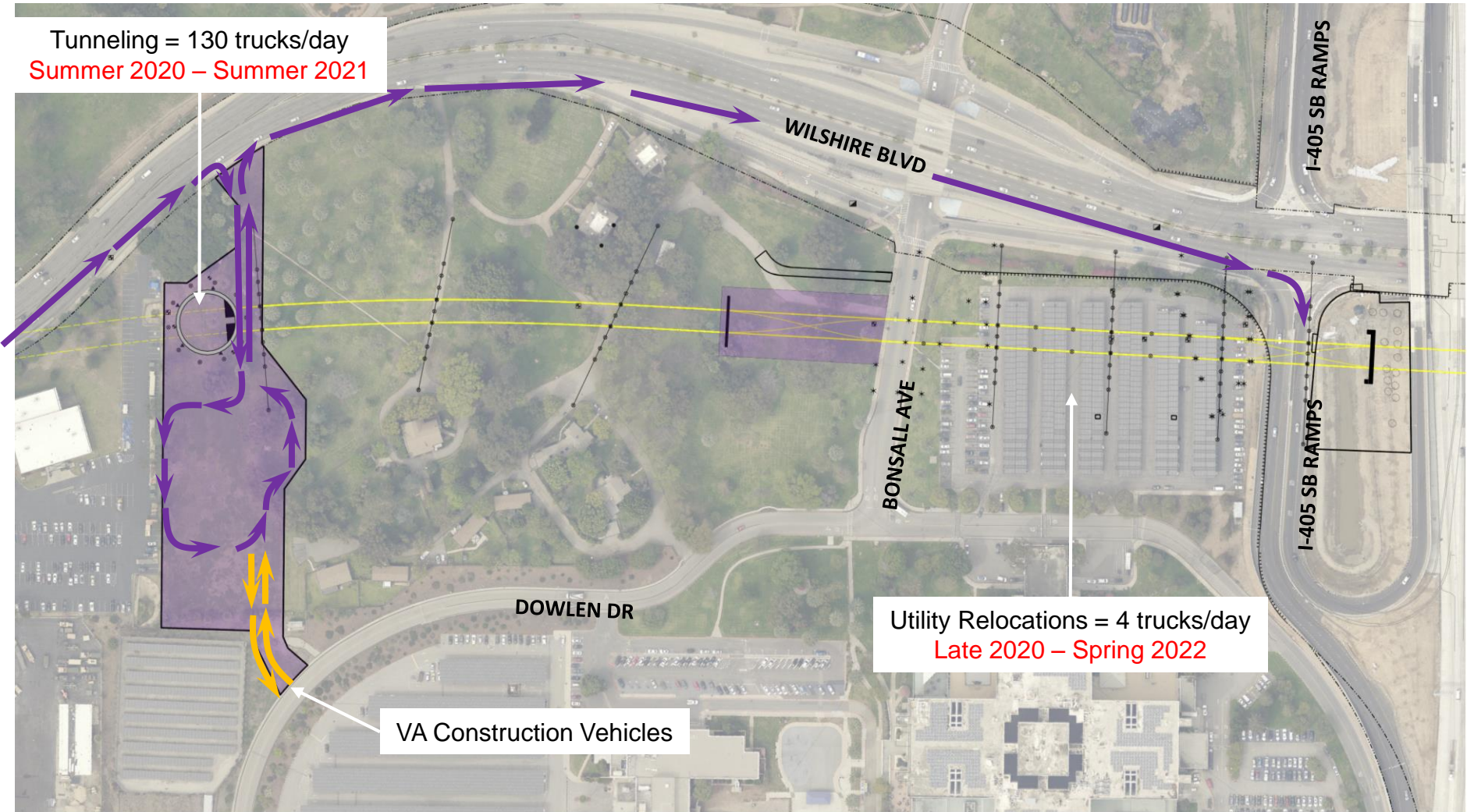
** Subject to change*



Stage 2 – Major Truck Trips

** Subject to change*

Tunneling = 130 trucks/day
Summer 2020 – Summer 2021



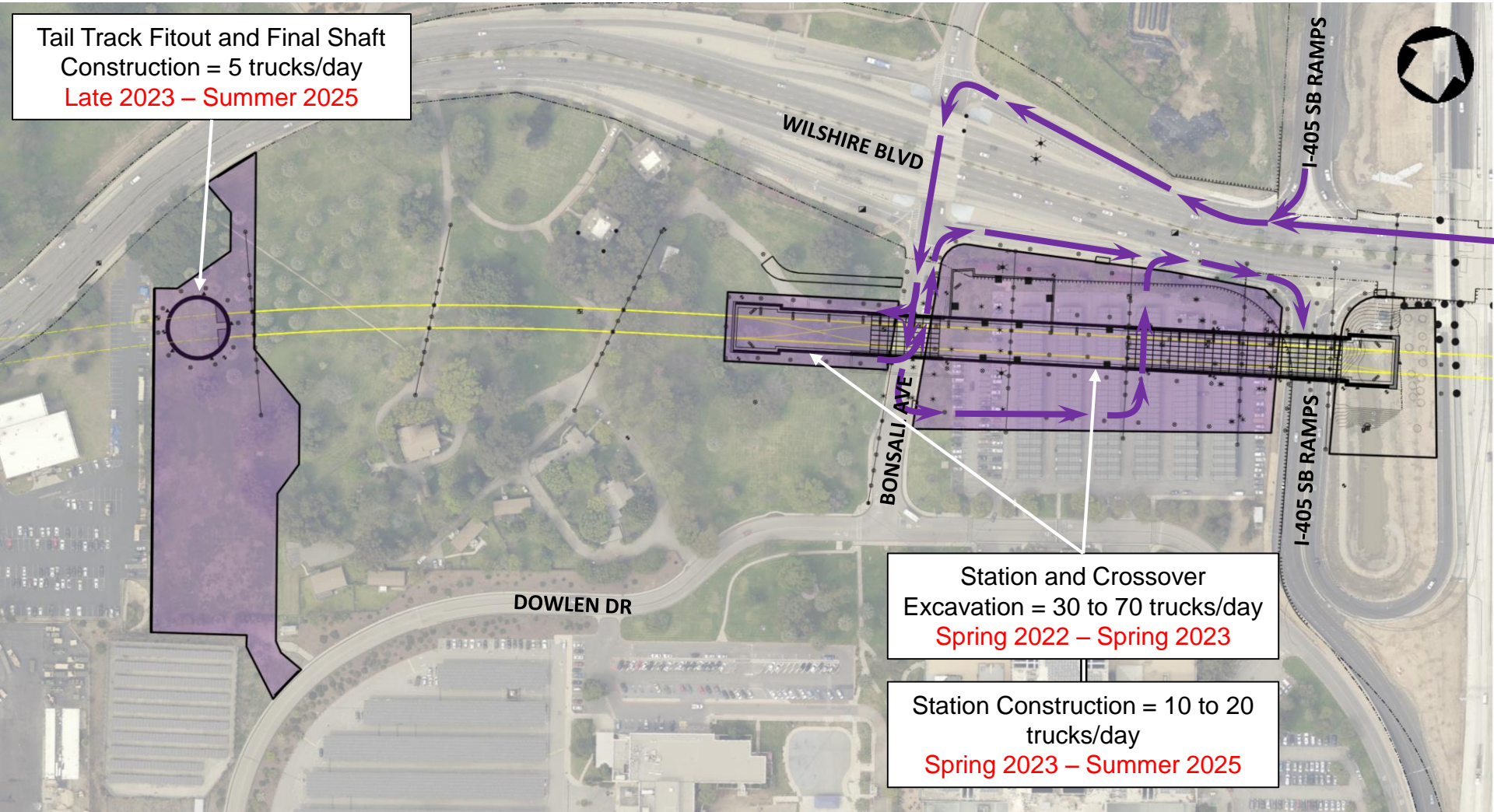
Utility Relocations = 4 trucks/day
Late 2020 – Spring 2022

VA Construction Vehicles

Stage 3 – Major Truck Trips

** Subject to change*

Tail Track Fitout and Final Shaft
Construction = 5 trucks/day
Late 2023 – Summer 2025



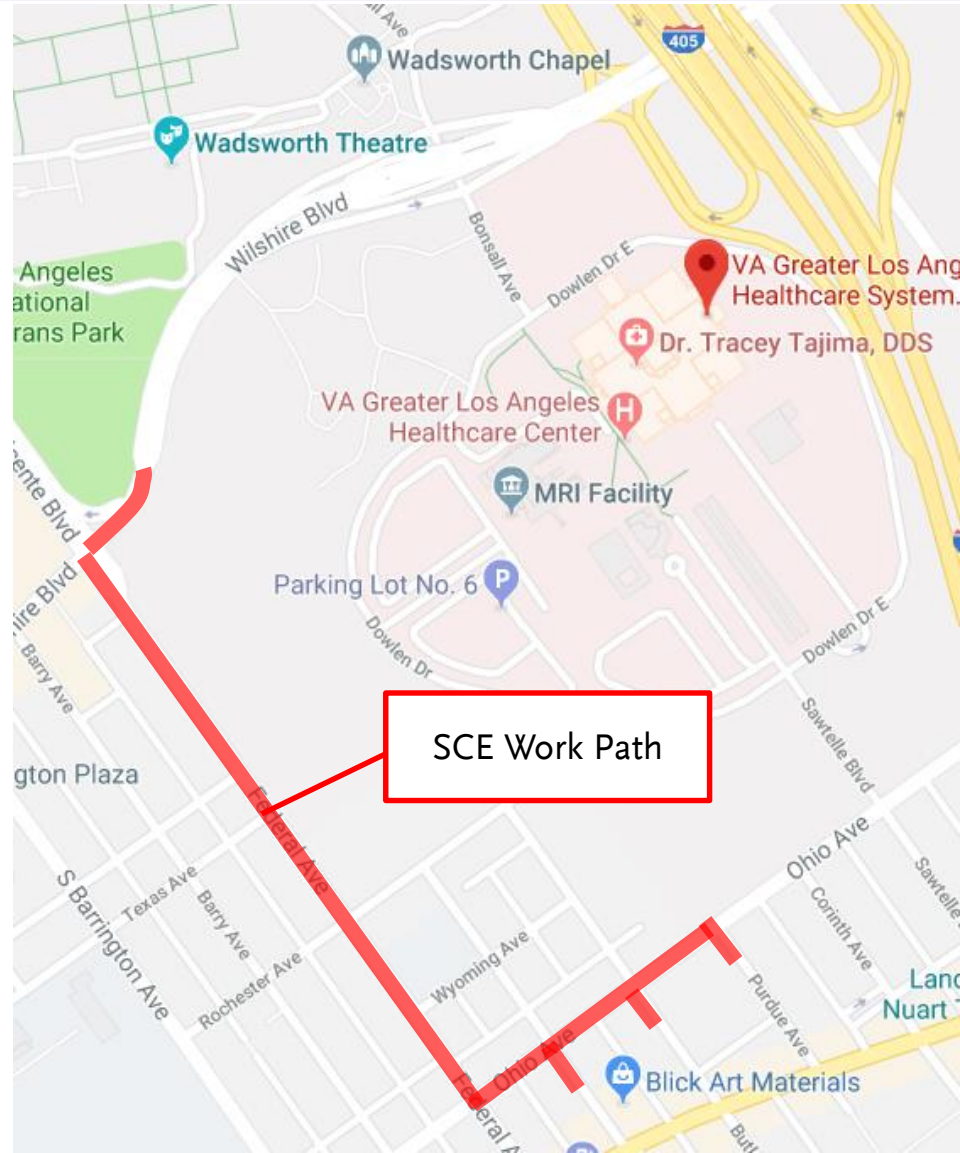
Station and Crossover
Excavation = 30 to 70 trucks/day
Spring 2022 – Spring 2023

Station Construction = 10 to 20
trucks/day
Spring 2023 – Summer 2025

Station/TBM Power Connection

Upcoming SCE Underground Electrical Work

- Metro funding and constructing an electrical system upgrade with SCE
- All plans approved by SCE and City/County of Los Angeles
- Upgrade will provide power necessary for construction and tunneling activities
- Will provide power for operations of the future Westwood/VA Hospital Station



Station/TBM Power Connection

Upcoming SCE Underground Electrical Work

- Work anticipated to begin on Ohio Av, at Purdue
- Intermittent parking restrictions and traffic detours expected
- Intermittent left turn restrictions will be enforced with Traffic Control Officers
- Potential for two stages to occur simultaneously



SCE Proposed Schedule Options for Ohio Av

Option	Work Hours (Productive Hours)	Duration of work on Ohio			
Current Plan: Non-Peak	9am to 3:30pm	7 months			
Option 2: Night Work	9pm to 6am	5 months			
Option 3: AM Peak	6am to 4pm	4 months			
Option 4: All of the above <ul style="list-style-type: none"> • Non peak • Night work • AM Peak 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">9am to 3:30pm</td> </tr> <tr> <td style="text-align: center;">6am to 4pm</td> </tr> <tr> <td style="text-align: center;">9pm to 6am</td> </tr> </table>	9am to 3:30pm	6am to 4pm	9pm to 6am	3 months
9am to 3:30pm					
6am to 4pm					
9pm to 6am					

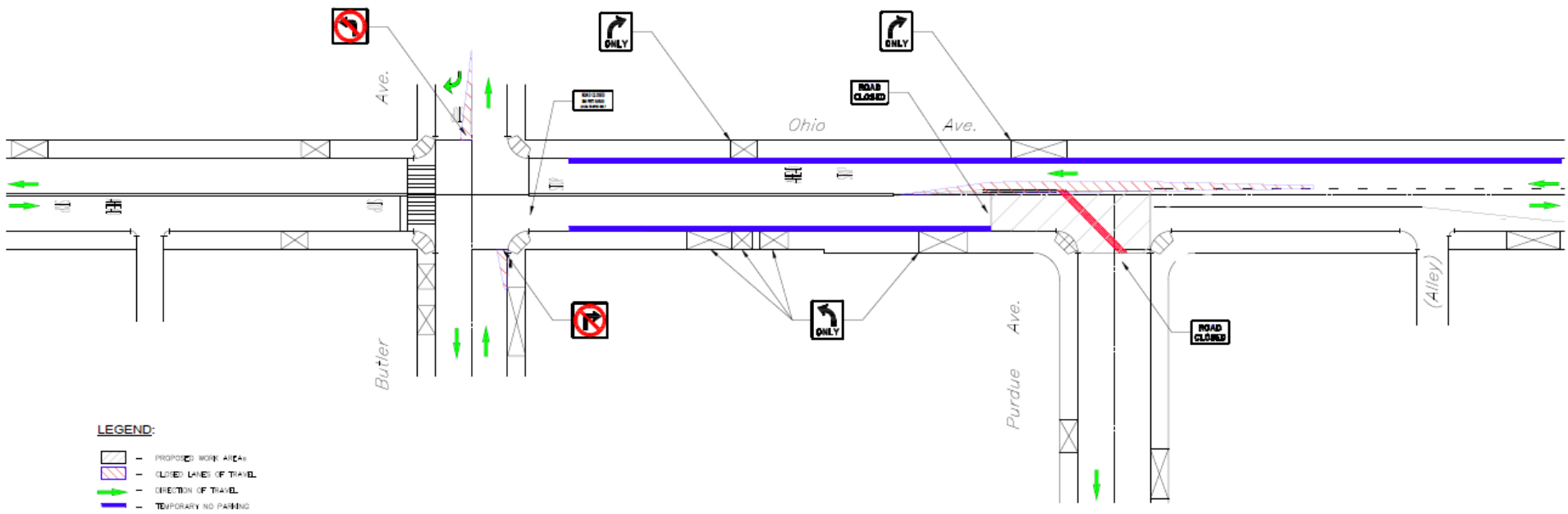


Benefits of more work hours:

- Shorter construction schedule
- Less impact to community

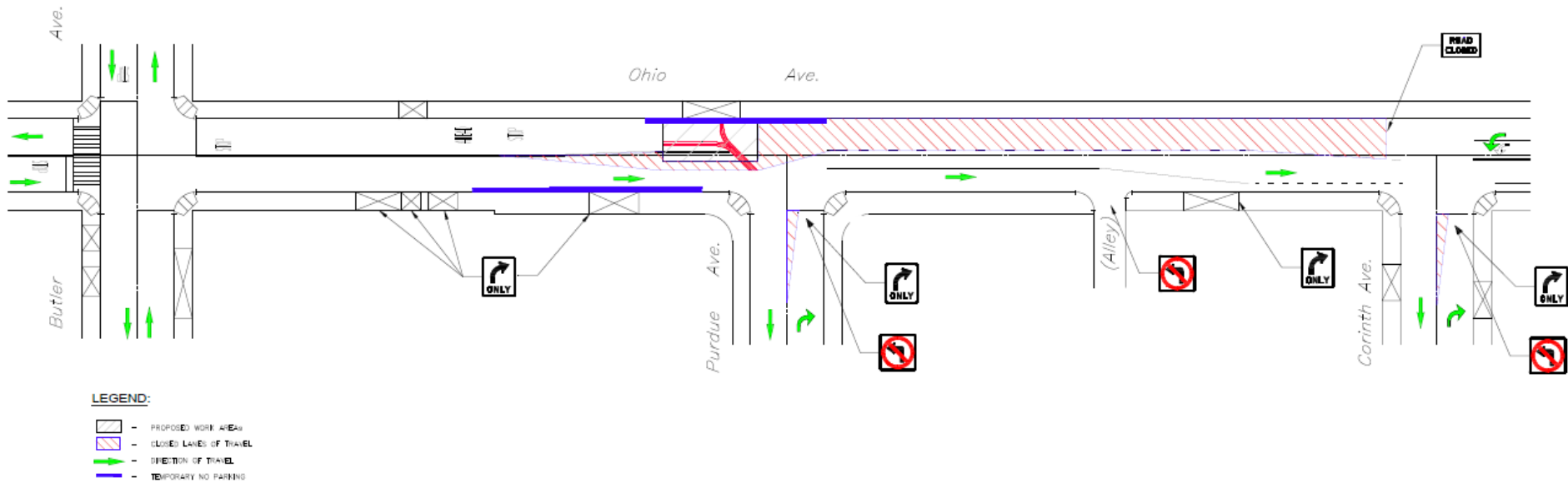
Station/TBM Power Connection

Upcoming SCE Underground Electrical Work



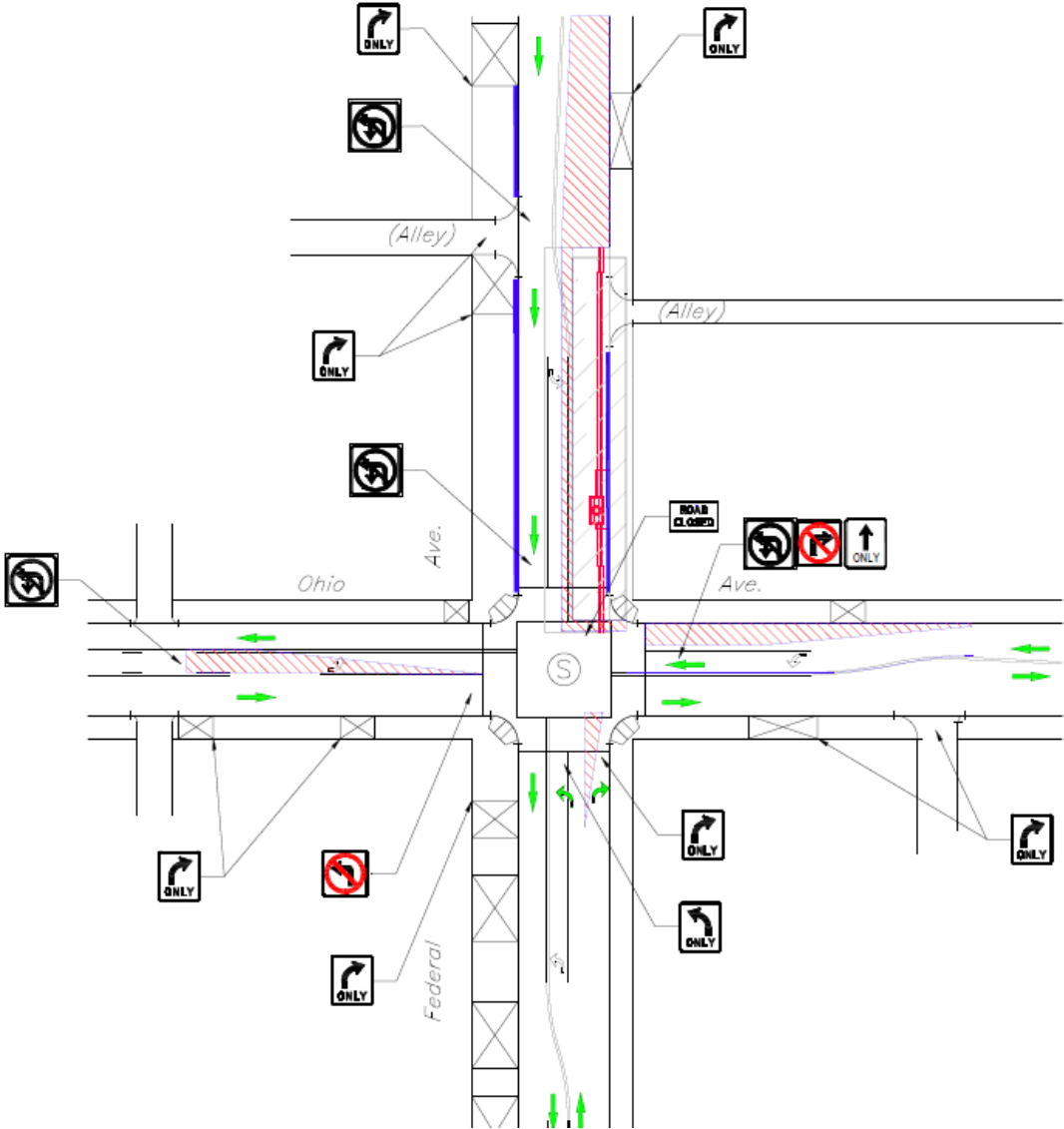
Station/TBM Power Connection

Upcoming SCE Underground Electrical Work



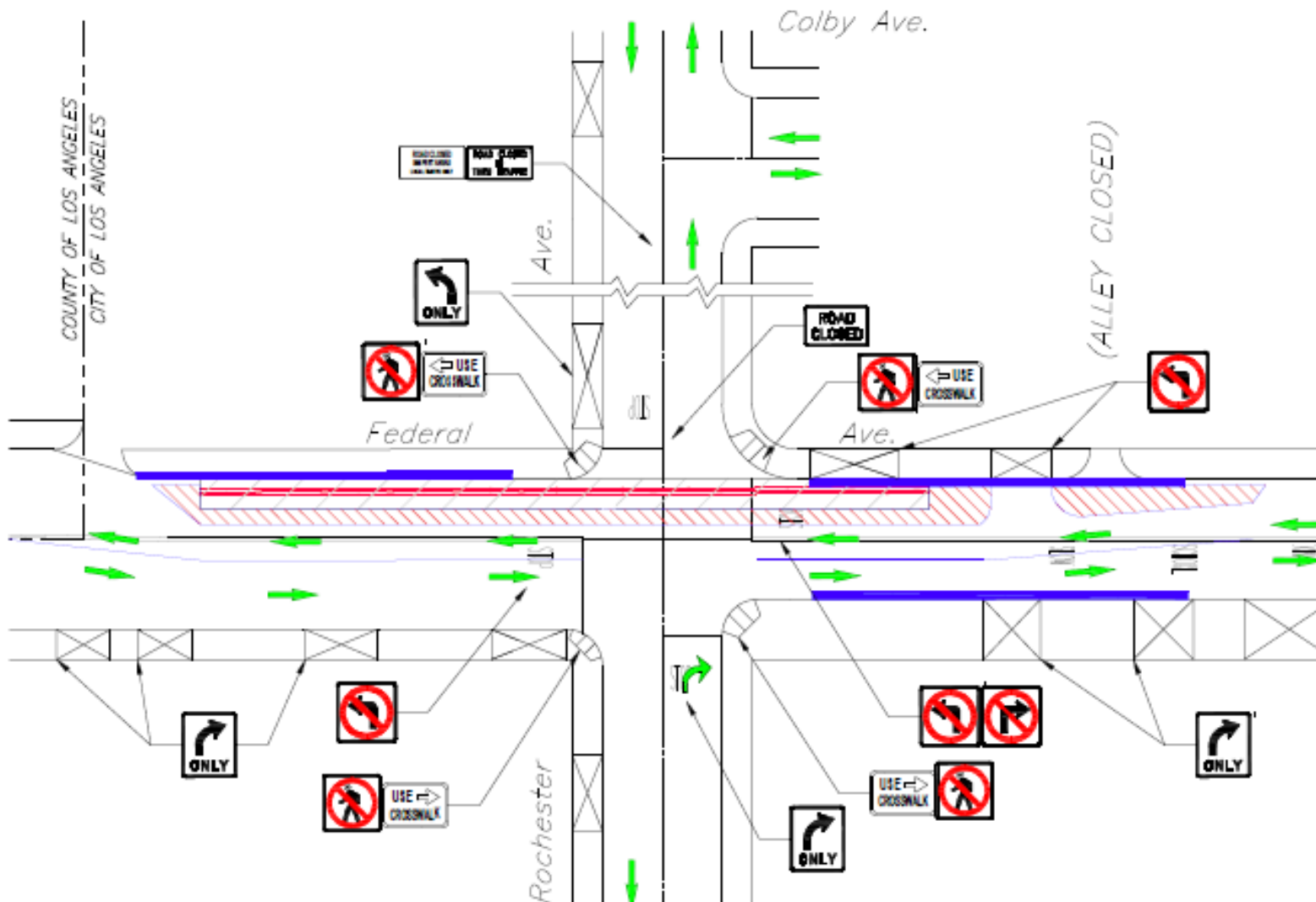
Station/TBM Power Connection

Upcoming SCE Underground Electrical Work



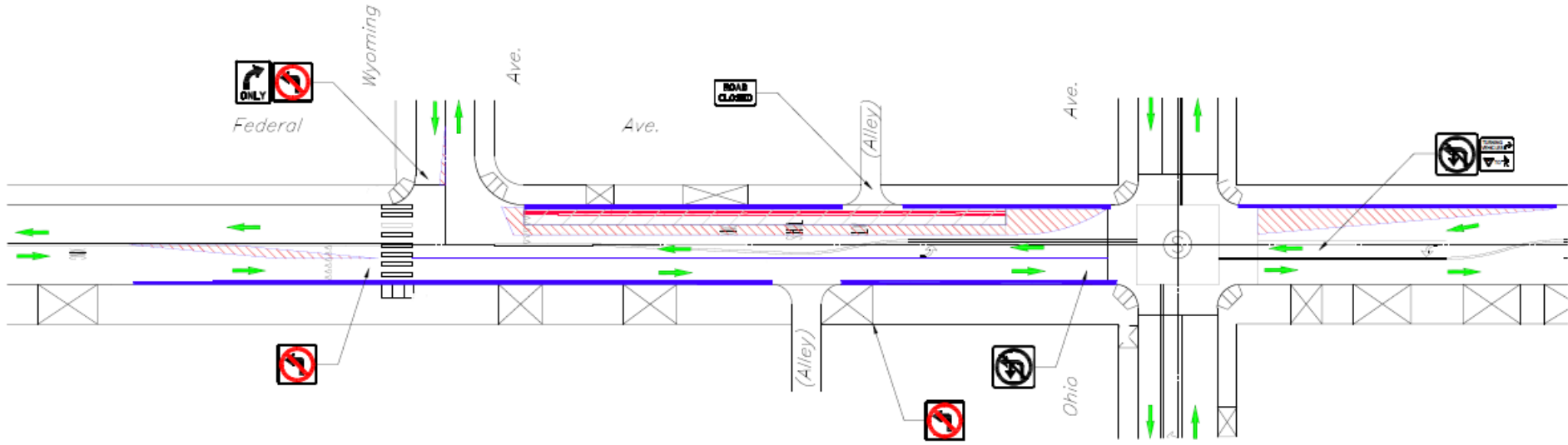
Station/TBM Power Connection

Upcoming SCE Underground Electrical Work



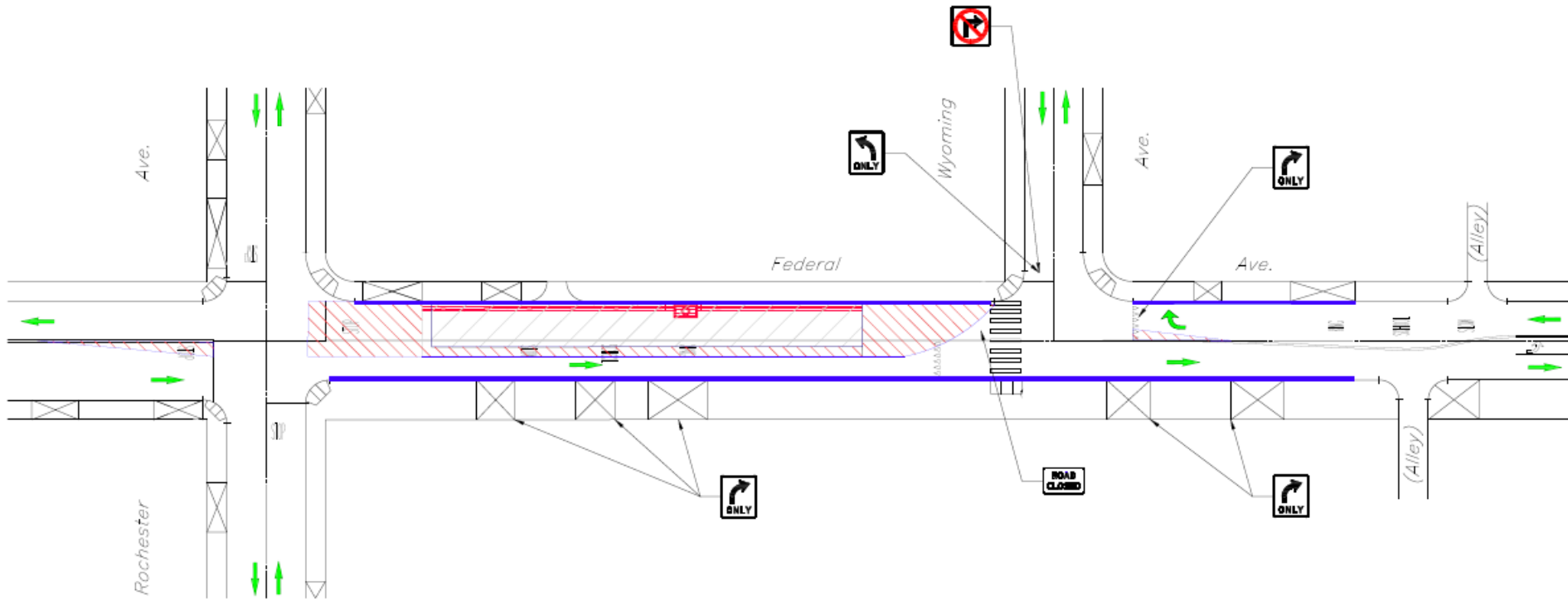
Station/TBM Power Connection

Upcoming SCE Underground Electrical Work



Station/TBM Power Connection

Upcoming SCE Underground Electrical Work



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

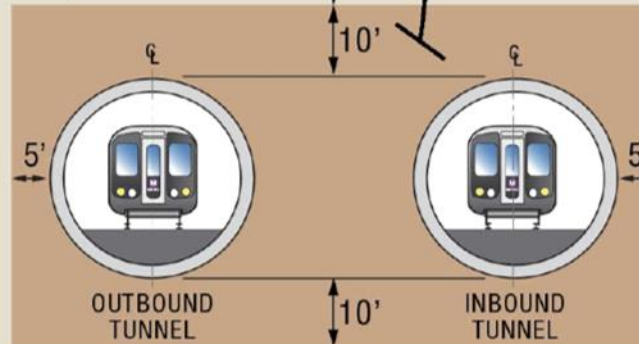
50' – 160'
Typical Depth

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

- 6% Annual Veteran Hiring Initiative
- Currently exceeding goal at 7%
- 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, September 19, 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



purplelineext@metro.net



metro.net/purplelineext



@purplelineext



facebook.com/purplelineext



Metro



Online Resources

Final Environmental Impact Statement/ Environmental Impact Report – approved in 2012

https://media.metro.net/projects_studies/westside/images/final_eir-eis/appendix_c_acquisitions_2015-0127.pdf

Environmental Impact Report showing tunnel depths- approved 2012

https://media.metro.net/projects_studies/westside/images/final_eir-eis/Appendix%20A%20Plan%20and%20Profile%20Drawings%20-%20Part%201%20of%202.pdf