

Purple Line Extension

Section 3 Construction Community Meeting September 19, 2019

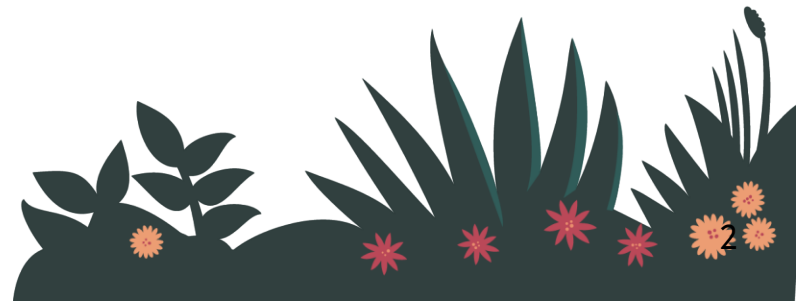


Agenda

- 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
- Q&A



Metro



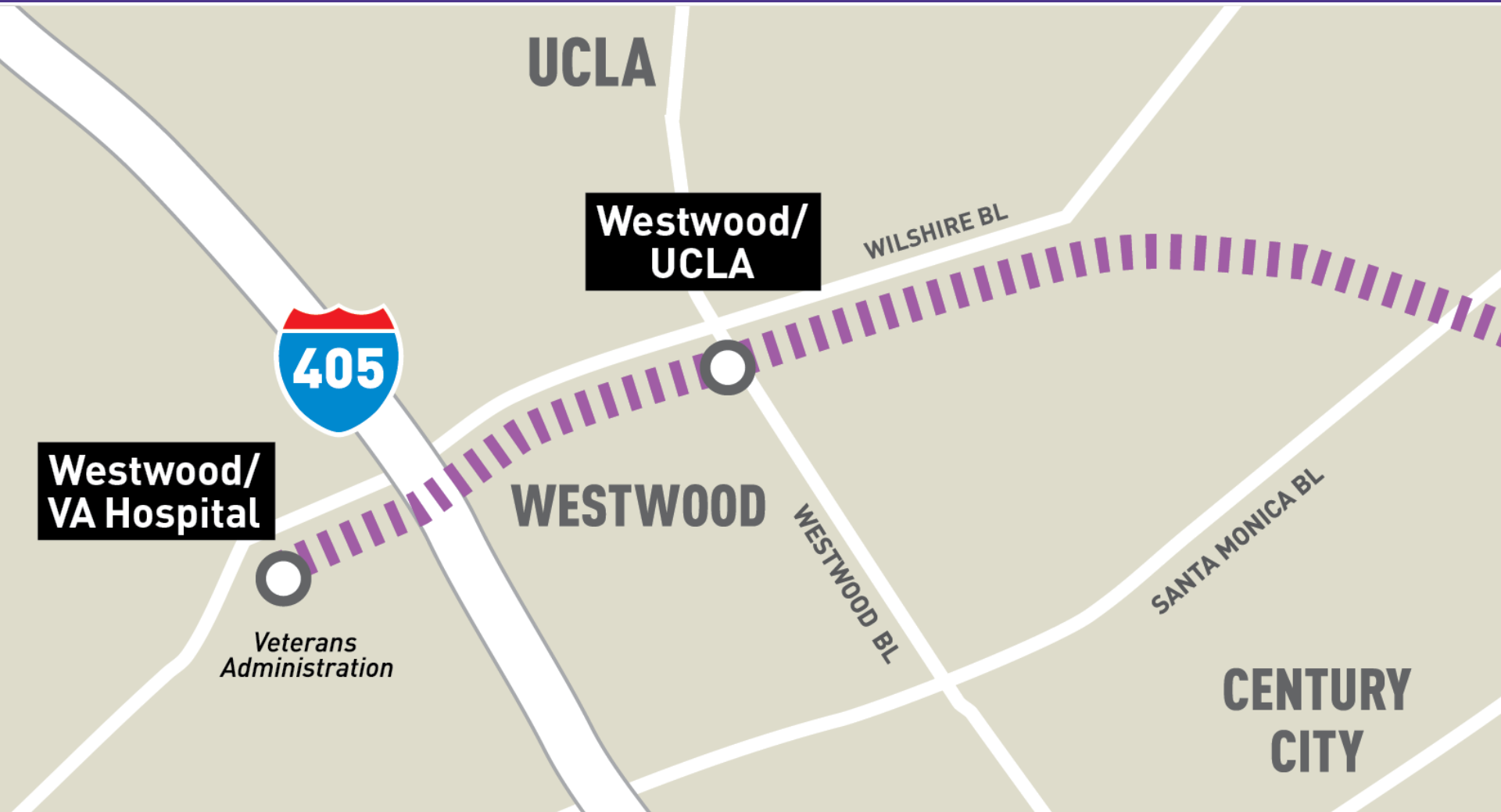
Sections 1, 2 & 3 Status

**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 of 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

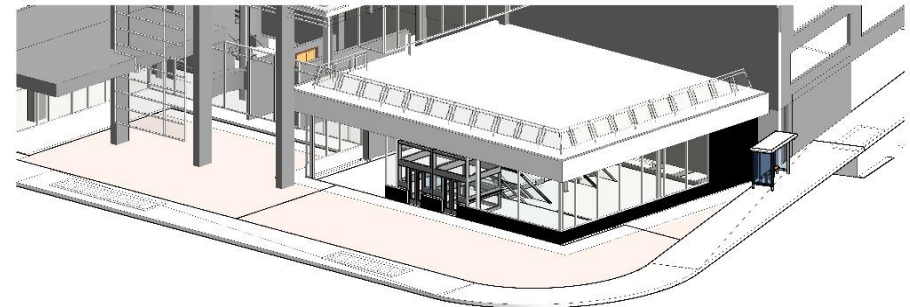
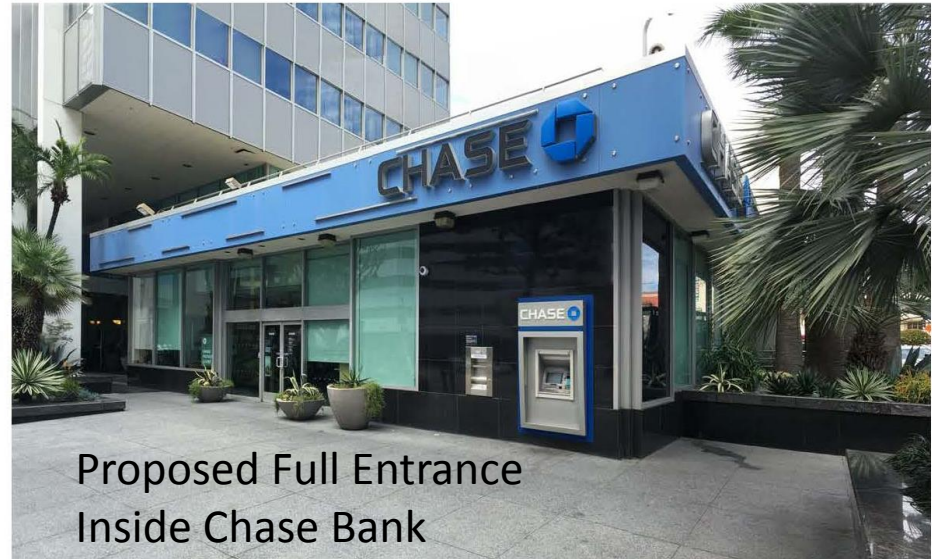
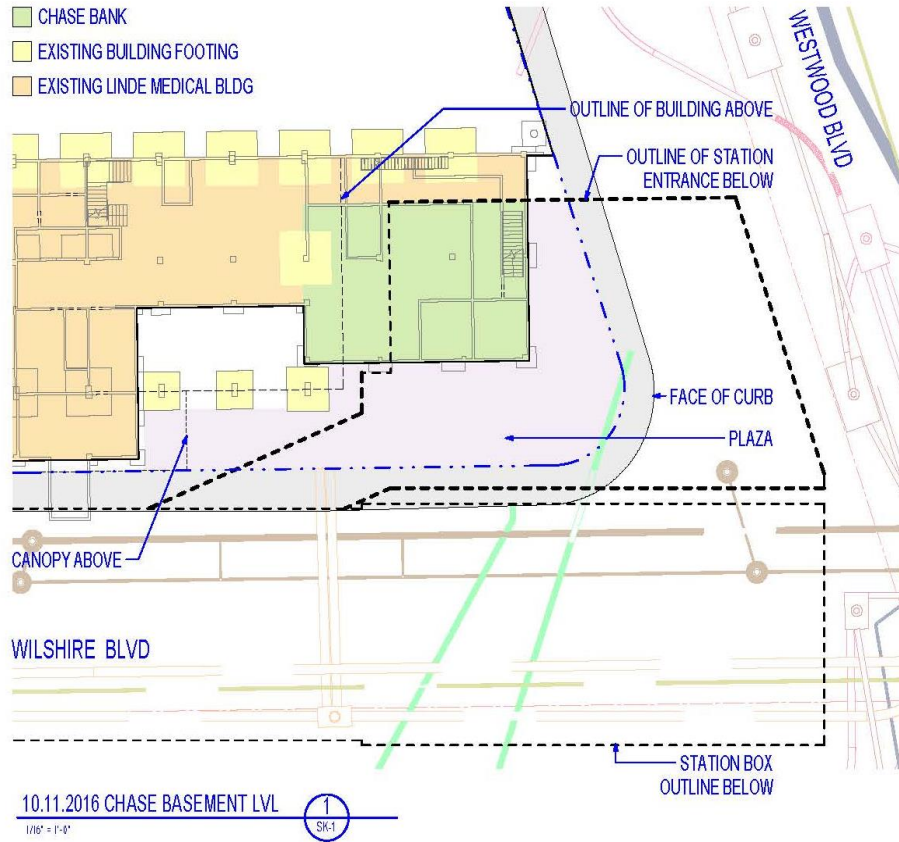


Westwood/UCLA Station Outline



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	Summer 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



Advanced Utility Relocation (AUR)

Water Tie-In Work



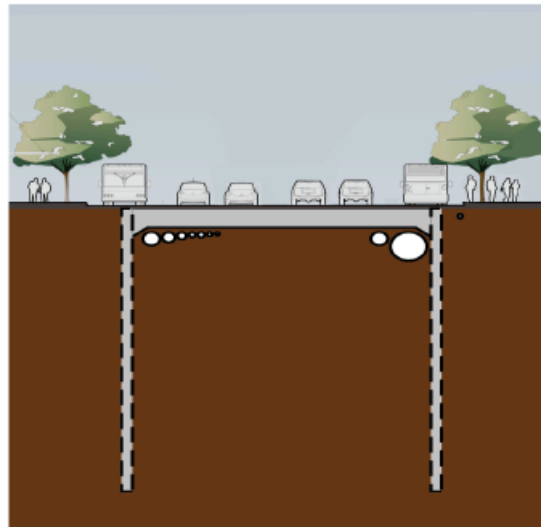
Subsurface Investigations

Geotechnical Investigations

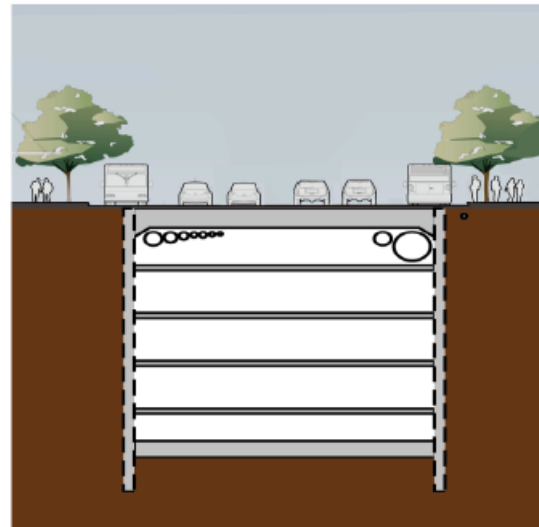


- **Summer 2019:** Investigated soil conditions at 25 locations along the future tunnels.
- **Fall 2019:** Investigating soil conditions at 25 locations around the future stations.
- Work hours vary based on location
- Each site requires 3 to 5 days of work

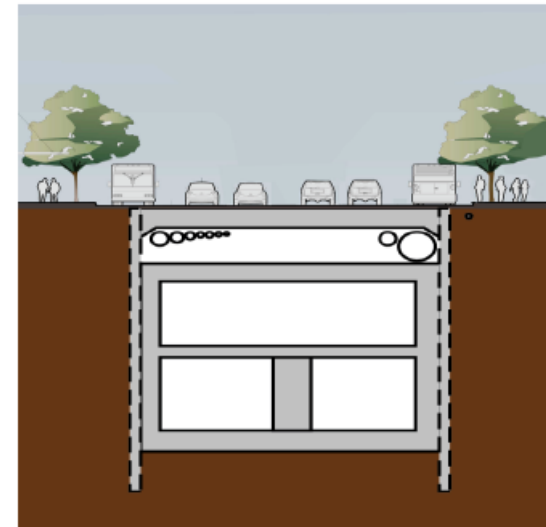
Station Construction Overview



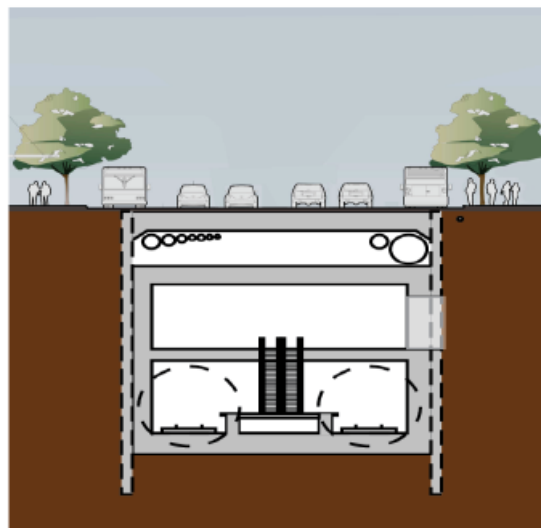
Install Piles and Decking



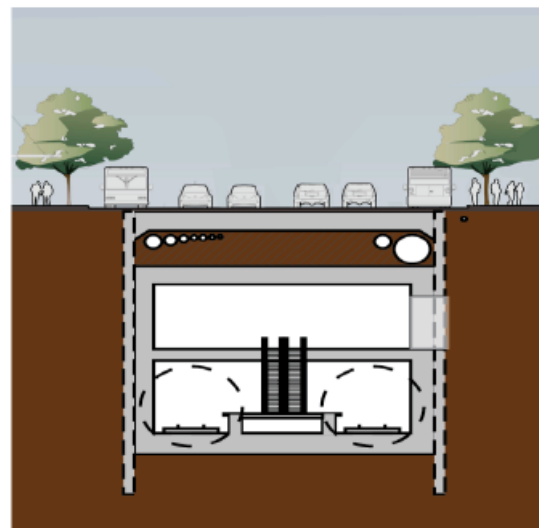
Excavate and Install Supports
(from beneath decking)



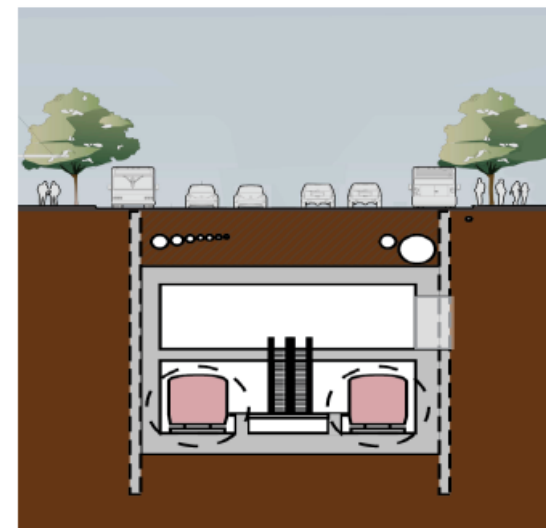
Construct Station Box



Complete Station Box



Backfill Above Structure



Remove Decking and
Restore Street

Piling Example

Temporary Work Zones



*Comparable work zone formerly at
Wilshire/La Brea*

Rendering of work zone showing pile installation

Piling Example

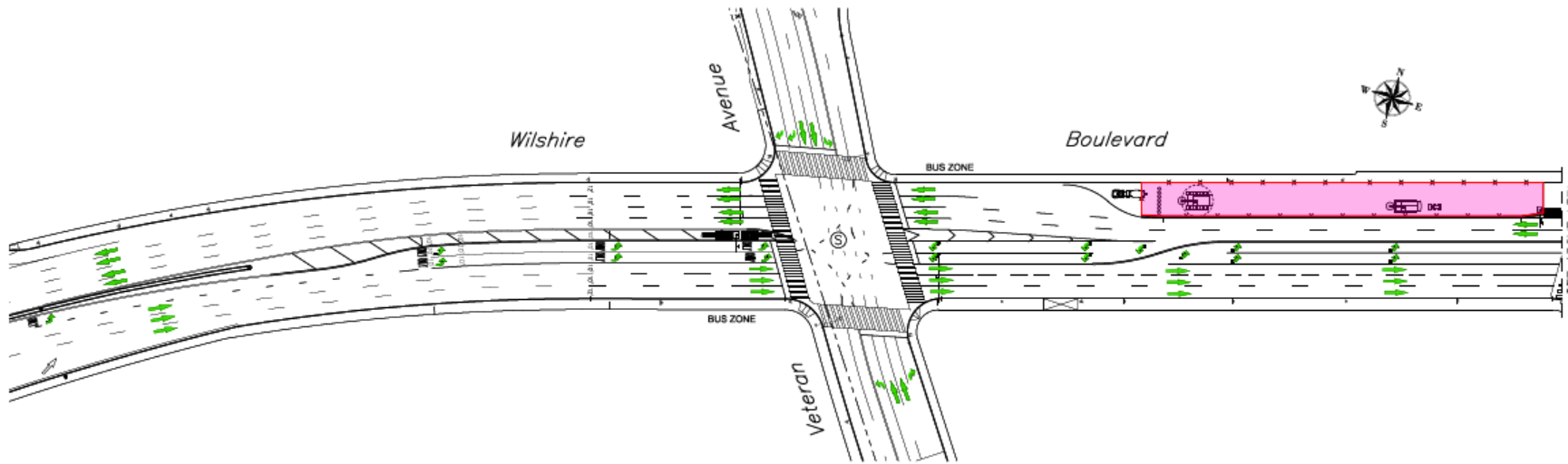
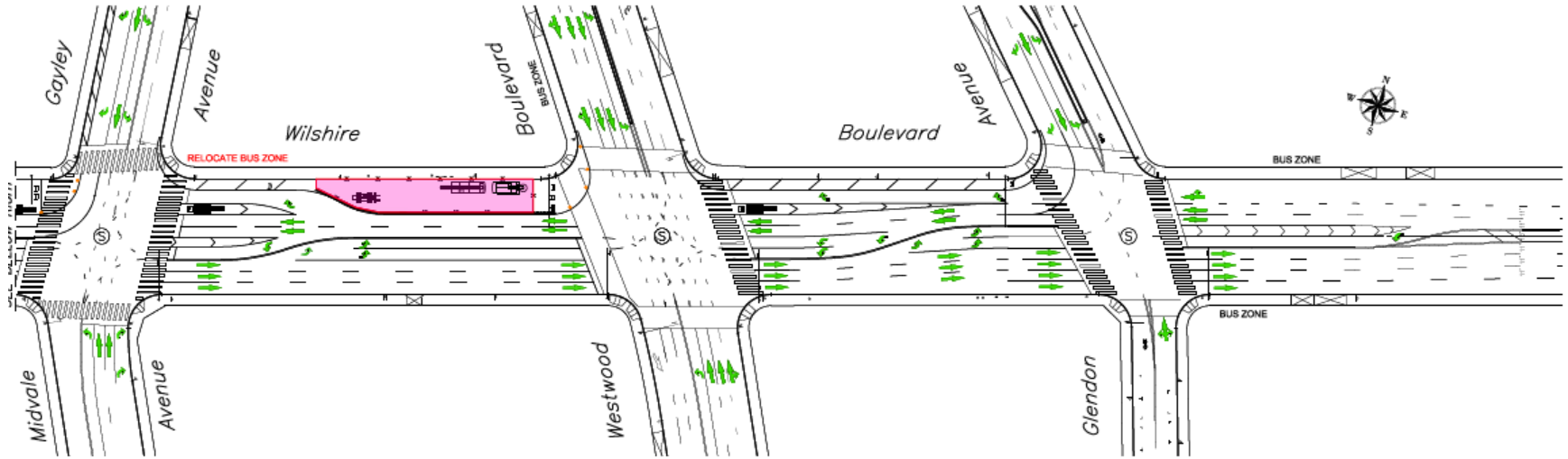
Temporary Work Zones



Example of construction area with piling set-up on the south side of Wilshire Bl in Beverly Hills.

End-Wall Piling Phase 1

24/7

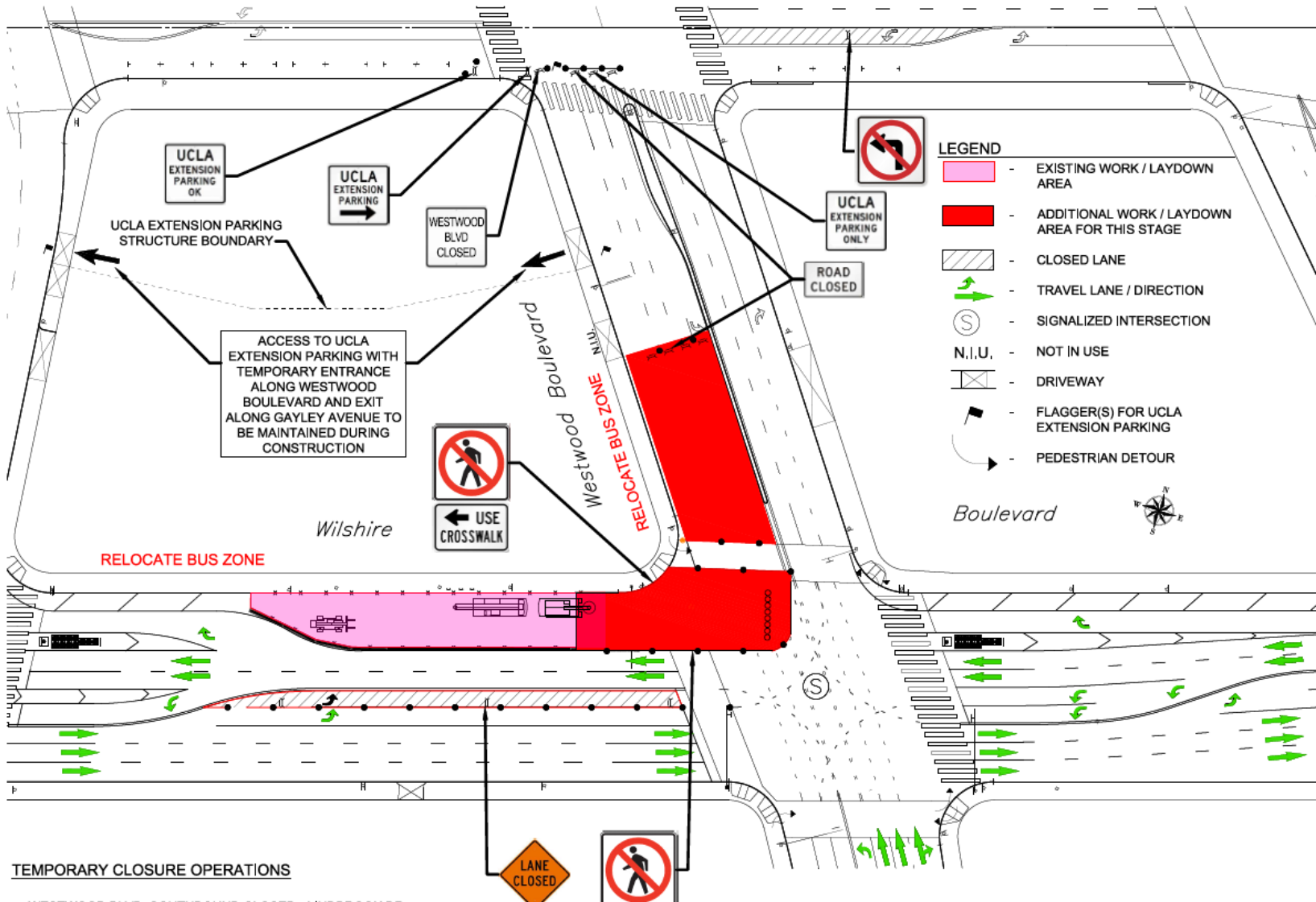


LEGEND

 - WORK / LAYDOWN AREA

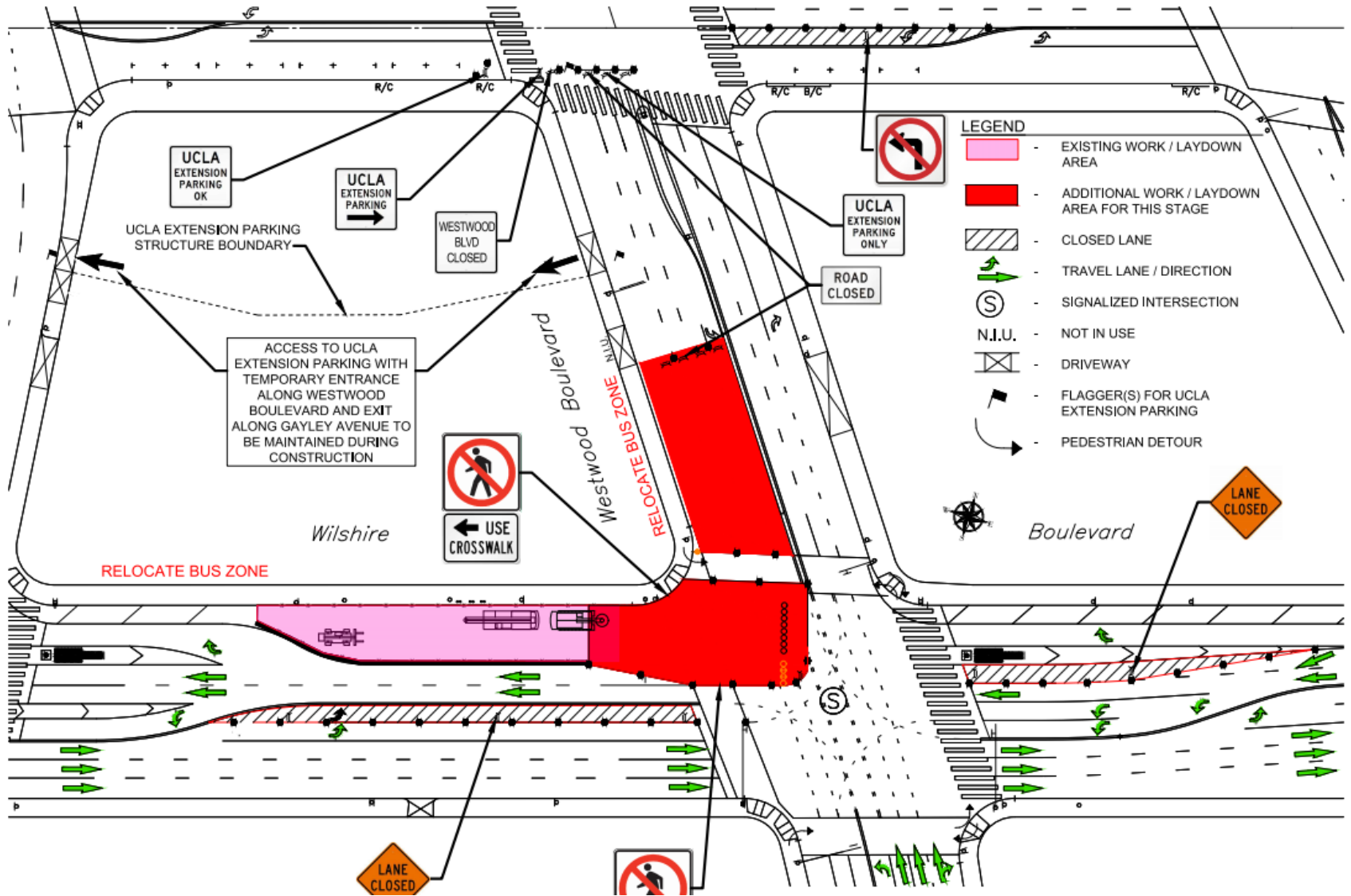
End-Wall Piling Phase 2

Sun–Thurs 9pm–8am, Fri–Mon 9pm–6am



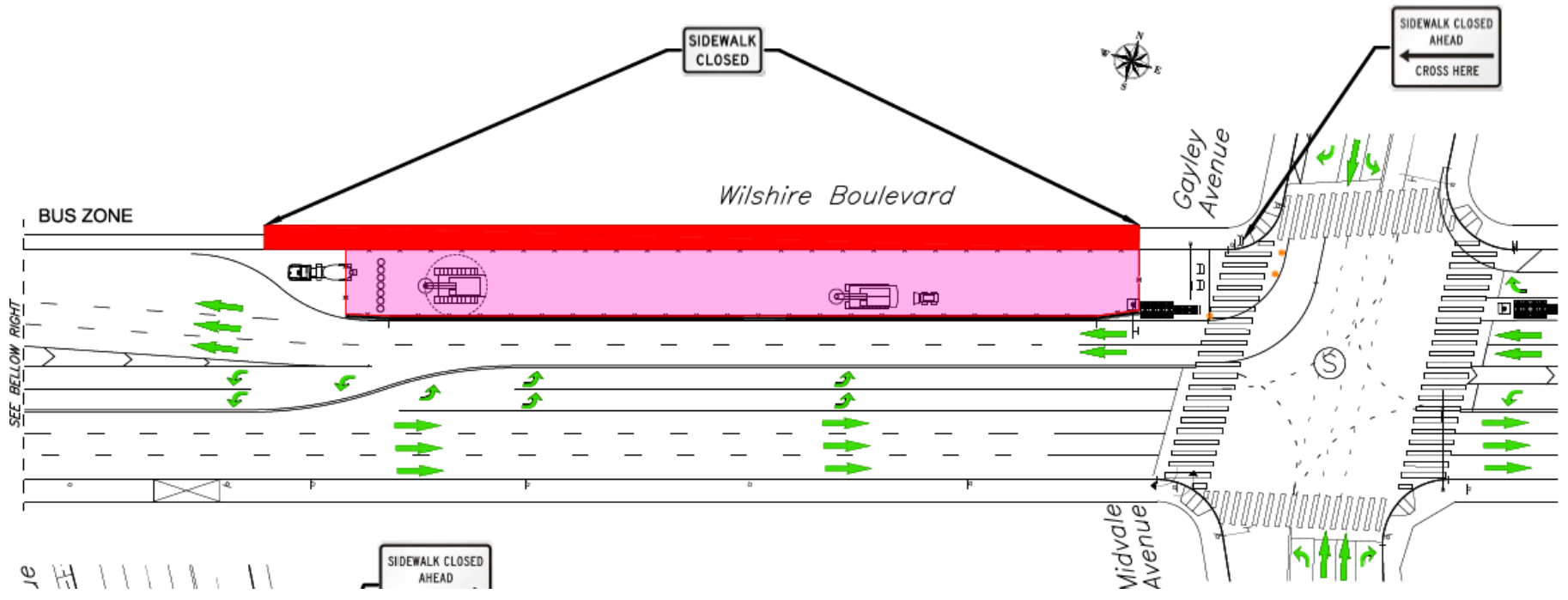
End-Wall Piling Phase 3

Sun–Thurs 11pm–8am, Fri–Mon 11pm–6am



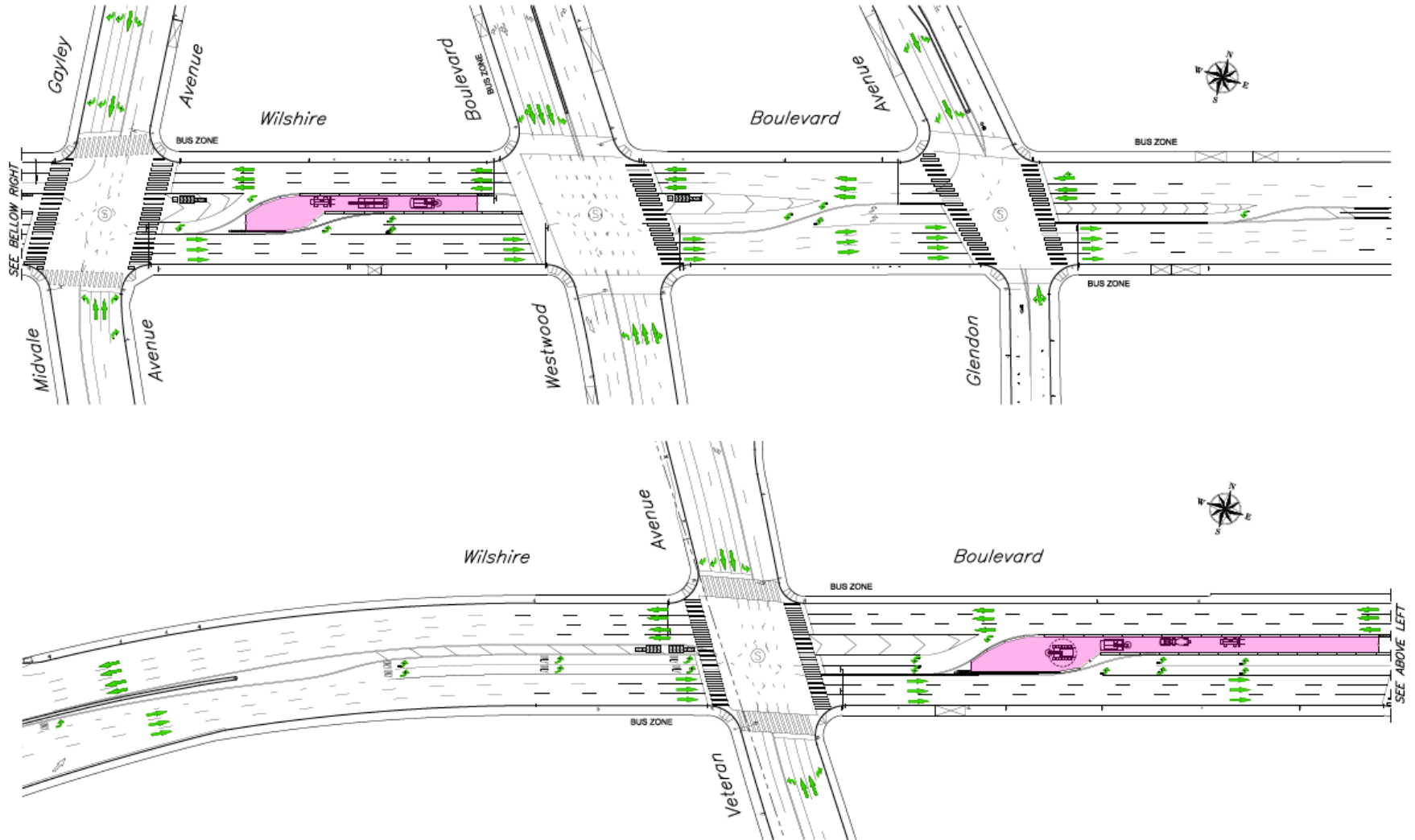
End-Wall Piling Phase 4

24/7



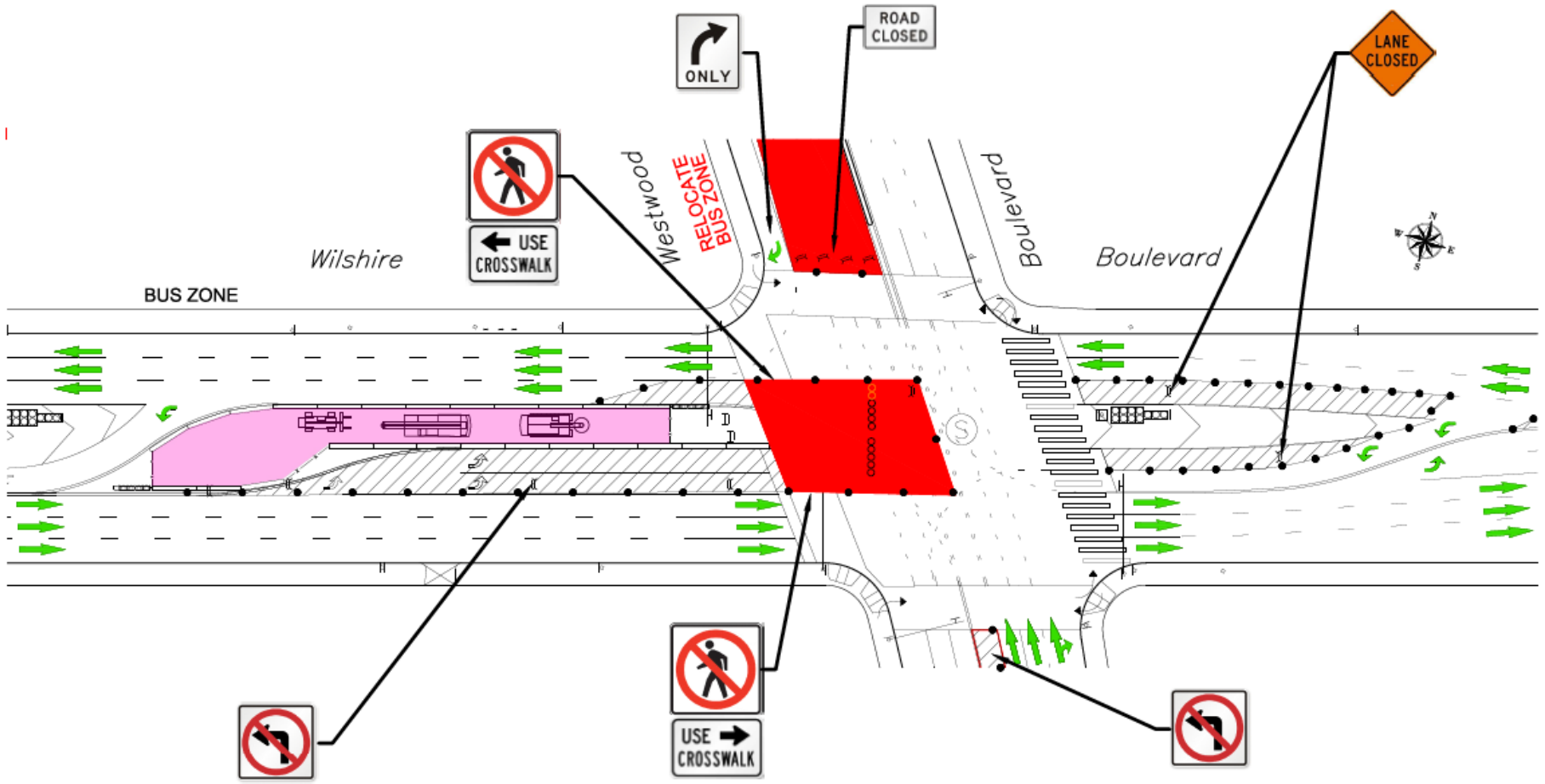
End-Wall Piling Phase 5

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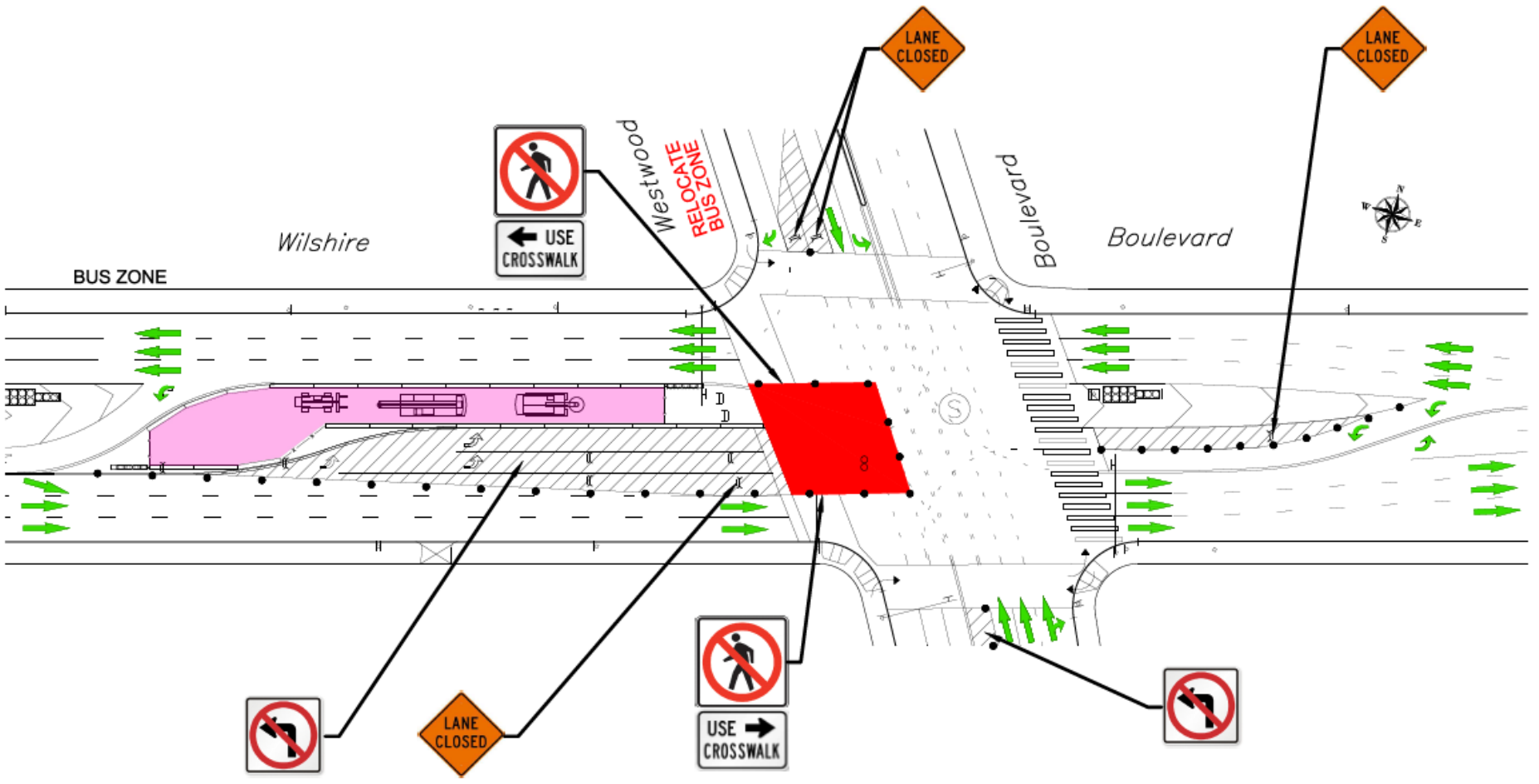
End-Wall Piling Phase 6

Sun–Thurs 9pm–6am, Fri–Mon 9pm–6am



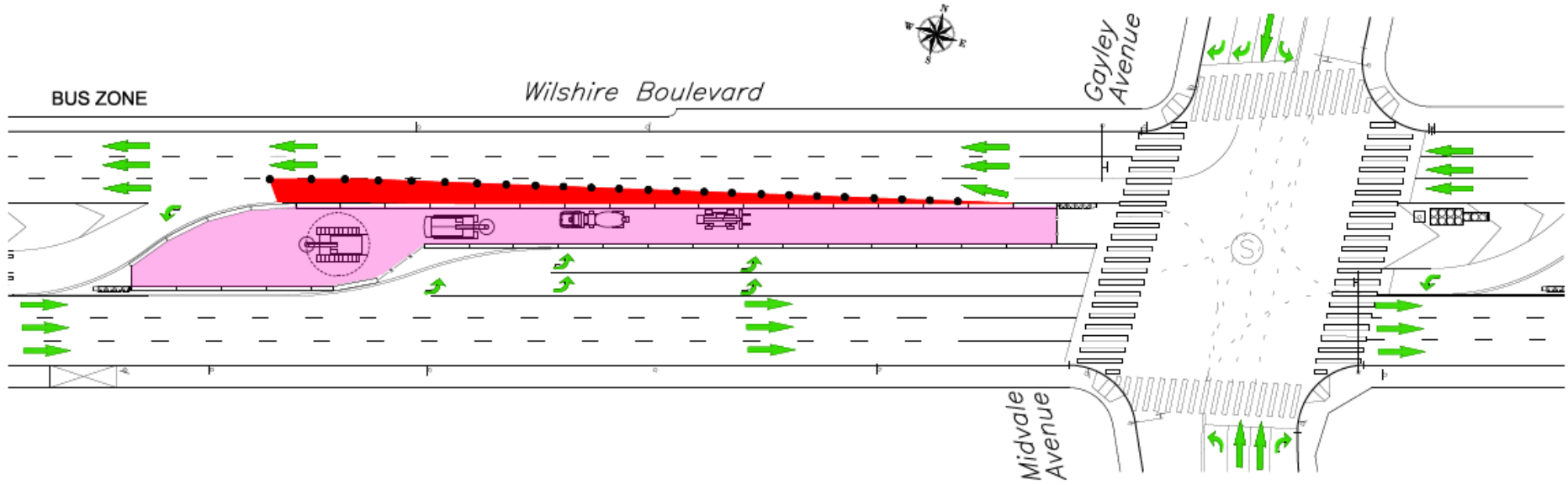
End-Wall Piling Phase 7

Sun–Thurs 9pm–6am, Fri–Mon 9pm–6am



End-Wall Piling Phase 8

Fri–Mon 9pm–6am



Westwood/VA Hospital

Current Station Rendering



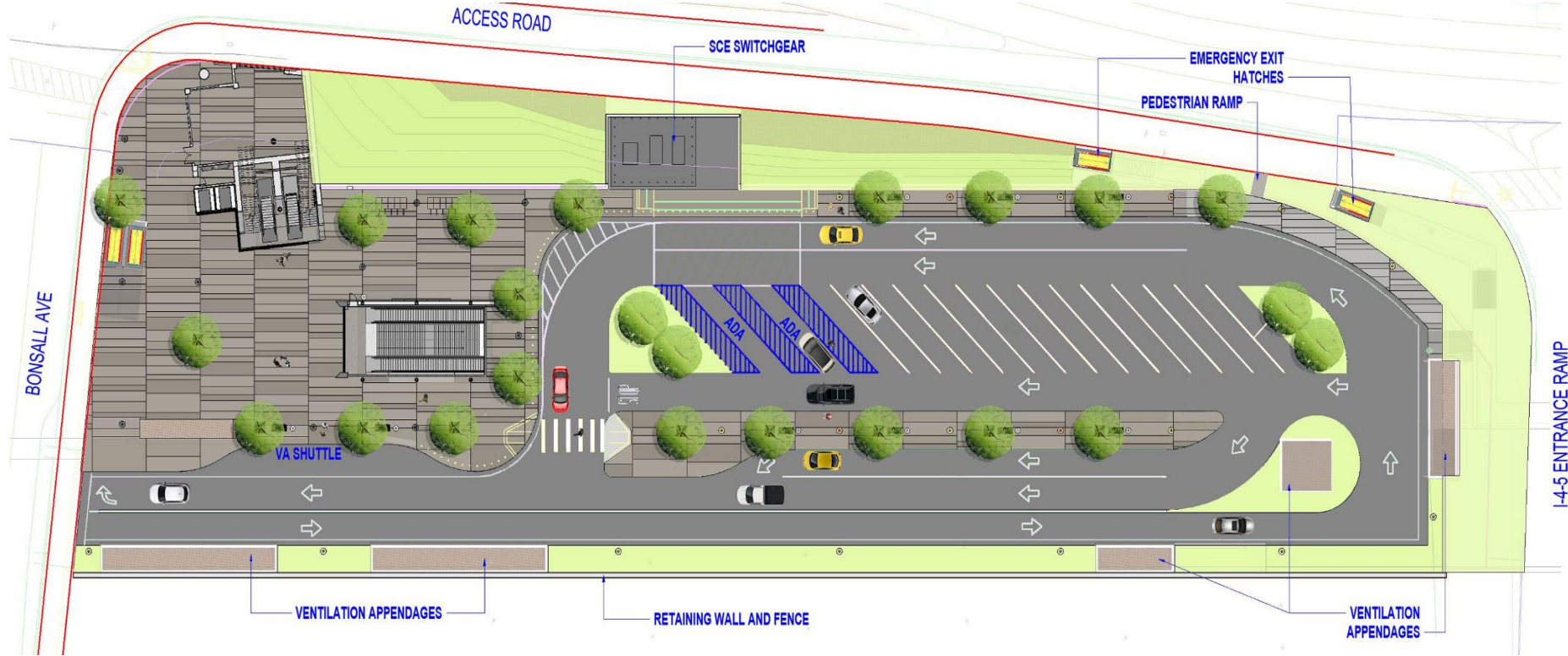
3-D Rendering Westwood/VA Station

View from Bonsall Ave - North to South



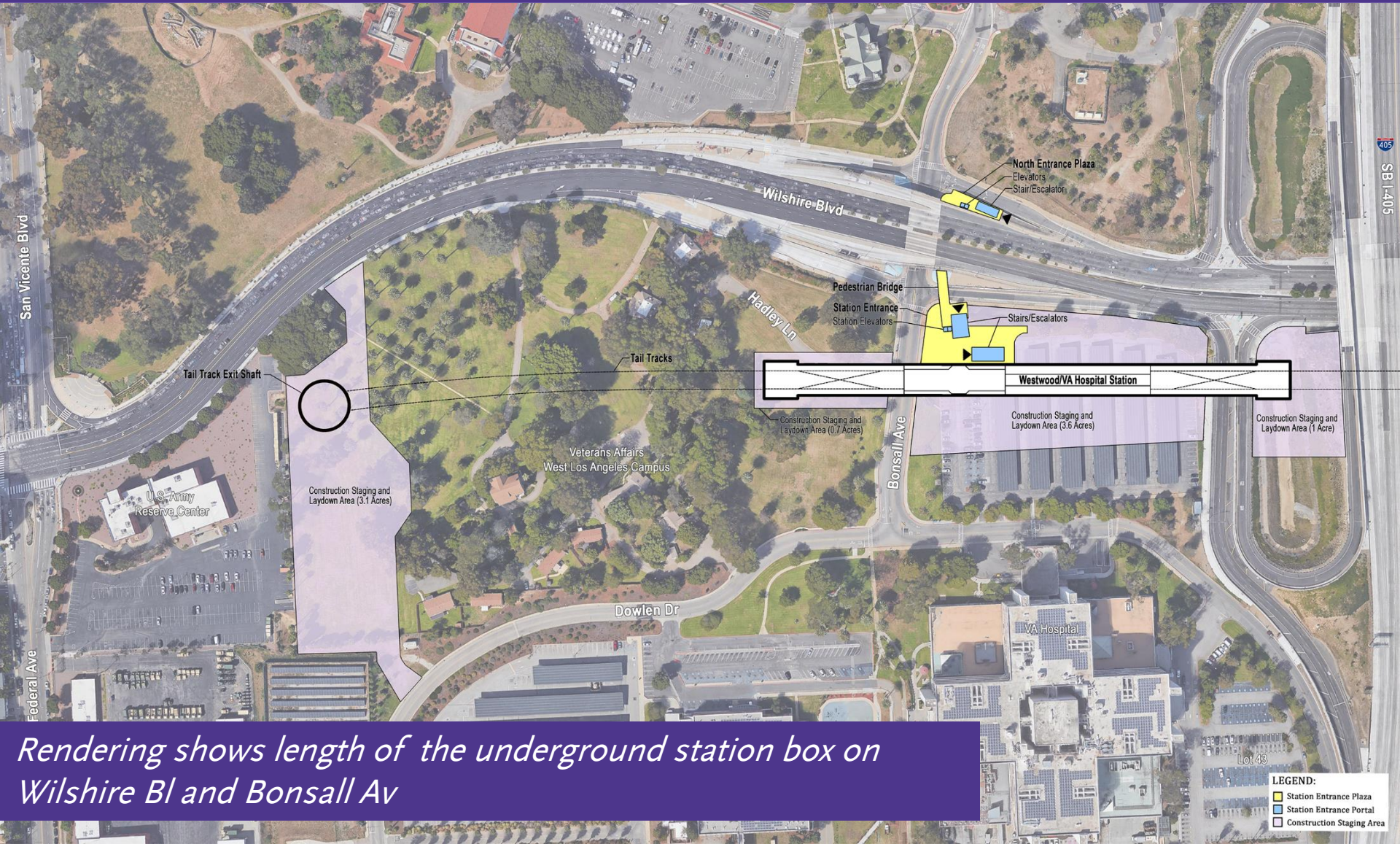
Passenger Pick-up/Drop-off

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	Summer 2019	Fall 2019
Preconstruction Survey/ Monitoring	Summer 2019	Winter 2022
SCE Duct bank on Federal Av	Fall 2019	Spring 2020
SCE Duct bank on Wilshire Bl	Fall 2019	Spring 2020
SCE Duct bank on Ohio Av	Fall 2019	Spring 2020
Construction Staging Yard	Fall 2019	Winter 2019

Station/TBM Power Connection

Upcoming SCE Underground Electrical Work

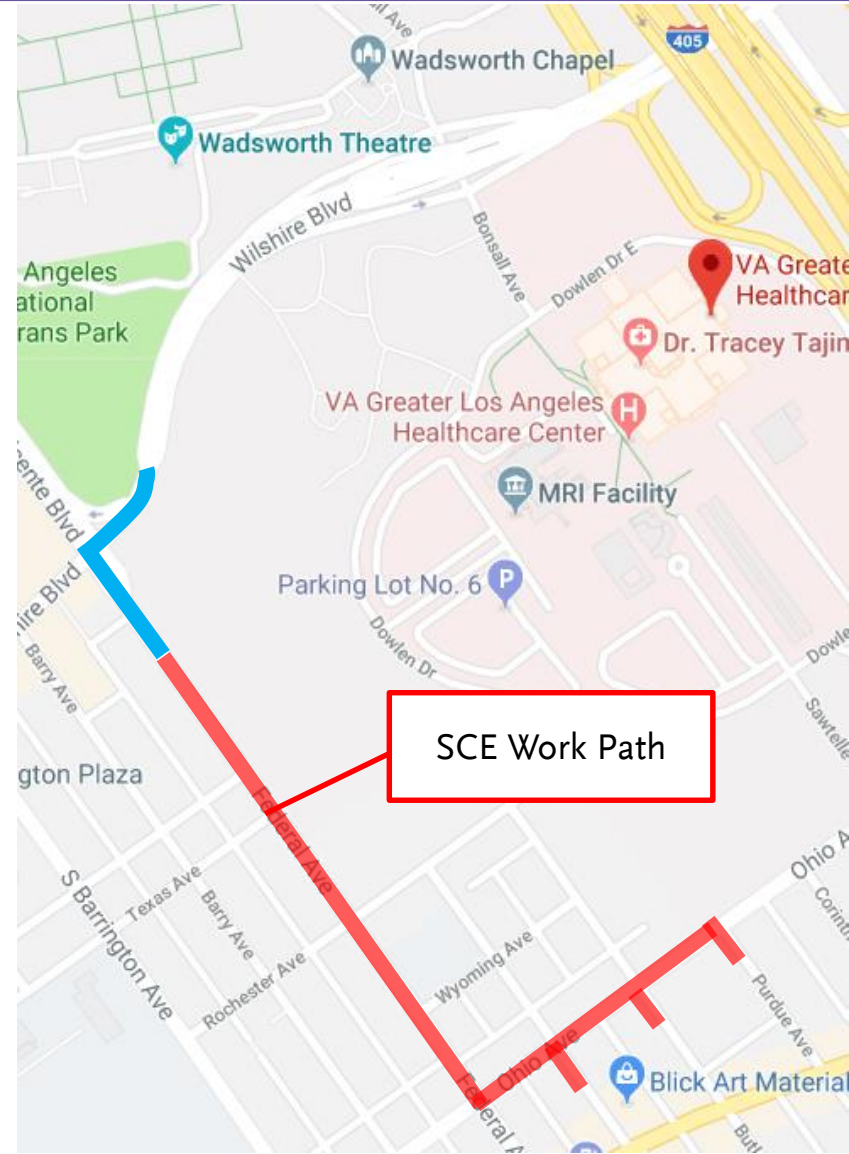
- Intermittent parking restrictions and traffic detours expected with turn restrictions
- Potential for two stages to occur simultaneously
- Upgrade will provide power necessary for construction and tunneling activities and operations of the future Westwood/VA Hospital Station

Monday - Friday

- Ohio/Federal: 6am to 4pm
- Wilshire/Federal: 9pm to 6am

Saturday - Sunday

- Ohio/Federal: 8am to 9pm
- Wilshire/Federal: 9pm to 6am



Station/TBM Power Connection

Upcoming SCE Underground Electrical Work

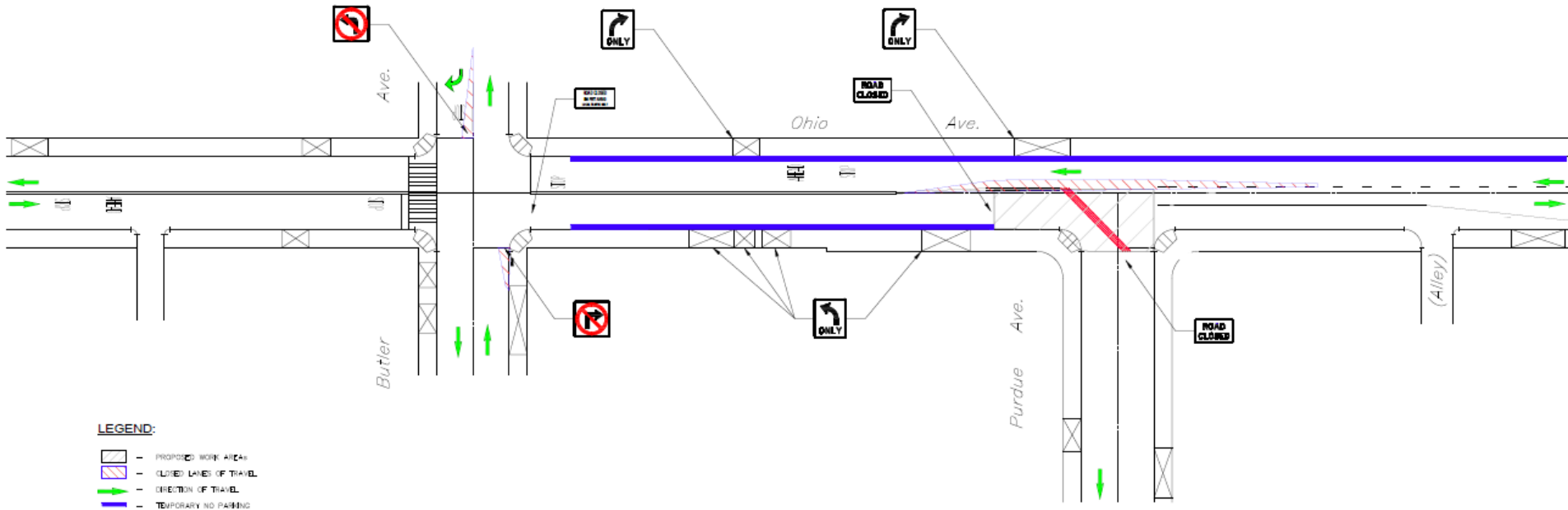
- Work anticipated to start on Monday, September 30 on Federal Ave. near Wilshire Blvd.
- LA County approved work hours: 9pm to 6am, weeknights only.



Upcoming SCE Underground Electrical Work

Mon – Fri 6am – 4pm, Sat – Sun 8am – 9pm

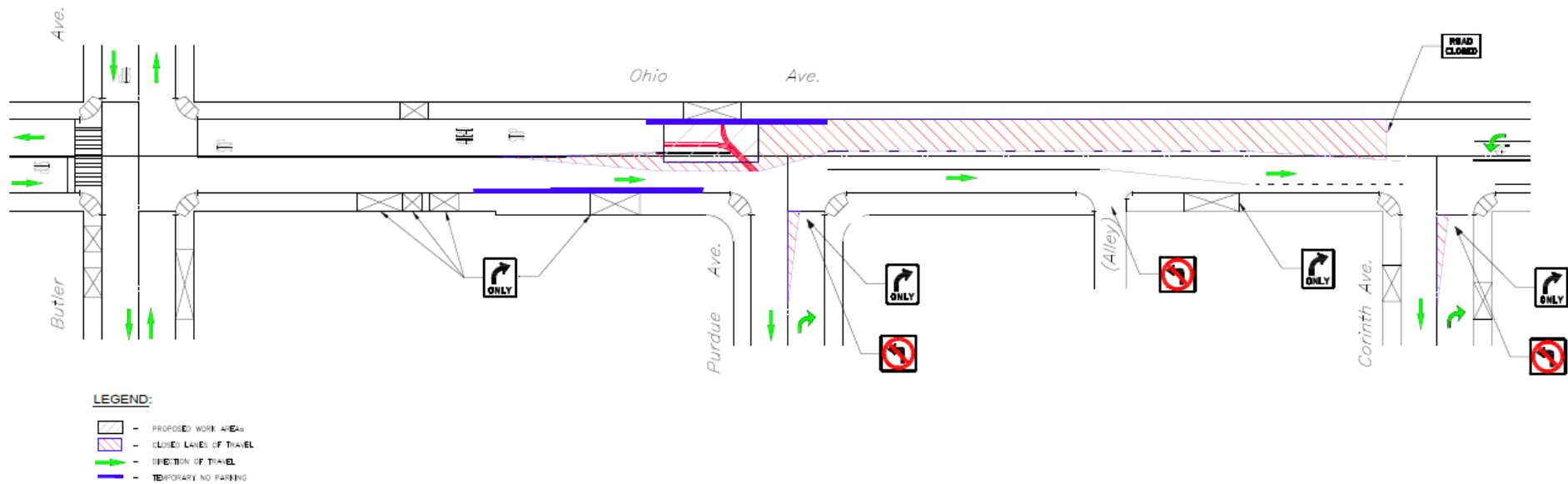
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Upcoming SCE Underground Electrical Work

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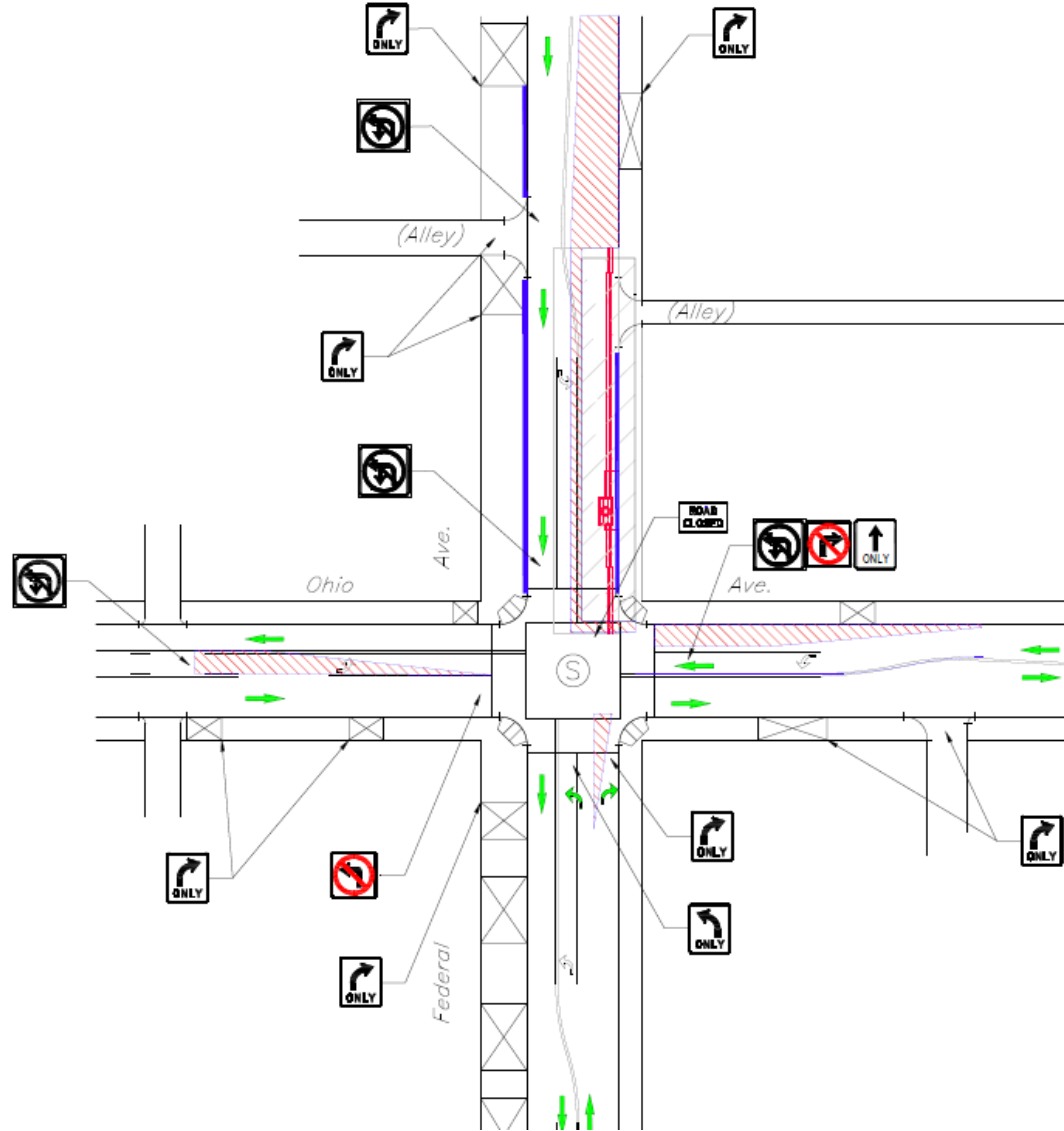
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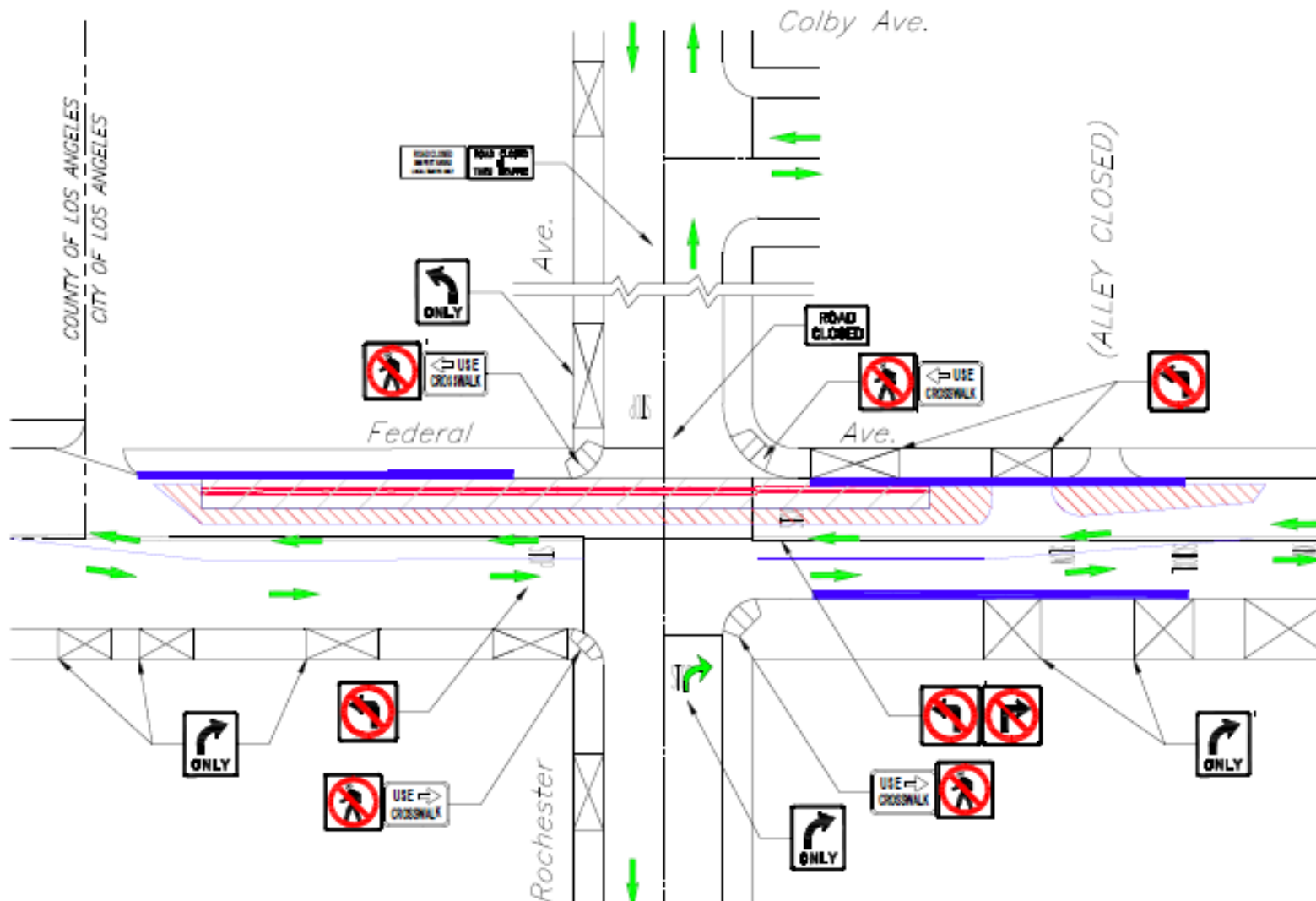
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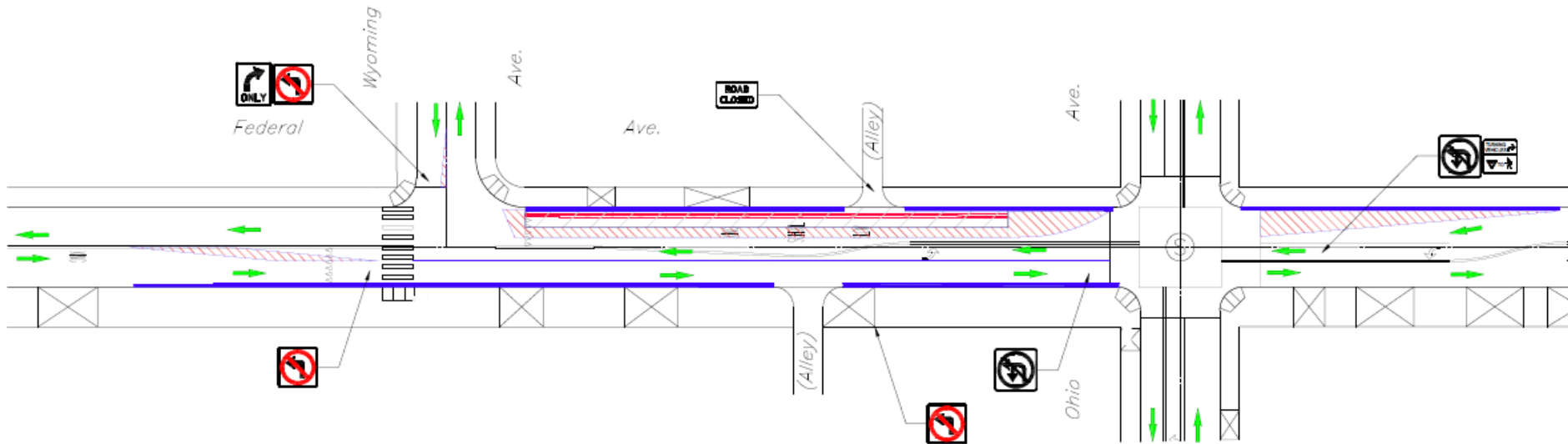
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Upcoming SCE Underground Electrical Work

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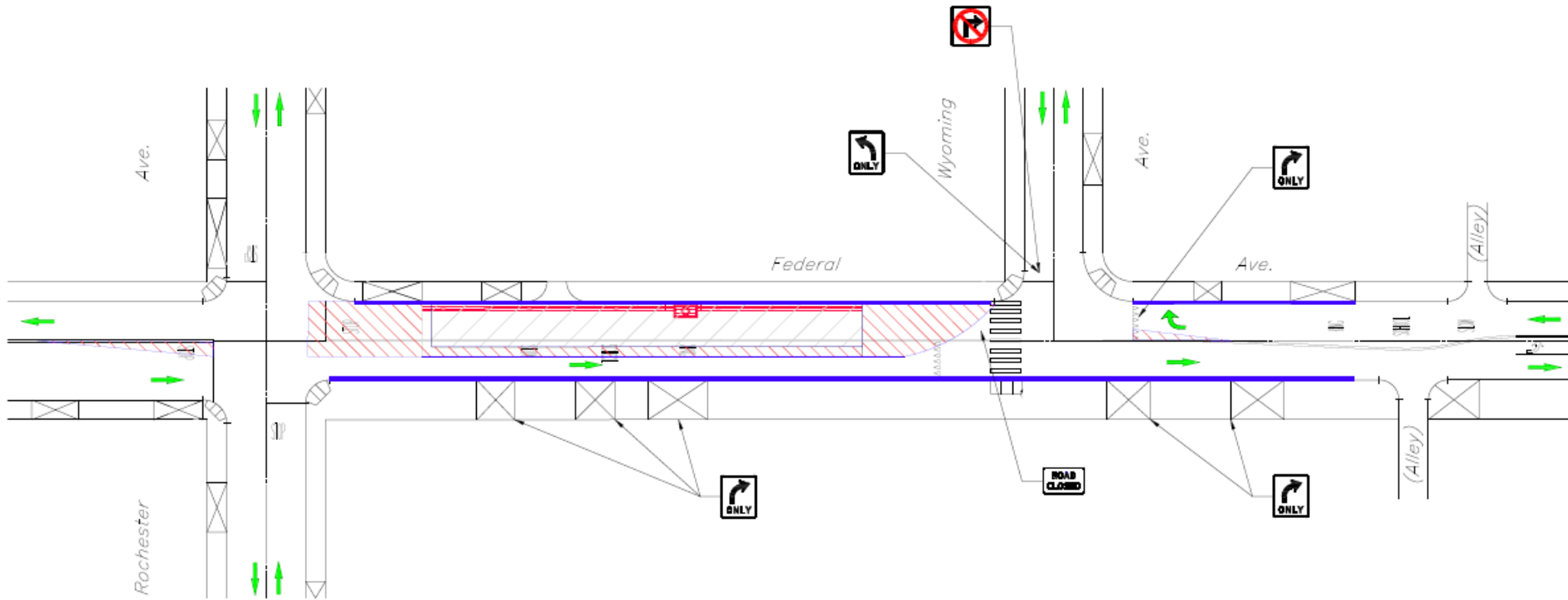
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Upcoming SCE Underground Electrical Work

Mon – Fri 6am – 4pm, Sat – Sun 8am – 9pm

DRAFT



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

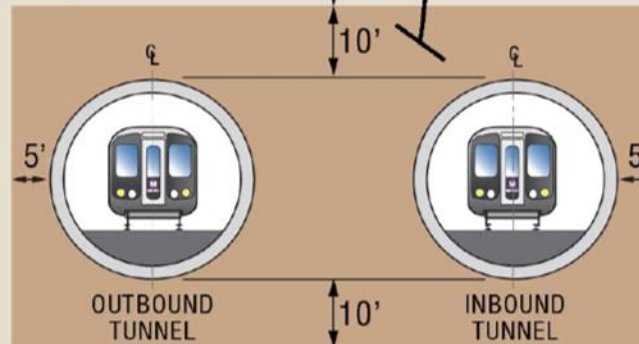
50' – 160'
Typical Depth

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



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

EAT SHOP PLAY



WESTWOOD
VILLAGE



Metro®

Metro's Eat Shop Play program supports local businesses during construction.

Benefits to participating businesses include:

- Personalized space online
- Print and digital ads
- Video and photo spotlights
- Social media and email marketing

Metro Business Interruption Fund

Helping local businesses as we build.
Purple Line Extension Update



BIF Information and Eligibility

- > Financial assistance to small “mom and pop” businesses with 25 or fewer full-time employees directly impacted by Metro Rail construction along three project areas
- > Businesses must be located immediately adjacent to the rail corridor and meet other eligibility requirements
- > Grant amount determined by loss of business revenue related to period of construction disruption
- > Businesses are eligible for up to \$50,000 per impact year

- > February 2019 Metro’s Board of Directors authorized the expansion of the BIF to Section 3 of the Purple Line Extension.
- > Pacific Coast Regional Small Business Development Corporation (PCR)
Phone: 213.739.2999



Metro

Next Community Meeting

Section 3

Section 3: Pre-Construction
Community Meeting

Thursday, November 14, 2019

6:30pm – 8pm

Belmont Village Senior Living

10475 Wilshire Bl

Los Angeles, CA 90024

Free on-site parking available



Metro

Stay Informed



213.922.6934



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