

Purple Line Extension

Beverly Hills Community Meeting

August 22, 2016



Purple Line Extension Project Alignment



Section 2 and 3 Status

	Under Construction	Forecasted Schedule	
	Section 1	Section 2	Section 3
Length	3.92 Miles	2.59 Miles	2.48 Miles
New Stations	Wilshire/La Brea Wilshire/Fairfax Wilshire/La Cienega	Wilshire/Rodeo Century City/ Constellation	Westwood/UCLA Westwood/VA Hospital
Pre-Construction Activities	Current - 2016	2016 - 2018	2025 - 2027
Construction	2015 - 2023	2018 - 2026	2027 - 2035
Operations	2024	2026	2035

PLE Section 1 Alignment



La Cienega Station



Original rendering shows length of the La Cienega underground station box on Wilshire Blvd from La Cienega to Tower Dr. **Updated rendering expected early 2017.**

Advance Utility Relocation (AUR)

- Major work complete
 - Fiber, AT&T, Water, Sewer, Storm Drain, Power, Gas
- Punch list items remain- anticipate Metro completion September 2016
- Utilities self-performing cable pulling – anticipated completion January 2017



Recent AUR work at Wilshire/La Cienega

Demolition Future Staging Yards

- City Council approved on July 19, 2016
- Work hours: 8am-5pm
- Hauling hours: 9am-3:30pm
- Anticipated 10 weeks
- Work activities include:
 - Tree removal
 - Protective sidewalk cover installation on Wilshire and Gale
 - Building demo
 - Hauling
 - Intermittent sidewalk closures
 - Intermittent curb lane closure on Wilshire during street frontage demo work.



La Cienega Station Gale Yard

- Demolition of buildings on Gale and Wilshire - September 2016*
- Future Gale Staging Yard

* After bird nesting season



La Cienega Station La Cienega Yard

 Future La Cienega Staging Yard

 Buildings to be demolished
in September 2016*

* After bird nesting season



Staging Yards

Staging Yard Activities and Equipment

- Yard usage: 7am to 11pm, (11pm to 7am as needed)
- Sound wall is 20-24 feet high
- Maintenance of equipment
- Deliveries

Mitigations

- Must comply with COBH noise requirements
- Noise Control Signage
- Low Impact Back up alarms
- Acoustical Insulation
- Metro 5 Step Noise Plan



Eat Shop Play promotions and construction phase artwork



S La Brea Staging Yard Mitigation signage and 4th of July Flag Display at the yards

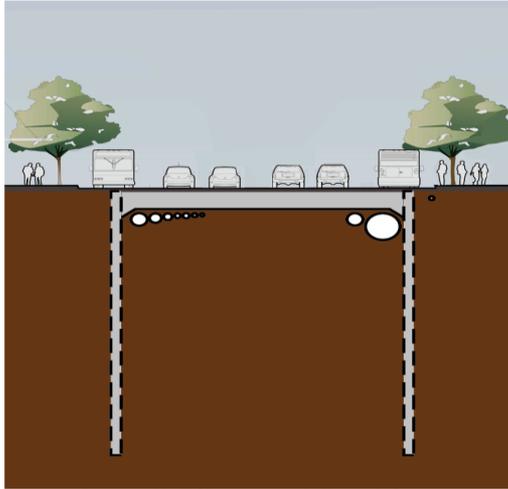


Purple Line Extension La Cienega Schedule

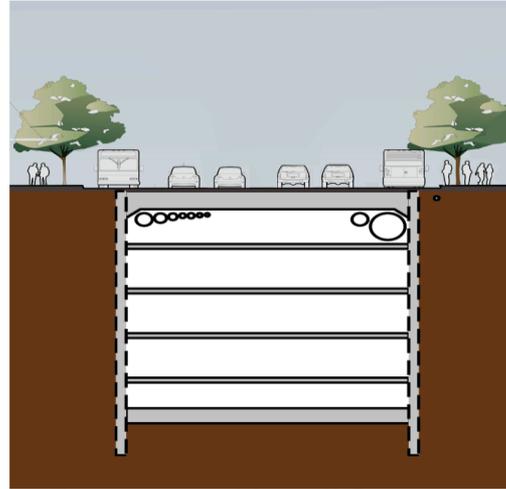
*As of August 15, 2016. Subject to Change

Year	2014				2015				2016				2017				2018				2019				2020				2021				2022				2023							
Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4								
Advanced Utility Relocation					AUR																																							
Piling													Piling																															
Decking																	Install																											
Station Excavation/Shoring																	Excavation/Shoring																											
Tunneling																					Tunneling																							
Station																					Station																							
Testing																																												
Revenue																																												

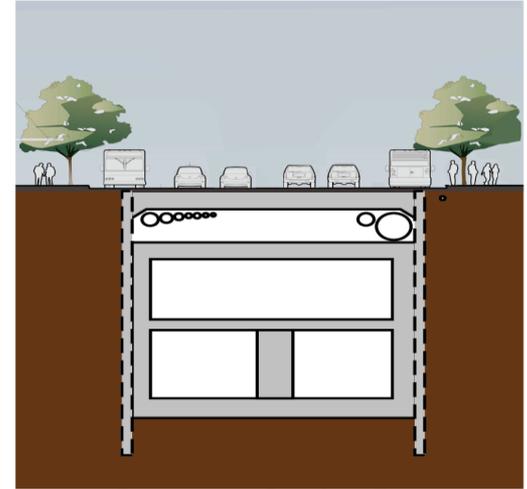
Station Construction Overview



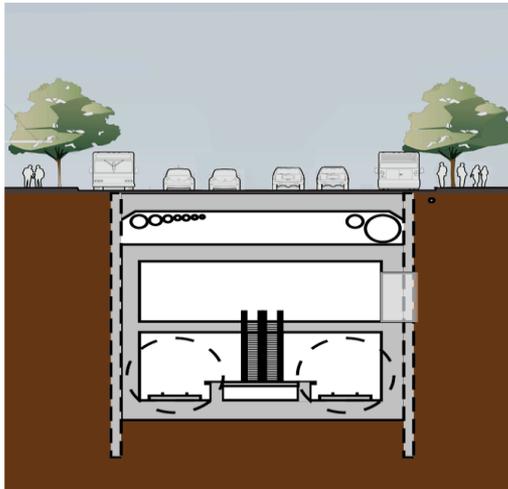
Install Piles and Decking



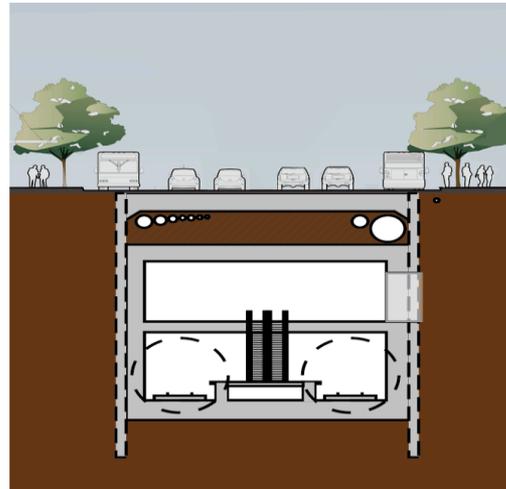
**Excavate and Install Supports
(from beneath decking)**



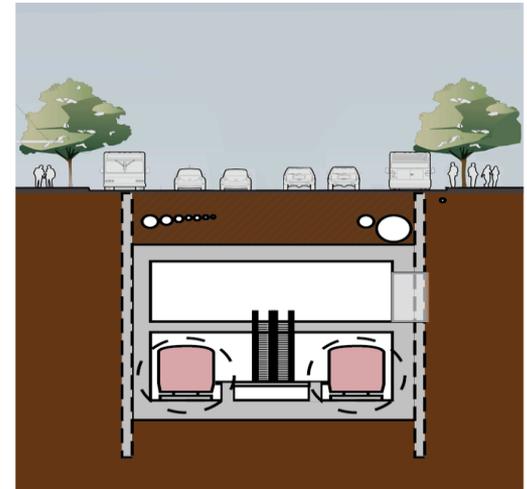
Construct Station Box



Complete Station Box



Backfill Above Structure



**Remove Decking and
Restore Street**

Potholing/Survey Traffic Reconfiguration

- If approved, work will take place during off-peak hours
 - Day: 7am-4pm
 - Night: 8pm-7am
- Use temporary lane closures similar to AUR
- Investigating utility conflicts with pile line
- Anything not labeled on existing plans

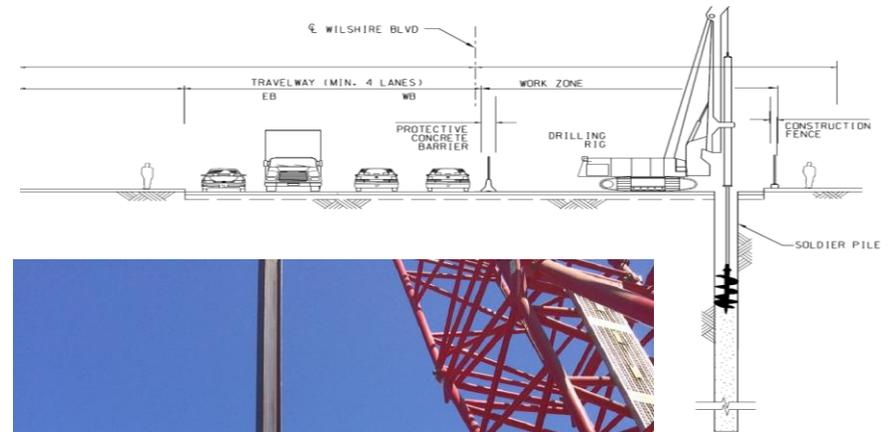


Potholing work for vault installation at La Cienega

Pile Drilling Installation

- 3-6 months, south side of Wilshire
- 3-6 months, north side of Wilshire

- On Wilshire, from San Vicente to La Cienega
- Pile installation includes:
 - Rig to construct 95ft (L) deep
 - Crane lifting 95ft (L) , 24 Inch H-piles into holes
 - 1-2 piles per day
 - Drilling, pile installation and backfilled concrete completed same day
- All work occurs behind a k-rail (concrete barriers).
- Operation anticipated to take approximately 3-6 months on each side of the street.
- Typical work hours 7am-8pm with potential nighttime work hours from 8pm-10pm cleanup.
- Wilshire is reduced to two lanes in each direction
- Additional weekend closures may be needed to install piles in intersection of Wilshire/La Cienega.



Piling work at Wilshire/La Brea

Pile Installation Traffic Reconfiguration

- Wilshire Reconfiguration, San Vicente to La Cienega
 - 2 lane westbound Wilshire, 2 lanes eastbound Wilshire
 - No medians, no parking on Wilshire



Decking Installation

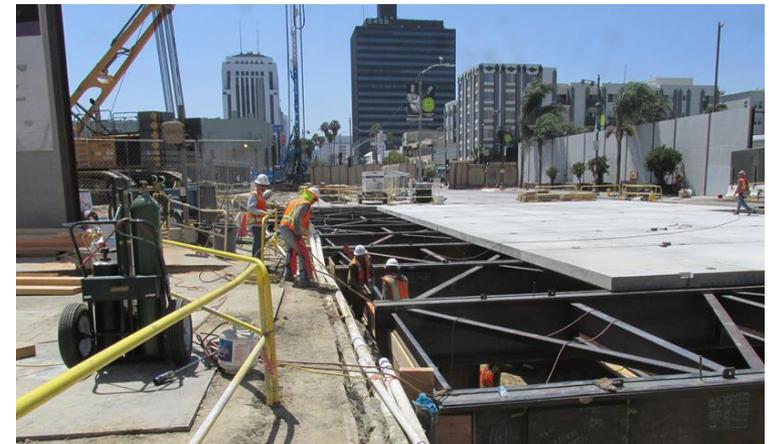
- Approx. 20 weekends
- 8pm Fri – 6am Mon

Decking

- On Wilshire, between San Vicente and La Cienega
- Construction of a concrete deck, curb to curb
- Sidewalks will be maintained, or pedestrian detours created
- Decking will serve as the temporary street surface
- Traffic will travel on the installed deck panels while the station is constructed underground
- La Cienega Station:
 - Approx. 1000 feet long
 - Approx. 70 feet wide
 - Approx. 60 feet deep
- **Will work closely with First Responders on emergency access and safety**
- **Additional activities under decking closures: jet grouting, piling, temp. civil improvements.**

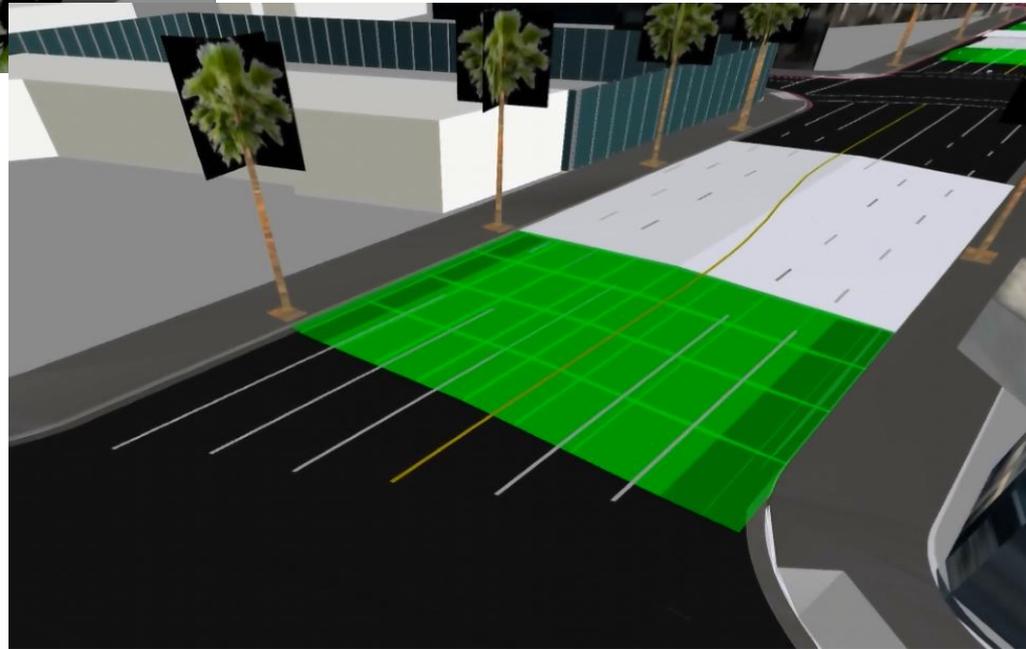


Asphalt removal on Wilshire Blvd near Detroit St



Steel Beams welding prior to concrete deck panel installation.

Decking Installation Set Up





La Brea Decking



Jet Grouting

- Work hours TBD by Council

Overview

- Jet grouting is a construction process that uses high-pressure air and grout to create a deep soil-concrete block.
- The purpose of jet grouting is to reinforce and strengthen the soil with concrete to support tunneling and cross-passage

Locations

- Jet Grouting will occur at 16 locations along Wilshire between La Cienega and Western.
- There may be **2 potential jet grouting locations at La Cienega** that will take place at each end of the station box near La Cienega and at Tower Drive.
- Approximately **6 weeks** at each location.

Work Hours

- 7am-8pm, major work
- 8pm-10pm, cleanup



Examples of jet grouting at Wilshire and Detroit behind K-rail

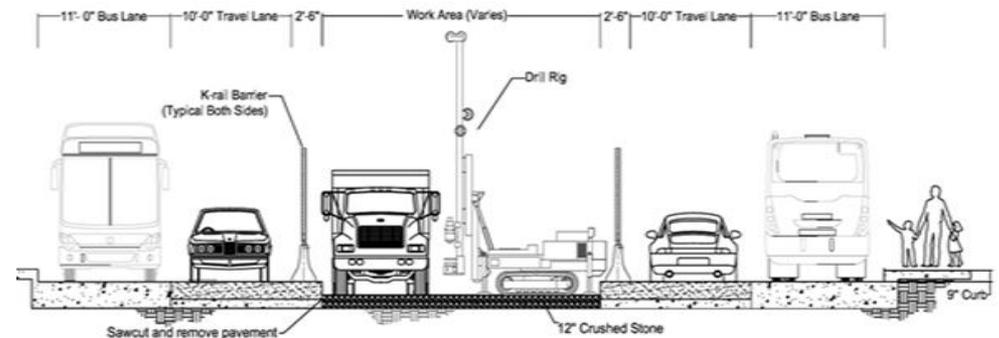
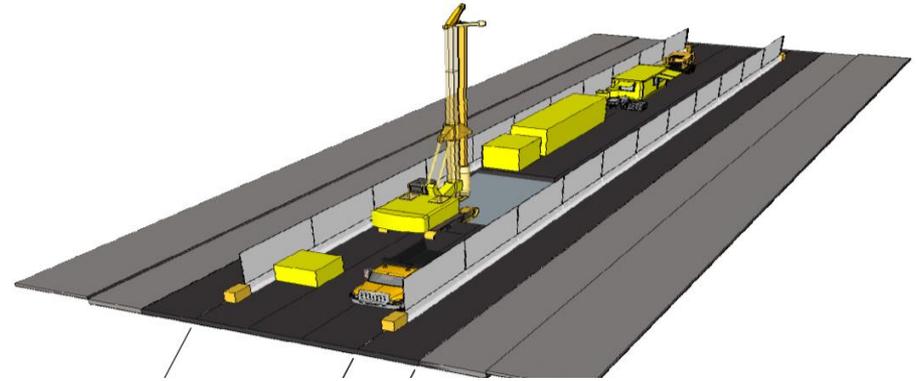
Jet Grouting Activities and Layout

Work Activities

- Potholing, street level excavation , vertical drilling , trucking, cement silos, pumps, generators

Layout

- Concrete Barriers placed on the middle lanes of Wilshire Blvd
- Lanes reduced to two lanes each direction at Jet grouting locations
- Bus stops will be temporarily relocated as required



Deck Openings

What:

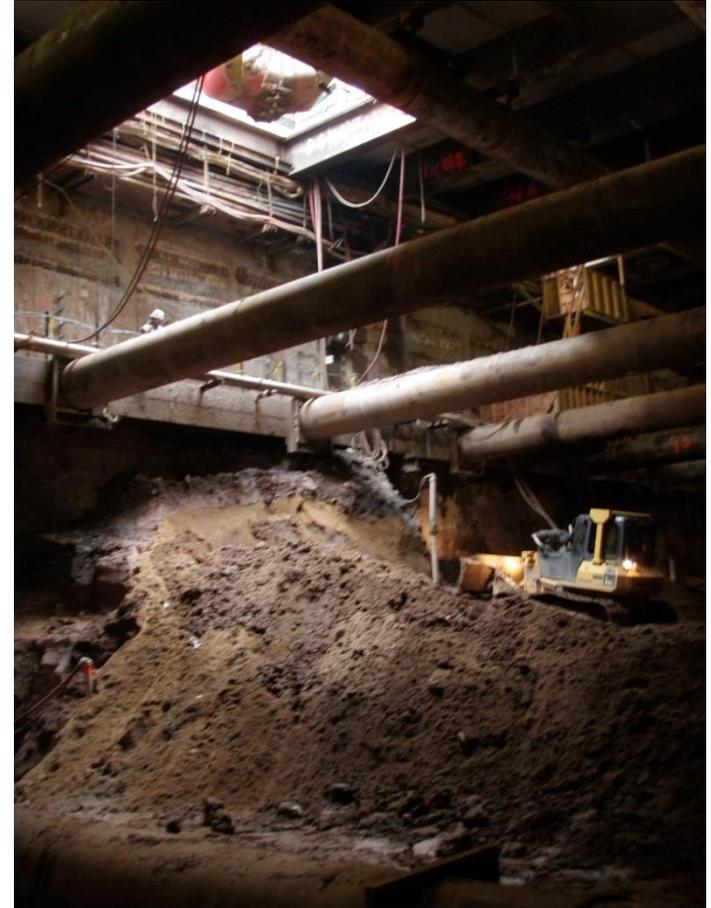
- Deck openings are openings of the street-deck for the purpose of delivering materials for underground construction.
- Deck openings will be done at locations of the deck that are designed to open and close.
- Deck openings will occur periodically, as needed
- Deck panels are 8ftx14ft

When:

- Following La Cienega decking, late 2017
- Throughout the duration of the project

How:

- Off-peak hour lane closures
 - If approved, afterhours work can continue



Example of a deck opening from underneath the deck

Station Excavation/Shoring/Construction

- 24/7 underground

- Work primarily occurs underground beneath concrete decking
- Surface activities include
 - Deliveries
 - Soil removal
 - Concrete pumping
- Material delivery and hauling occurs day/night



Example of underground station construction

Tunneling

Tunnel Boring Machine (TBM)

- 24/7 underground

- Twin Tunnel Boring Machines (TBM)
 - TBM Naming and Art contest in 2017/2018!
- Not expected to generate surface noise or vibration
- Moves approximately 50 feet/day
- TBM will be removed from the ground at La Cienega



Decking Removal Street Restoration

Decking

- 17 weekends
- On Wilshire, between San Vicente and La Cienega
- Removal of concrete deck, curb to curb
- Sidewalks will be maintained, or pedestrian detours created
- Decking will serve as the temporary street surface
- Schedule will mimic Decking Installation
- **Will work closely with First Responders on emergency access and safety**
- **Additional activities under decking closures: jet grouting, piling, temp. civil improvements.**

Street Restoration

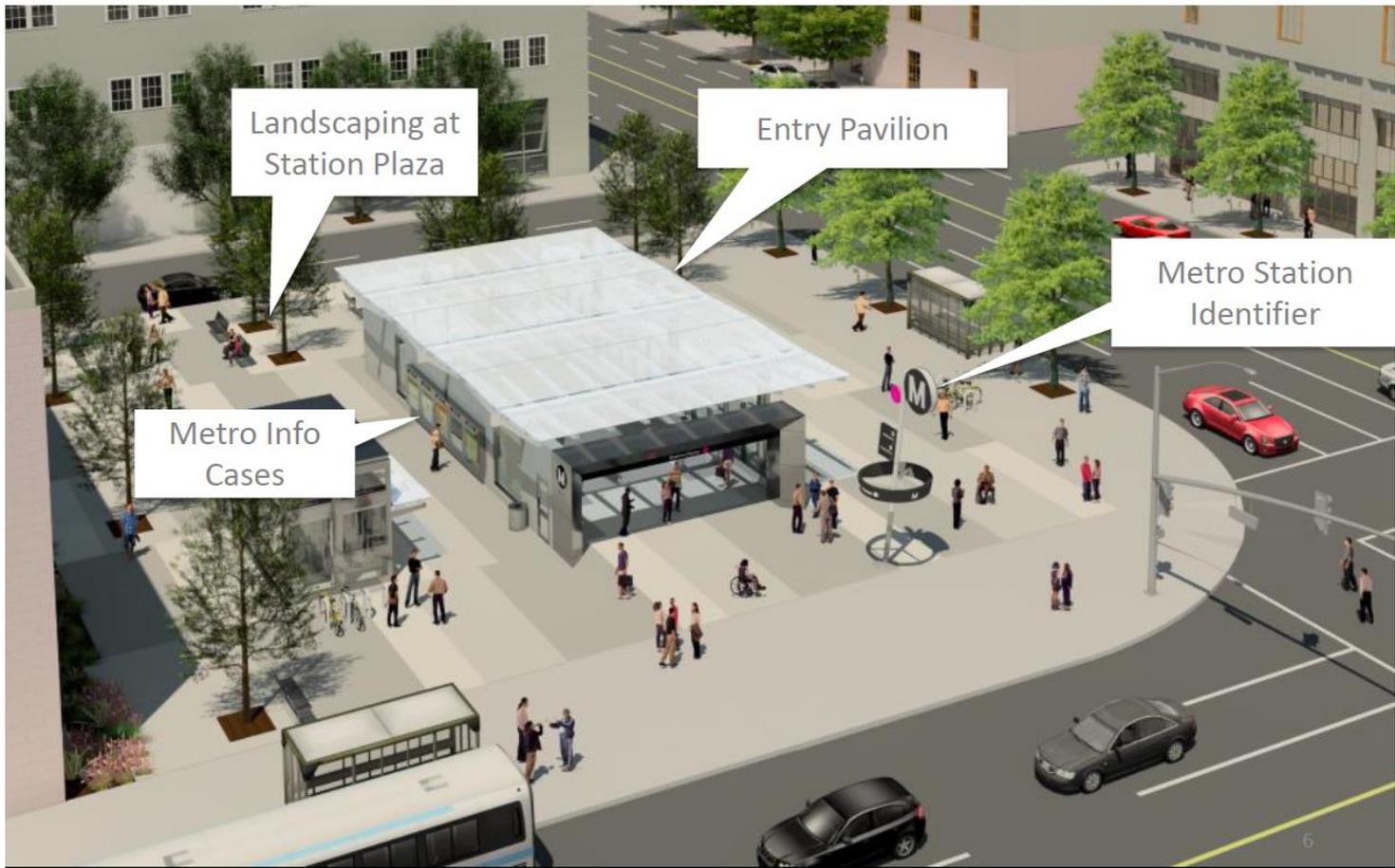
- Once decking is removed permanent street surface will be completed.
- New street paved with new curbs, gutters, sidewalks



Decking will be removed once station is constructed underground.

Station Overview

Typical Subway Station Entrance



Stay in Touch

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