

VTA's BART Silicon Valley Phase II Extension Project

13th Street Neighborhood Advisory Committee Meeting

February 21, 2019

Joyce Ellington Branch Library
491 E Empire Street
San José, CA 95112

**BART Silicon Valley Phase II
Extension Project**



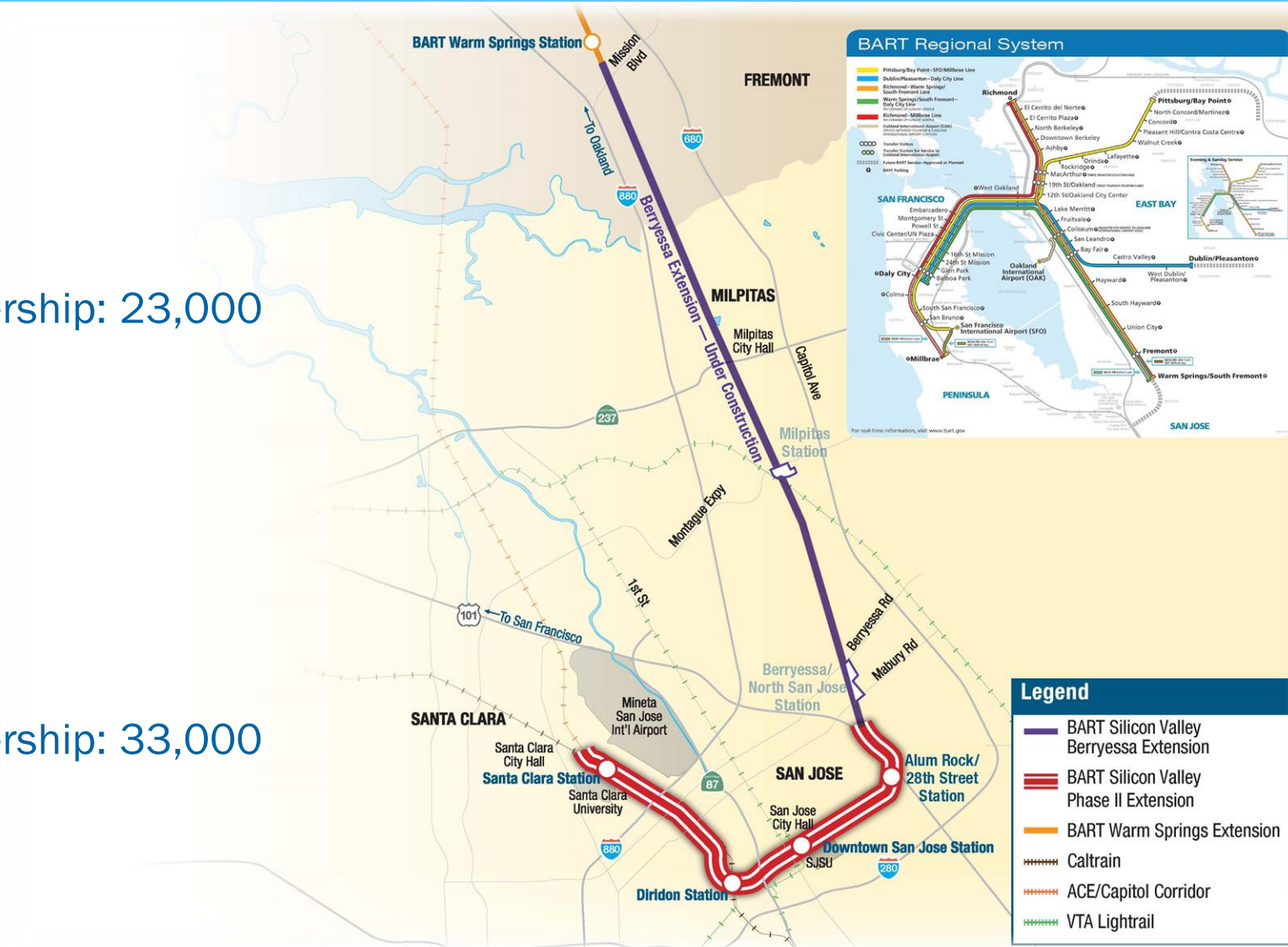
VTA's BART Silicon Valley

Phase I Extension

- 10-mile extension under construction
- 2 stations
- Anticipated opening year weekday ridership: 23,000

Phase II Extension

- 6-mile extension (5-mile tunnel)
- 4 stations
- Newhall Yard Maintenance Facility
- Anticipated opening year weekday ridership: 33,000



VTA/BART Partnership

Santa Clara County is not part of the BART districts. A Comprehensive Agreement provides a framework for the partnership.

Santa Clara Valley Transportation Authority (VTA) Responsibilities

- Pay all costs associated with the extension
- Contracting/Procurement
- Construct to applicable BART/industry standards, codes, and regulations
- Retain ownership of infrastructure

Bay Area Rapid Transit (BART) Responsibilities

- Technical assistance
- Operations
- Maintenance
- Service Planning



Project Funding Strategy

Projected Local & State Funds:

\$4.186 Billion

<input checked="" type="checkbox"/> 2000 Measure A Sales Tax	\$1.0 Billion
<input checked="" type="checkbox"/> 2016 Measure B Sales Tax	\$1.5 Billion
<input checked="" type="checkbox"/> Local Measures Revenues to fund financing and escalation costs ¹	\$0.4 Billion
<input checked="" type="checkbox"/> Regional Measure 3	\$0.375 Billion
<input checked="" type="checkbox"/> State Transit & Intercity Rail Capital Program	\$0.750 Billion
<input checked="" type="checkbox"/> State Traffic Congestion Relief Program	\$0.161 Billion

Projected Federal Funds:

\$1.395 Billion

- ☐ FTA Expedited Project Delivery

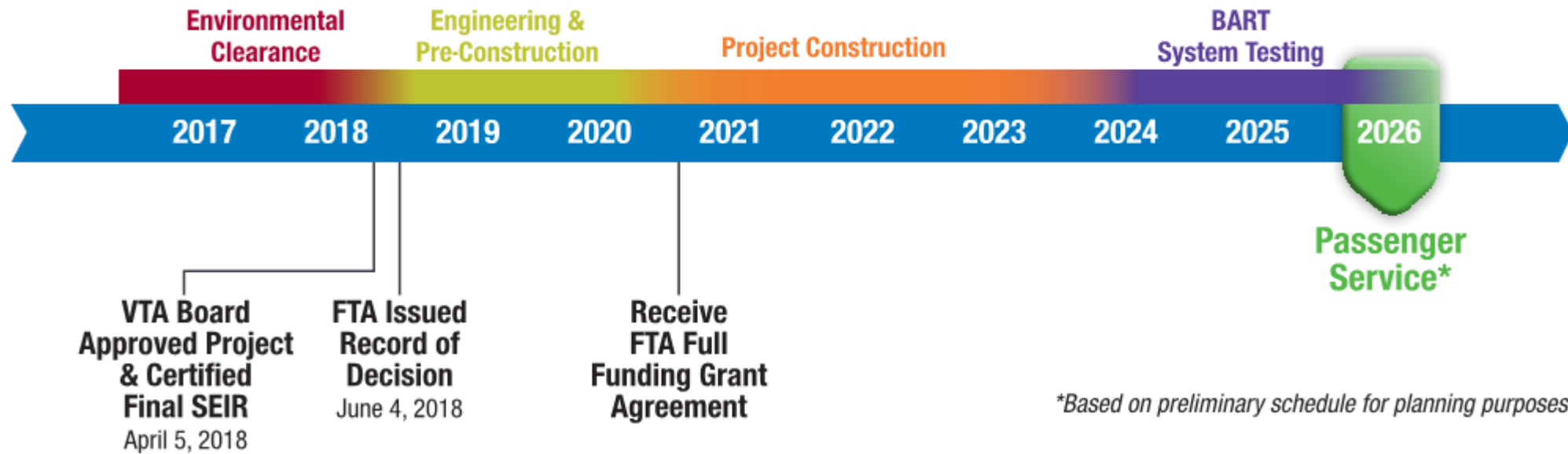
Projected Funding:

\$5.581 Billion²

¹. Financing costs assumed to be available from 2000 Measure A and/or 2016 Measure B.

². Funding strategy to cover project capital costs, unallocated contingency, and financing costs during construction. Funding strategy will be updated as project advances.

Phase II Extension Project Schedule



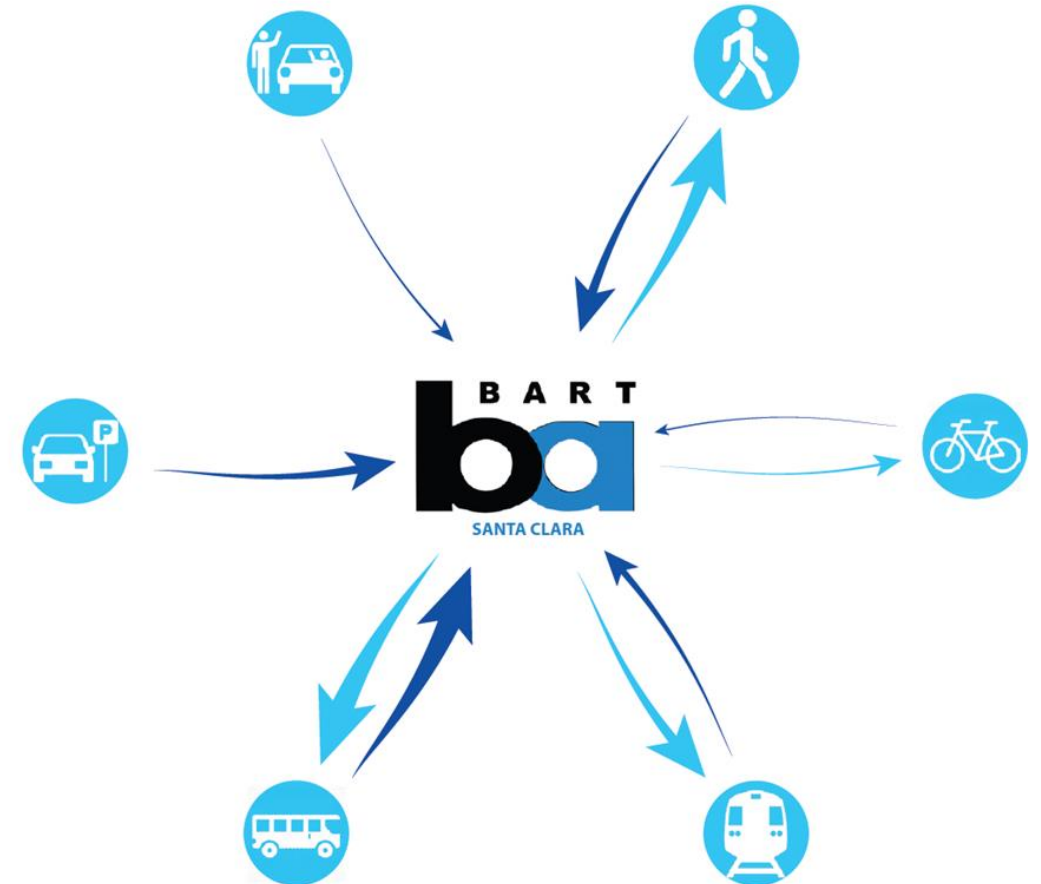
Project Benefits – Mode Shift

Reduce dependence on autos through improved transit connectivity



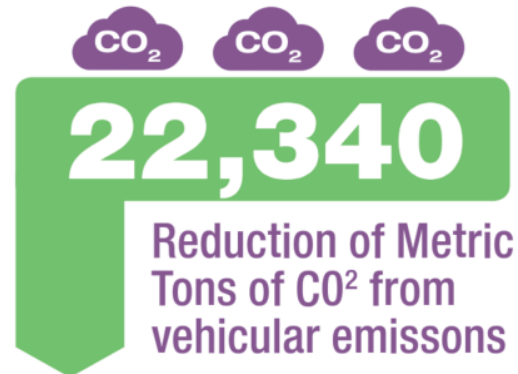
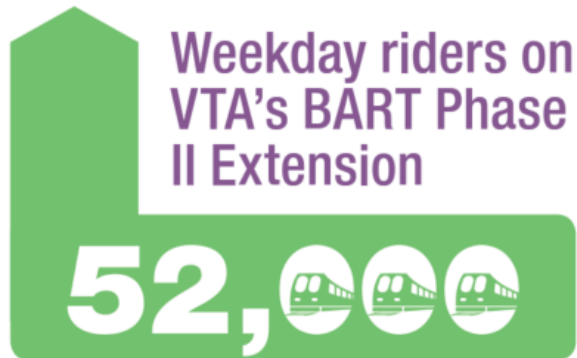
Project Benefits – Intermodal Connections

Regional Transit Connectivity to:



Project Benefits – Improved Air Quality

Reduced congestion through increased transit ridership and reduced Vehicle Miles Traveled



Phase II Project

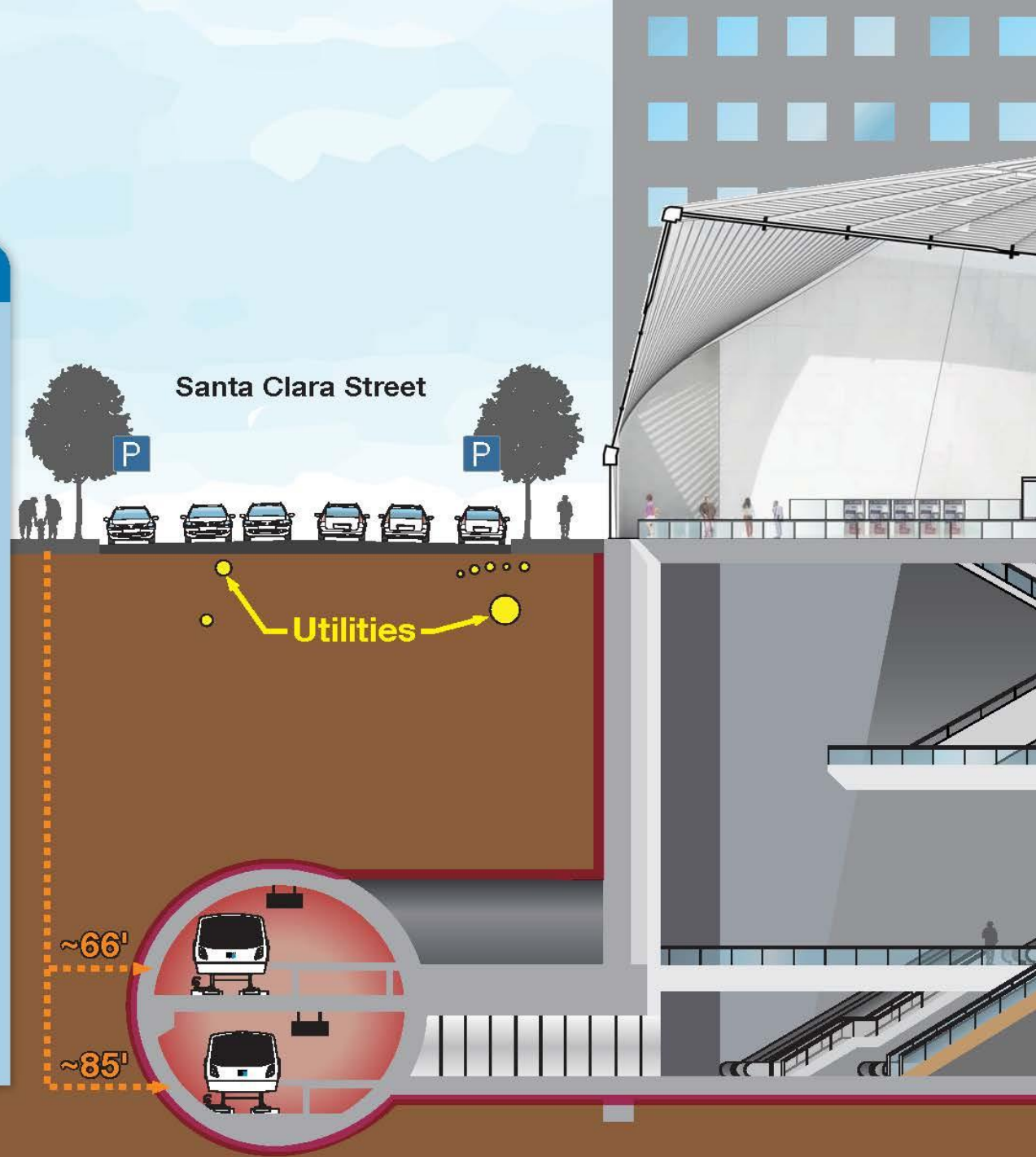


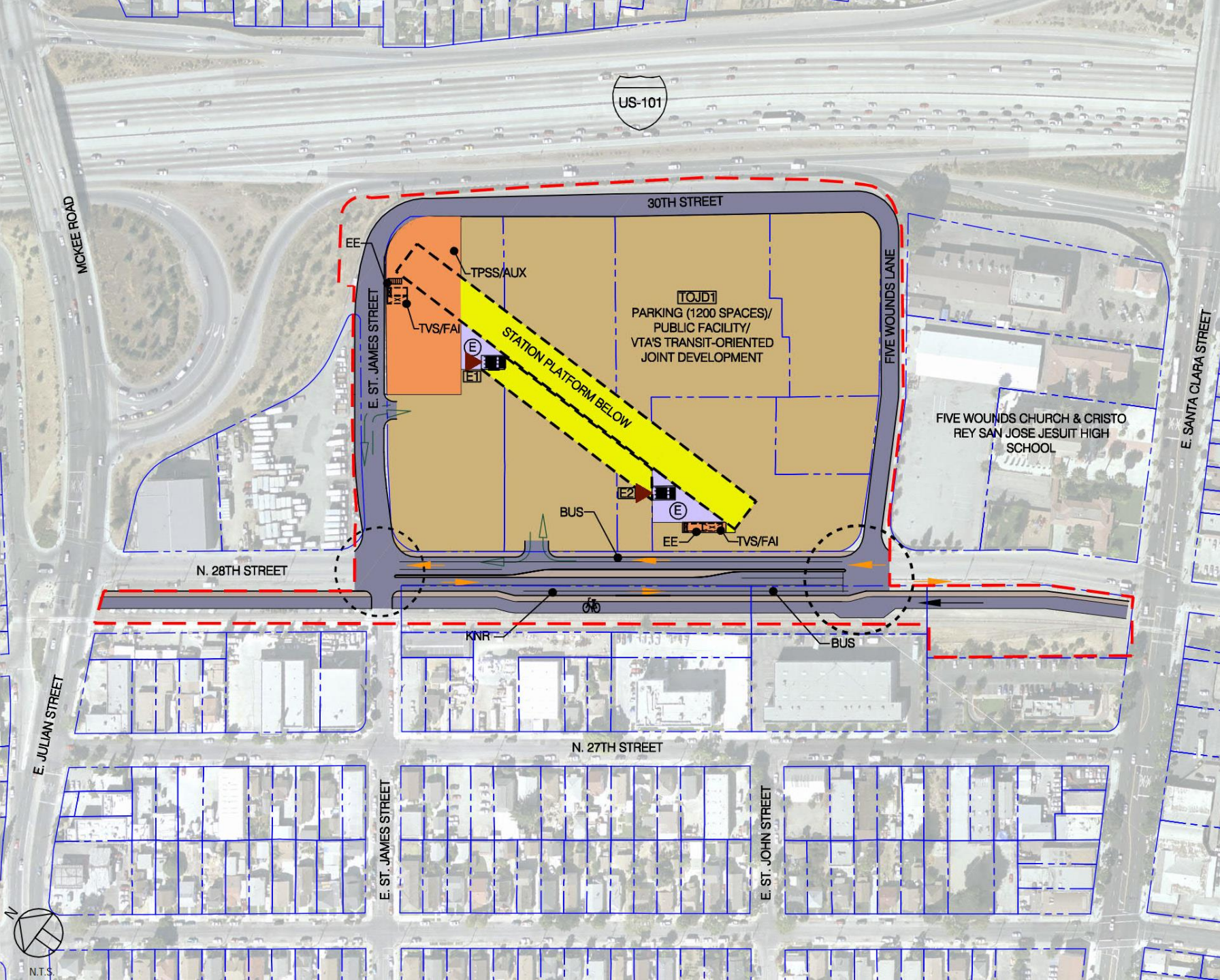
What will construction look like?



Construction of the Downtown San José Station will occur off-street, similar to typical development.





















- 1 Lane closures may be necessary throughout duration of construction.
- 2 Detours will be provided for pedestrians and bicyclists.





Alum Rock/28th Street Station Site Plan

LEGEND

-  STATION ENTRANCE OPTIONS
-  UNDERGROUND STATION, CONCOURSE, & SYSTEM FACILITIES
-  ABOVE AND BELOW GROUND SYSTEMS FACILITIES
-  PARKING/PUBLIC FACILITY/ VTA'S TRANSIT-ORIENTED JOINT DEVELOPMENT
-  ROADWAY MODIFICATIONS
-  CONSTRUCTION STAGING AREA
-  KEY PEDESTRIAN LINKAGE
-  BUS CIRCULATION
-  VEHICLE ACCESS
-  NEW SIGNALIZED INTERSECTION
-  BIKE FACILITY
-  ELEVATOR
-  EMERGENCY EXIT (PASSENGER; SERVICE ENTRY)
-  ENTRANCE #
-  FRESH AIR INTAKE
-  KISS-AND-RIDE
-  VTA'S TRANSIT-ORIENTED JOINT DEVELOPMENT LOCATION #
-  TRACTION POWER SUBSTATION
-  TUNNEL VENTILATION SHAFT
-  AUXILIARY POWER SUBSTATION

Source: Final SEIS/SEIR

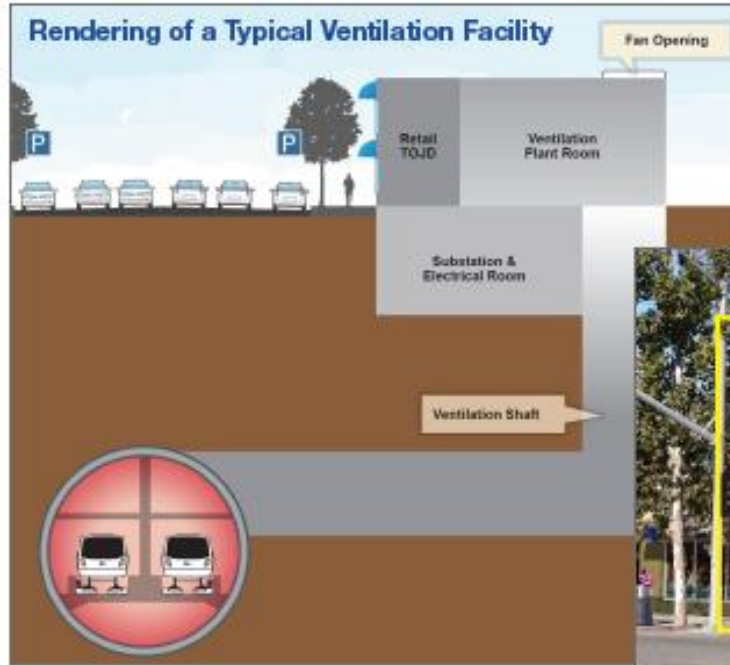
13th Street Ventilation Facility

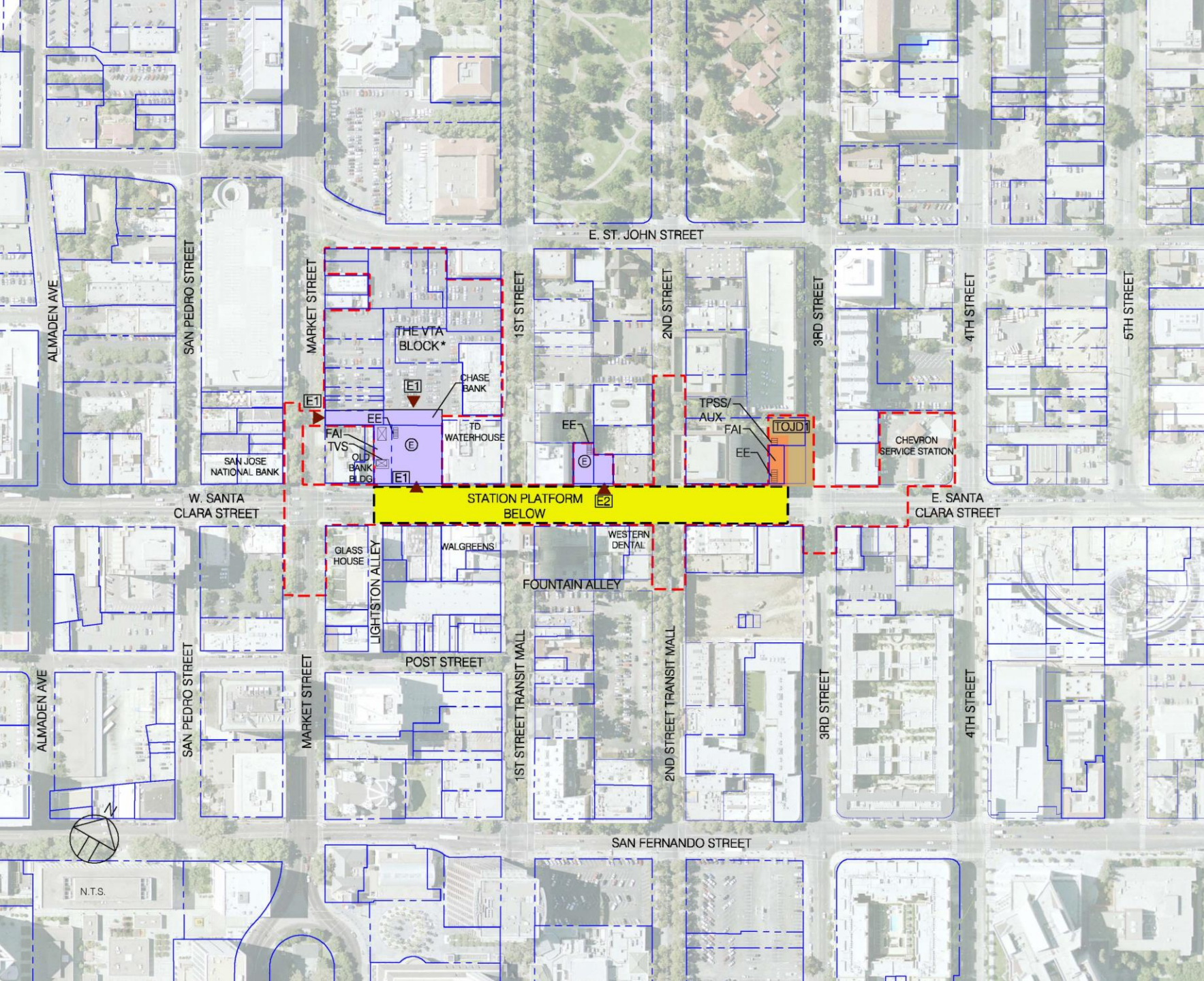


- Ventilation structures circulate air in and out of the tunnel during emergency situations, system testing, and regular tunnel maintenance
- Facility includes: fans, dampers, above-ground structure for equipment storage, and below-ground vent shaft that connects tunnel to above-ground facility

13th Street Ventilation Facility















- Transit-oriented development (TOD) will incorporate ventilation structure into existing neighborhood
- Construction will happen off-street
 - Temporary sidewalk and lane closures possible





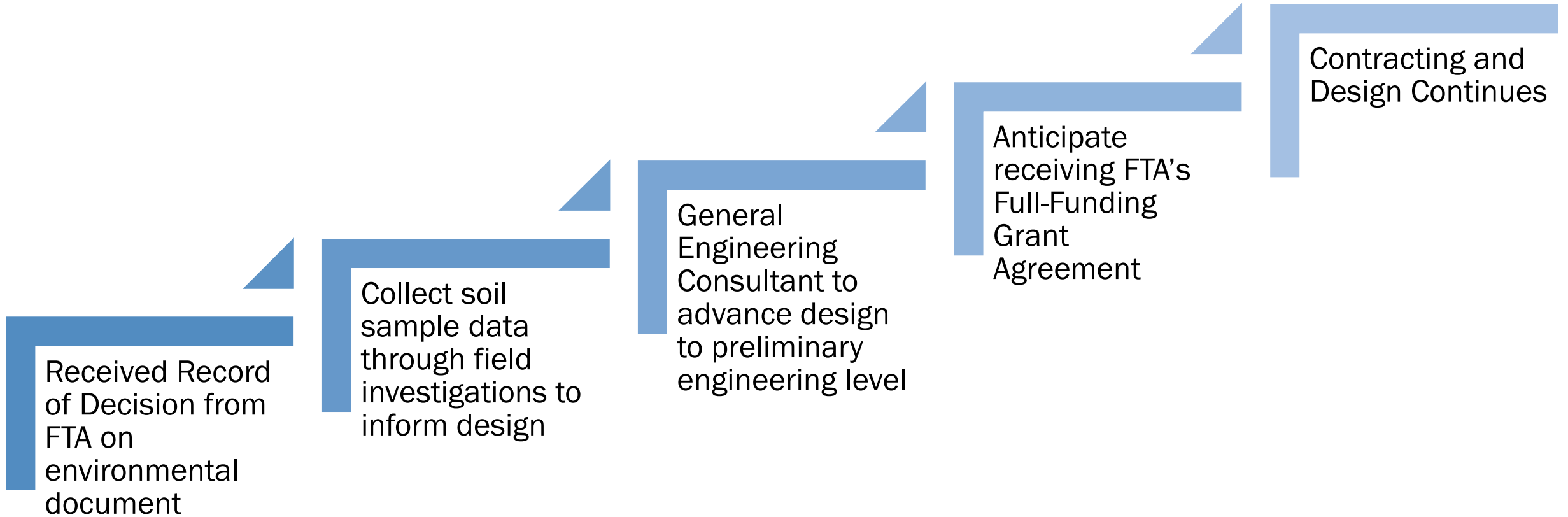
Downtown San José Station Site Plan

LEGEND

-  STATION ENTRANCE
-  UNDERGROUND STATION & SYSTEM FACILITIES
-  ABOVE AND BELOW GROUND SYSTEMS FACILITIES
-  PUBLIC FACILITY/ VTA'S TRANSIT-ORIENTED JOINT DEVELOPMENT
-  CONSTRUCTION STAGING AREA
-  ELEVATOR
-  EMERGENCY EXIT (PASSENGER SERVICE ENTRY)
-  ENTRANCE #
-  FRESH AIR INTAKE
-  VTA'S TRANSIT-ORIENTED JOINT DEVELOPMENT LOCATION #
-  TRACTION POWER SUBSTATION
-  TUNNEL VENTILATION SHAFT
-  AUXILIARY POWER SUBSTATION
-  PROPERTY OWNED BY VTA

Source: Final SEIS/SEIR

Two Year Look Ahead



Contracting Strategy: Design-Build

Design-Build (DB)

- Preliminary level of design completed
- Design Build Contractor procured to complete design and build based on their approved means and methods

Proposed DB Project Elements

- Tunnel & Heavy Civil
 - *Tunneling, excavation and structural concrete work of portals, stations, and ventilation facilities*
- Parking Garages
 - *Parking structures at Alum Rock/28th Street and Santa Clara stations*

Contracting Strategy: Design-Bid-Build

Design-Bid-Build (DBB)

- Design completed to final level
- Bid, evaluation, and award
- Contractor performs work

Proposed DBB Project Elements

- Enabling Works
 - *Advanced work to facilitate tunneling and construction activities.*
- Station Fit-Out
 - *Station finishes including exterior, interior architecture, vertical circulation elements, etc.*
- Tracks & Systems
 - *Track and systems installation and testing*
- Newhall Maintenance Facility/Santa Clara Station

Major Project Areas



Utility & Geotechnical Investigations Equipment

Utility

Truck-mounted high-powered vacuum removes soil around each utility



Geotechnical

Truck-mounted drill rig

- Drills small diameter holes up to 150' deep to extract soil and groundwater samples



How the Data are Used



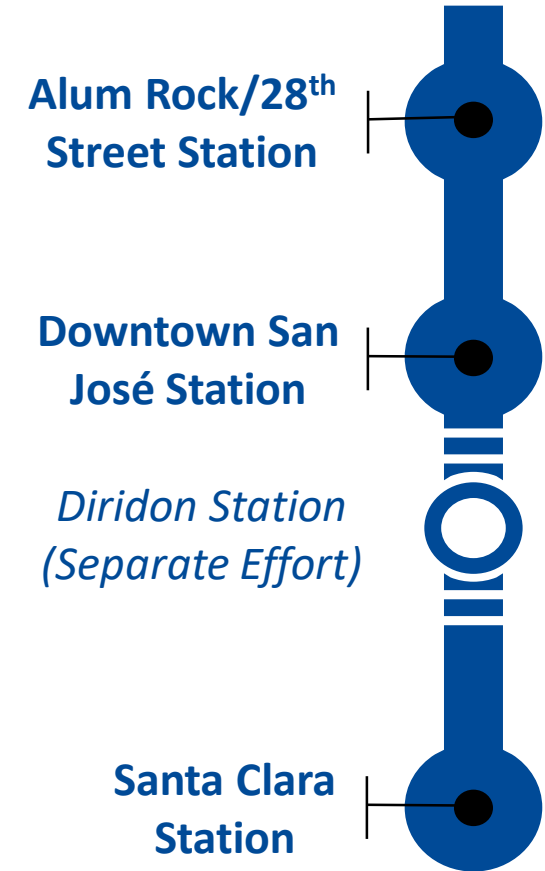
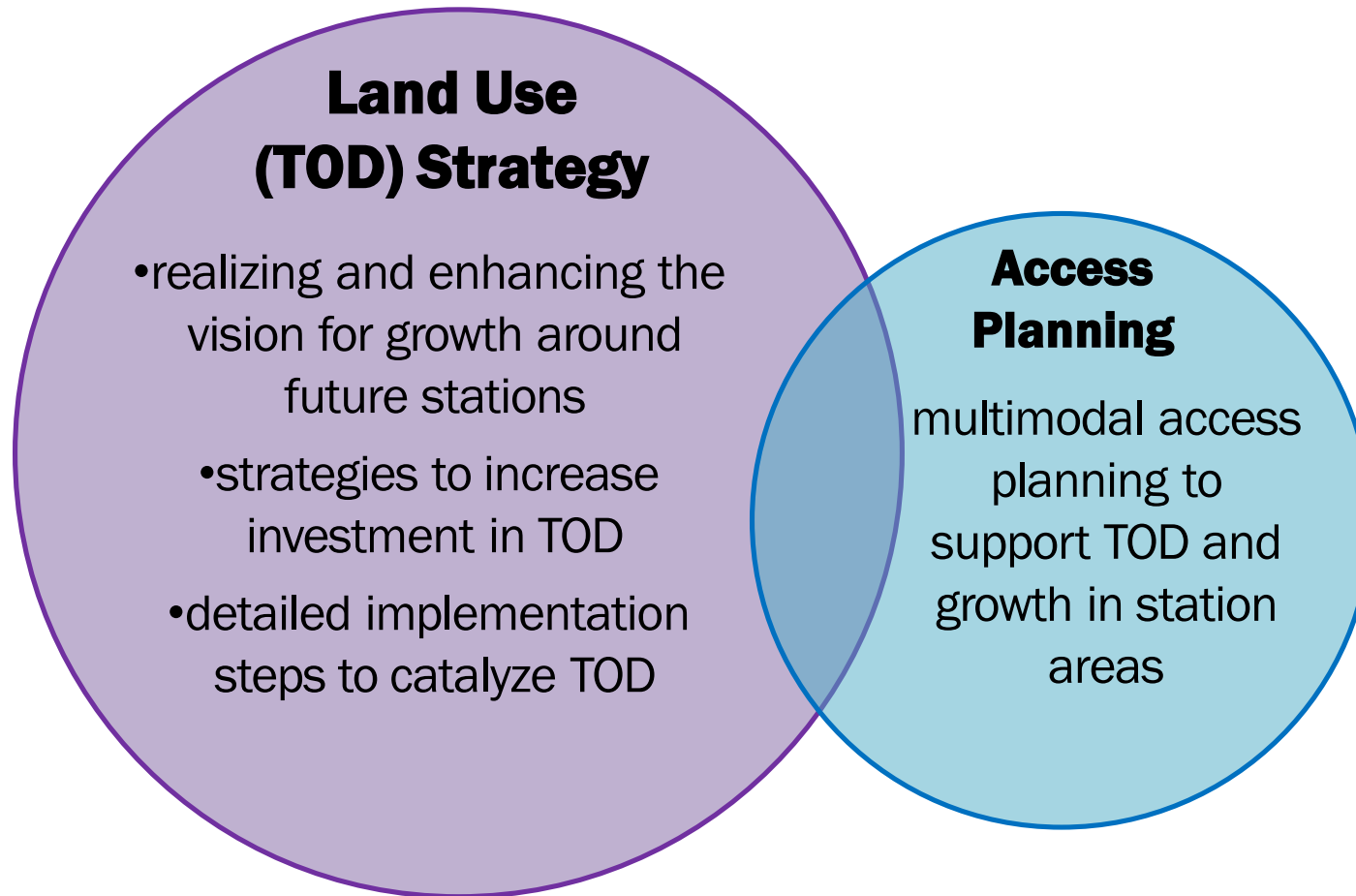
- Soil samples are transported to a lab where they are tested for engineering properties including moisture content, shear strength, dry density, compaction, and several others
- Results of the data assist engineers when designing foundations and other structural elements of the future tunnel and stations

Current Downtown San José Field Work

- Location: E. Santa Clara, Market St, and N 3rd Street
- Duration: January 21 – end of March
- Work Hours: 7:00 a.m. – 5:00 p.m.
- What to Expect: Work occurs adjacent to street curb/gutter, in parking spaces, on the sidewalk, and in the traffic lane. Equipment generates ambient noise equivalent to a lawn mower.
- Impacts: At least one traffic lane open at all times; work will be restored once work is complete for the day



Transit-Oriented Development (TOD) Strategy Study



Study Phases and Public Engagement

background conditions

Jan.-May 2018

- What facilities and plans exist today?
- **“what is good TOD?”** – Public workshop (April ‘18)
- **“background conditions”** – Public workshop (June ‘18)

corridor opportunities & constraints

Mar.-Sept. 2018

- What land can be redeveloped? What’s underutilized today?
- What are physical limitations to development?
- **“opportunities and constraints”** – Public workshop (Sept.)

implementation strategies & tools

Oct.- June 2019

- What are policy and market barriers?
- **“overcoming TOD barriers”** – Public workshop (Nov. ‘18)
- How do we make TODs a reality?
- **“TOD strategies and policy recommendations”** – Public Workshop (April ‘19)

final report

Apr.- June 2019

- Strategies and funding tools for Cities
- **“final recommendations”** – Public Meeting (June ‘19)
- present implementation strategies to city councils



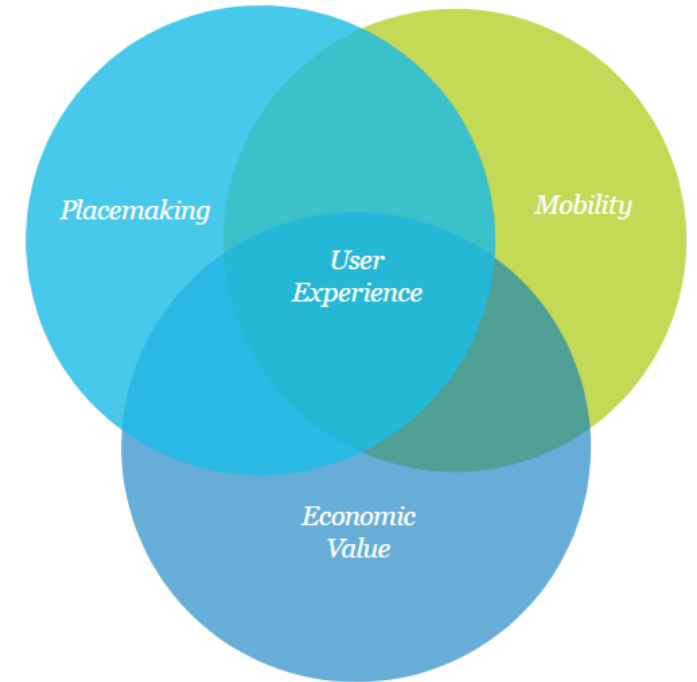
City and Agency Engagement

- City collaboration is essential for Study's success
 - monthly coordination meetings with City staff
 - City, BART, and VTA staff involved in Technical Advisory Group



Study Outcome

- provide a “path to TOCs playbook” that includes guidance for cities to realize Transit-Oriented Communities (TOCs) around each BART Station
 - **land use and zoning recommendations** to support balanced, 24-hour places
 - **development guidelines** for creating pedestrian-friendly environments
 - prioritized **infrastructure and access improvements** to serve Transit-Oriented Communities
 - **policies that facilitate** good Transit-Oriented Development
 - **financing tools** for implementation



TOD STRATEGIES AND POLICY RECOMMENDATIONS

Join us as we preview strategies and policy recommendations that will guide growth around your station!

Two Workshops

- April 16, 2019, 5:30 – 6:30 PM
San José City Hall, Wing 118/119
200 E. Santa Clara Street, San José
- April 17, 2019, 5:30 – 6:30 PM
Mexican Heritage Plaza
1700 Alum Rock Avenue, San José

General Outreach & Stakeholder Engagement to Date



Public Meetings and Tabling Events

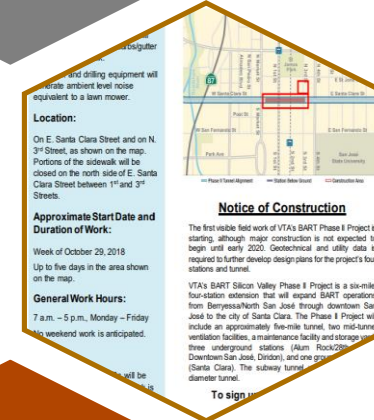


Tours and Site Visits

Neighborhood and Business Association Presentations



Field Work Noticing Door to Door



Mailers, E-Newsletters, Fact Sheets, Webinar



Community Working Group Workshops

Small Business Marketing & Assistance Program



Small Business Marketing and Assistance Program (MAP)

Marketing Support

- Support marketing campaigns
- Provide wayfinding

Technical Support

- Provide assistance to identify resources, such as Small Business Administration, prior to preconstruction and construction activities
- Mentorship Program/consulting

Get Involved With the Phase II Project

- Public Community Meetings
- Field Offices
- Help name the Tunnel Boring Machine
- Artwork along construction sites
- Support businesses near construction
- Spread the word!

Visit www.vta.org/bart

Sign up to receive updates at: <http://www.vta.org/phase2info>

Thank you!
Questions?