

San Jose Downtown Association August 24, 2017



port

87

DIRIDON STATION

NOBTH OPTION

DIRIDON STATION SOUTH OPTION

Solutions that move you

raylor Rd

DOWNTOWN

WEST OPTION

SAN JOSE STATION

DOWNTOWN SAN JOSE STATION EAST OPTION

THANK YOU!

San Jose Downtown Association for inviting us

&

San Jose First United Methodist Church for hosting us



Agenda

- Background & Schedule
- Environmental Process
- Tunnel Options
- Station Options
- Public Engagement & Key Decision Dates
- Q & A



Background & Schedule



Solutions that move you

4

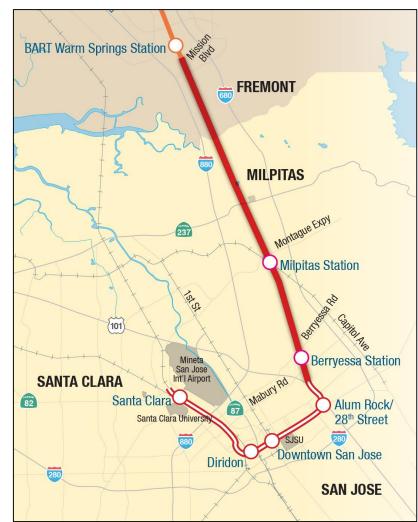
Phase I Extension

- 10-mile extension under construction
- 2 stations: Milpitas & San Jose Berryessa
- Anticipated opening year ridership: 23,000 per average weekday
- \$2.4 billion

Phase II Extension

- 6-mile extension (5-mile tunnel)
- 4 stations (Alum Rock/28th Street, Downtown San Jose, Diridon, Santa Clara)
- Newhall Yard Maintenance Facility
- Anticipated opening year ridership: 33,000 per average weekday
- \$4.7 billion*

VTA's BART Silicon Valley

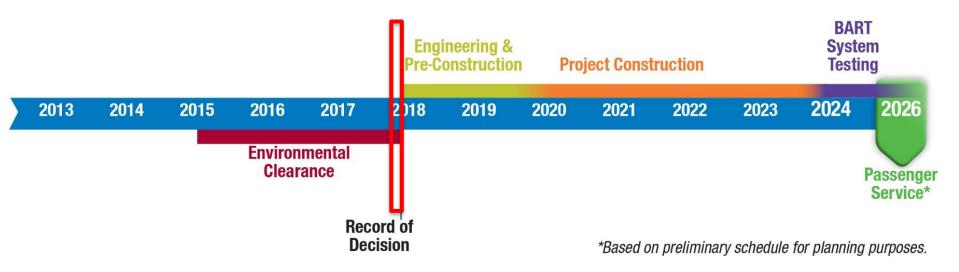


*Pre-Risk Assessed \$, excludes finance costs



Phase II Extension Project Schedule

Phase II Extension





Phase II Extension Project Funding Strategy

Project Cost:	\$4.69 Billion ¹
 Expended Funds: 	\$160 Million
Measure A Sales Tax & TCRP	
O Projected Local & State Funds:	\$3.25 Billion
Existing Measure A Sales Tax	
2016 Sales Tax Measure B	
State Transit & Intercity Rail Capital Program ²	
O Projected Federal Funds:	\$1.5 Billion
FTA New Starts	
Projected Funding:	\$4.91 Billion ³

- ¹ As part of the Federal New Starts review process, FTA will conduct a risk evaluation and establish with VTA the contingency levels for the project.
- ² VTA is targeting the maximum State Transit & Intercity Rail Capital Program amount of \$750 million. The current program is competitive and any allocation awarded to VTA could be less than the target amount.
- ³ The amount included in the funding strategy assumes pre-risk assessed cost and excludes finance costs.



VTA/BART Partnership

Santa Clara Valley Transportation Authority (VTA) Responsibilities

- Pay all costs associated with the extension
- Contracting/Procurement
- Construct to BART standards
- Retain ownership of infrastructure

Bay Area Rapid Transit (BART) Responsibilities

- Technical assistance
- Operations
- Maintenance
- Fare policy



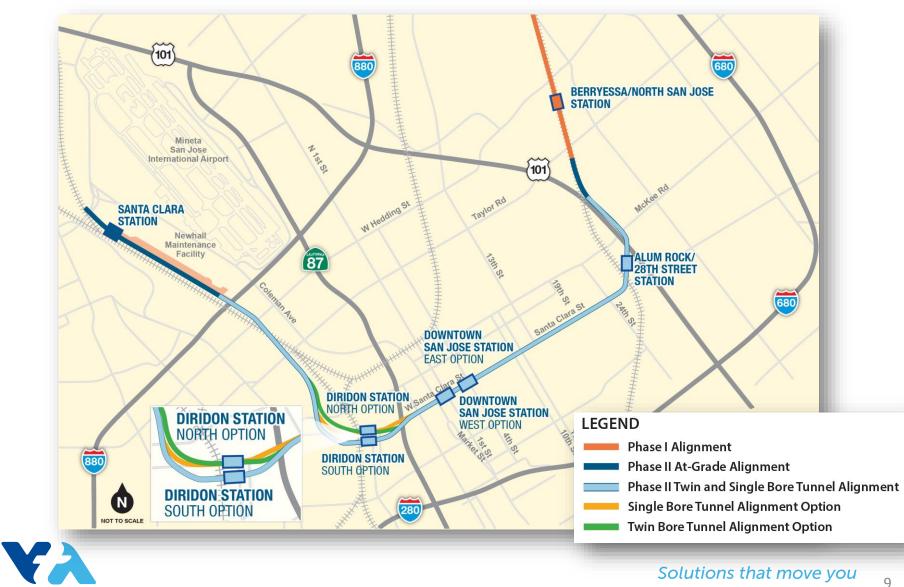


Santa Clara County is not part of the BART districts.

A Comprehensive Agreement provides a framework for the partnership.



Phase II Extension Project

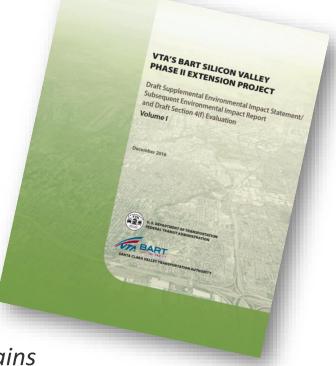


Environmental Process



State & Federal Environmental Topics Analyzed ...

- ... Transportation
- ... Air Quality
- ... Biological Resources & Wetlands
- ... Community Facilities & Public Services
- ... Cultural Resources
- ... Geology, Soils, and Seismicity
- ... Hazards and Hazardous Materials
- ... Land Use
- ... Noise & Vibration
- ... Socioeconomics
- ... Visual Quality & Aesthetics
- ... Water Resources, Water Quality, and Floodplains





Previous Environmental Documents

- 2016 Draft Supplemental EIS/Subsequent EIR: 6-mile project
- 2011 Final 2nd Supplemental EIR: 10-mile project
- 2010 Draft 2nd Supplemental EIR: 10-mile project
- 2010 Record of Decision: 10-mile project
- 2010 Final EIS: 10- and 16-mile projects
- 2009 Draft EIS: 10- and 16-mile projects
- 2007 Final Supplemental EIR: 16-mile project
- 2007 Draft Supplemental EIR: 16-mile project
- 2004 Final EIR: 16-mile project
- 2004 Draft EIS/EIR: 16-mile project





Summary of Comments Received

- Support for the project or support for various options
- Comments on the Project Description
 - Alternatives alignments in the vicinity of US-101 & TOJD
 - Station locations Downtown San Jose, Diridon & Santa Clara
 - Ventilation structure locations
- Comments on Project Impacts
 - Traffic and circulation impacts during construction
 - Parking loss during and after construction in the Diridon Station area
 - Noise and vibration impacts during construction and operation
 - Tunneling under properties
 - Twin-Bore and Single-Bore tunneling methodologies



- Responses to all comments received are being prepared
- Comments and responses will be included in Final SEIS/SEIR
- Final SEIS/SEIR will identify options that will be included in the recommended project description
- Final SEIS/SEIR targeted to be released in late 2017



Mitigation Monitoring and Reporting Program (MMRP)

- Identifies specific mitigation measures, requirements, and reporting procedures
 - More coordination and plan development with city partners

Construction Outreach Management Program (COMP)

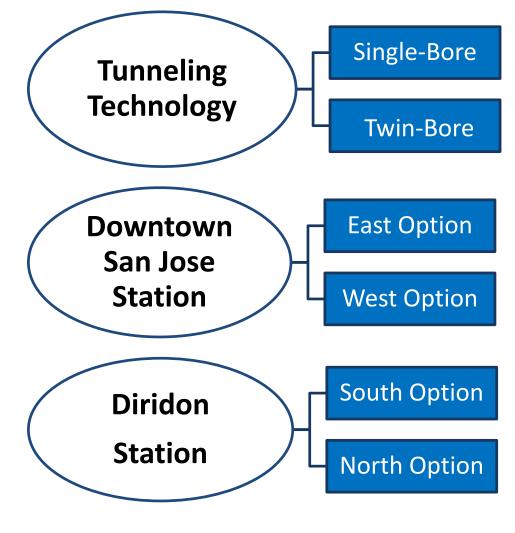
- Pre-construction and construction plans to be developed in coordination with city partners
 - Construction Education & Outreach Plan
 - Construction Transportation Management Plan
 - Emergency Services Coordination Plan



Options Under Consideration



Options Under Consideration





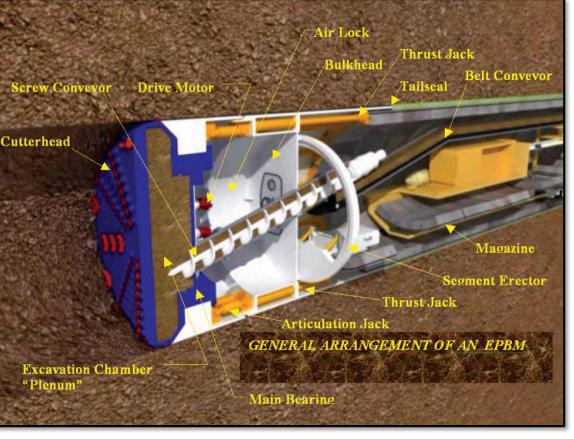
Tunnel Boring Options



Tunnel Boring Machine (TBM)



- Excavates ground material
- Creates tunnel structure
- Removes excavated material



TBM Arrangement

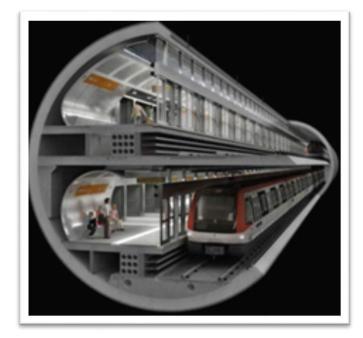


Types of Tunnels

Twin-Bore

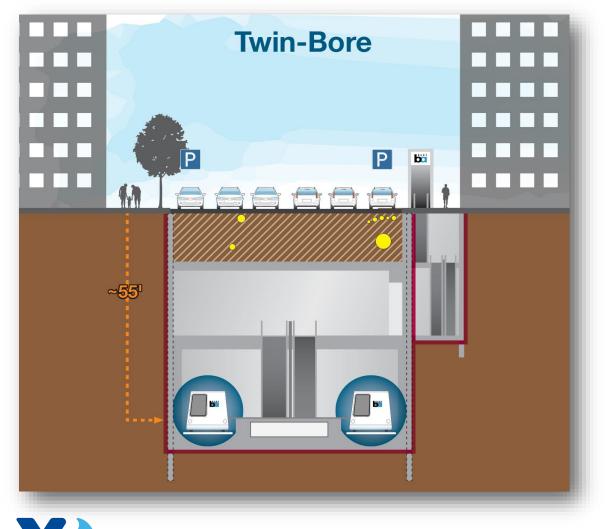


Single-Bore





Downtown San Jose Station Configuration



Twin-Bore Configuration

- ~55 ft. from ground to platform
- 28 ft. wide center platform (serving both directions of travel)
- 9'3" unobstructed width per side of platform
- Built via cut-andcover construction

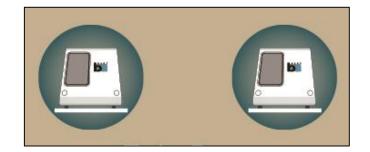
Twin-Bore Cut-and-Cover Construction Areas



Twin-Bore Configuration

Summary

- Two approximately 20 ft. diameter tunnels with independent trackways
- Cut-and-Cover Construction to build:
 - Three underground stations
 - Two Mid-Tunnel Ventilation Structures
 - One crossover

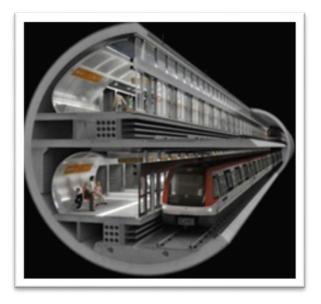


- 33 Cross Passages (Emergency connections between tunnels): localized mining between tunnels, often requiring ground improvements
- Extensive utility relocations at cut-and-cover at five locations within the public right-of-way



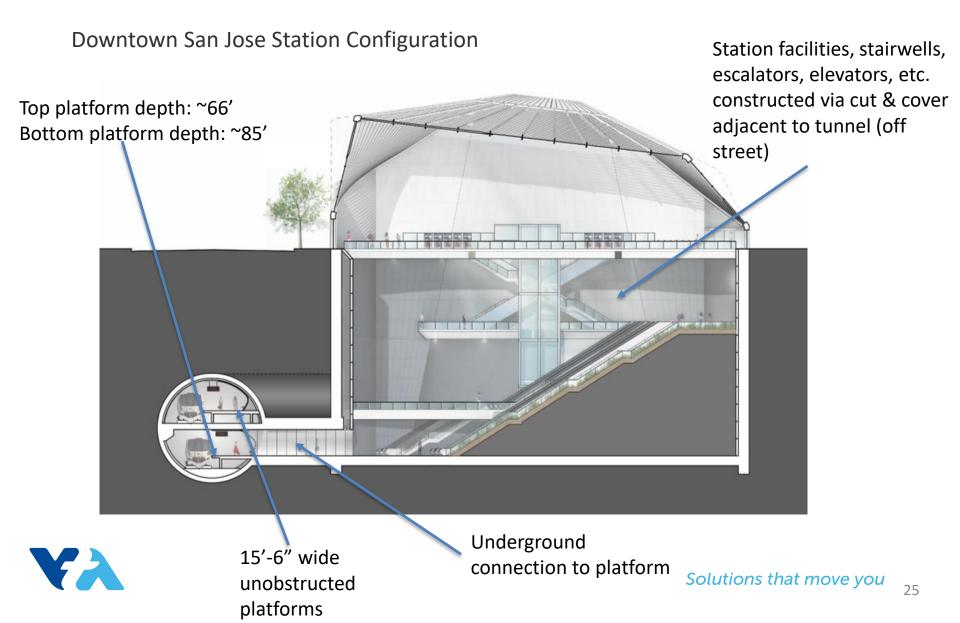
Single-Bore Configuration

- Large tunnel with two independent trackways separated by wall or slab
- No cut-and-cover for platform construction
- Platforms, crossovers and cross-passages within tunnel
- Construction avoids extensive relocation of utilities
- Less disruptions to the neighborhood





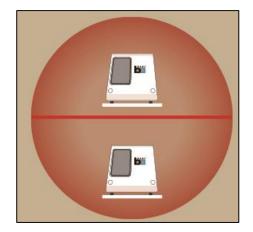
Single-Bore Configuration



Single-Bore Configuration

Summary

- One 45 foot diameter tunnel with both trackways within tunnel
- Cut-and-Cover Construction to build:
 - Minimum of two off-street entrances per station
 - Two mid-tunnel ventilation structures
- Three stations with stacked platforms within tunnel
- Crossover within tunnel
- 76 cross passages within tunnel
- Utility relocation work at entrance locations



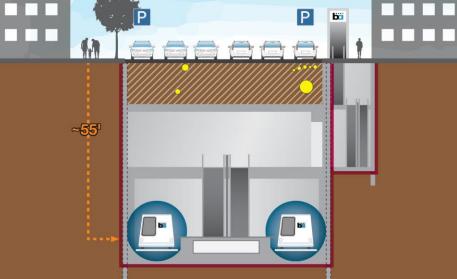


Twin-Bore and Single-Bore Stations

Utilities

Single-Bore

Ρ



Twin-Bore

- Two 20 ft diameter tunnels
- Extensive utility relocation required
- Center platform

- Platform depth: ~55 ft
- Cut-and-cover construction for station under roadway

- One 45 ft diameter tunnel
- Minimal utility disturbance

~66

~85

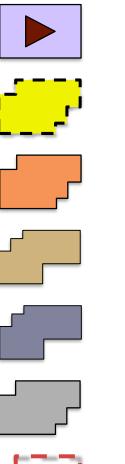
 Platform depths: ~66 ft and ~85 ft

- Stacked in-tunnel platform
- No cut-and-cover construction for tunnel under roadway
 27

Station Options



Site Plan Elements



STATION ENTRANCE OPTIONS

UNDERGROUND STATION, SYSTEM FACILITIES, STATION CONCOURSE (SINGLE-BORE ONLY)

SYSTEM FACILITIES (ABOVE AND BELOW GROUND)

PARKING/PUBLIC FACILITY/ VTA'S TRANSIT-ORIENTED JOINT DEVELOPMENT



ROADWAY MODIFICATIONS



VEHICLE MAINTENANCE AND STORAGE FACILITY/ TAIL TRACKS (SANTA CLARA STATION)

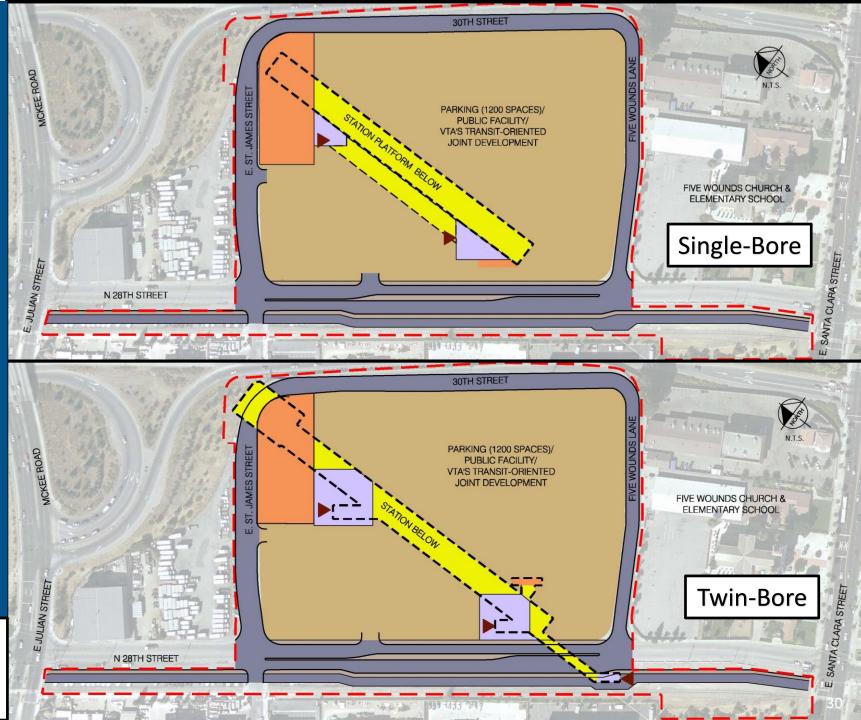


CONSTRUCTION STAGING AREA



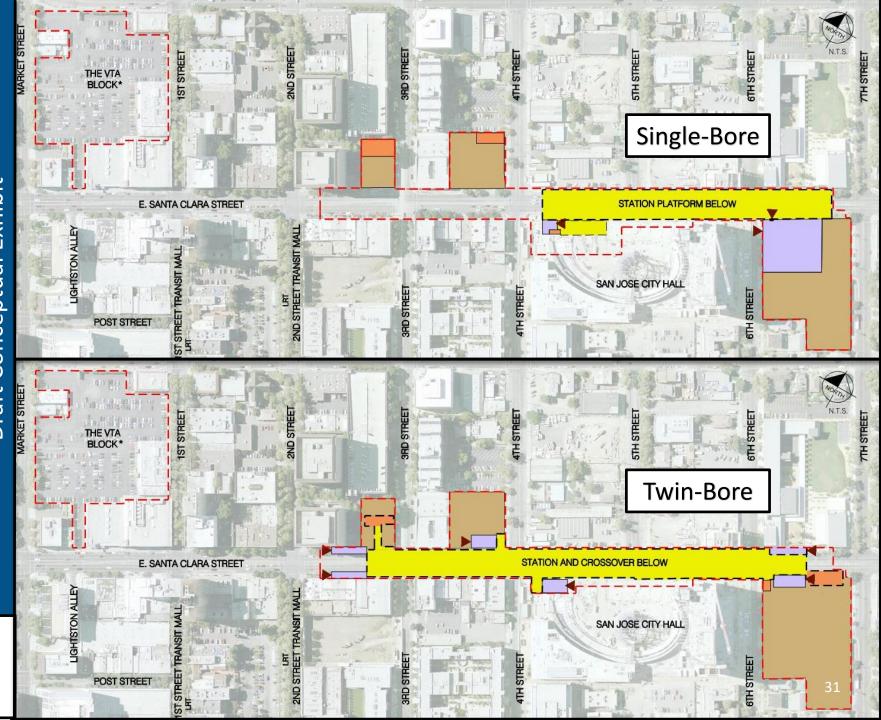
Alum Rock/28th Street Station

Draft Conceptual Exhibit



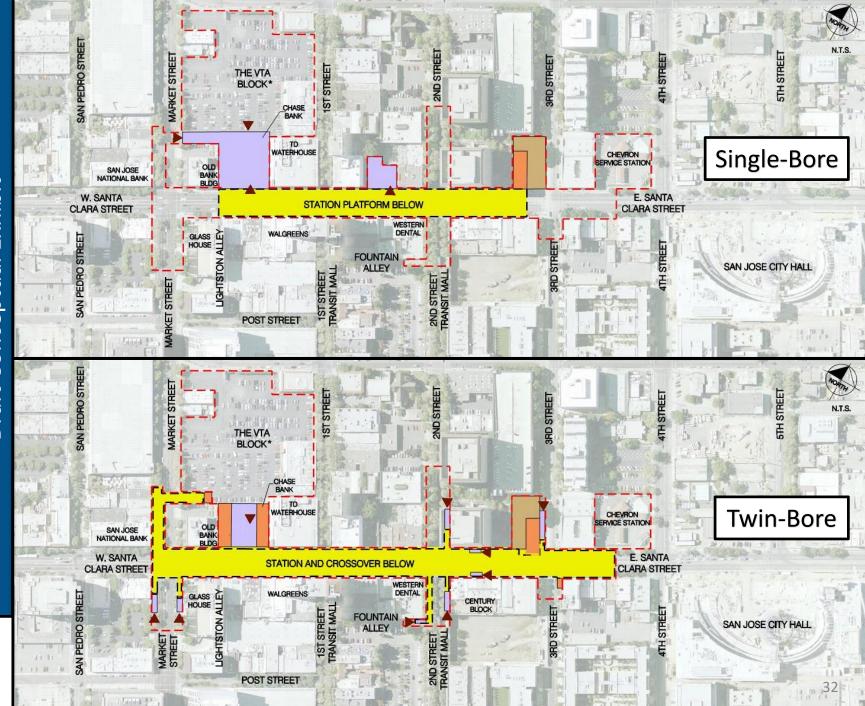


Downtown Station East Option Draft Conceptual Exhibit

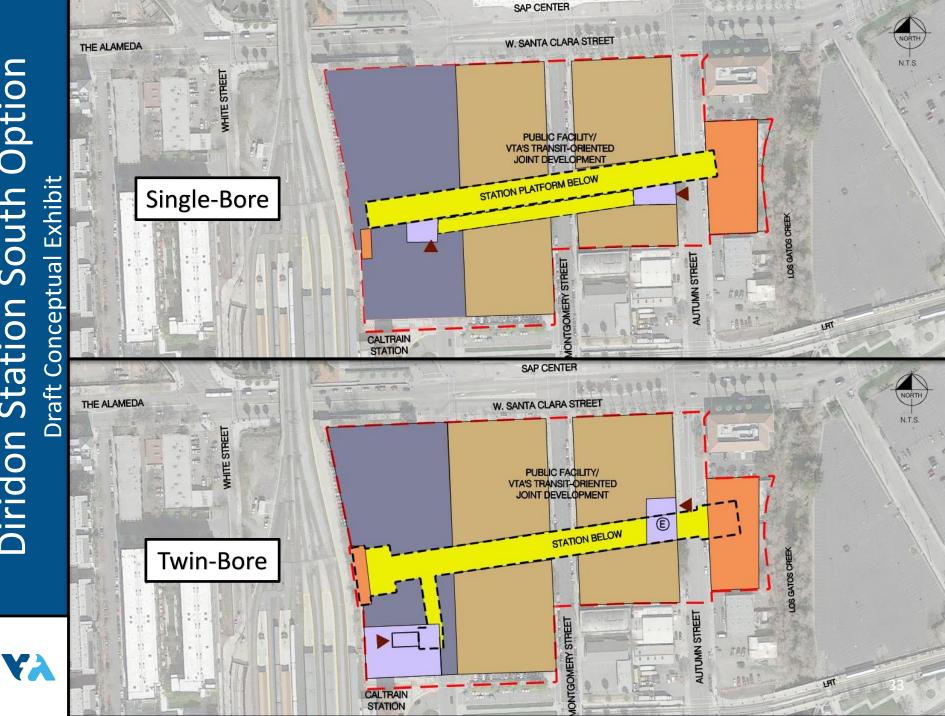


Downtown Station West Option Draft Conceptual Exhibit





Diridon Station South Option



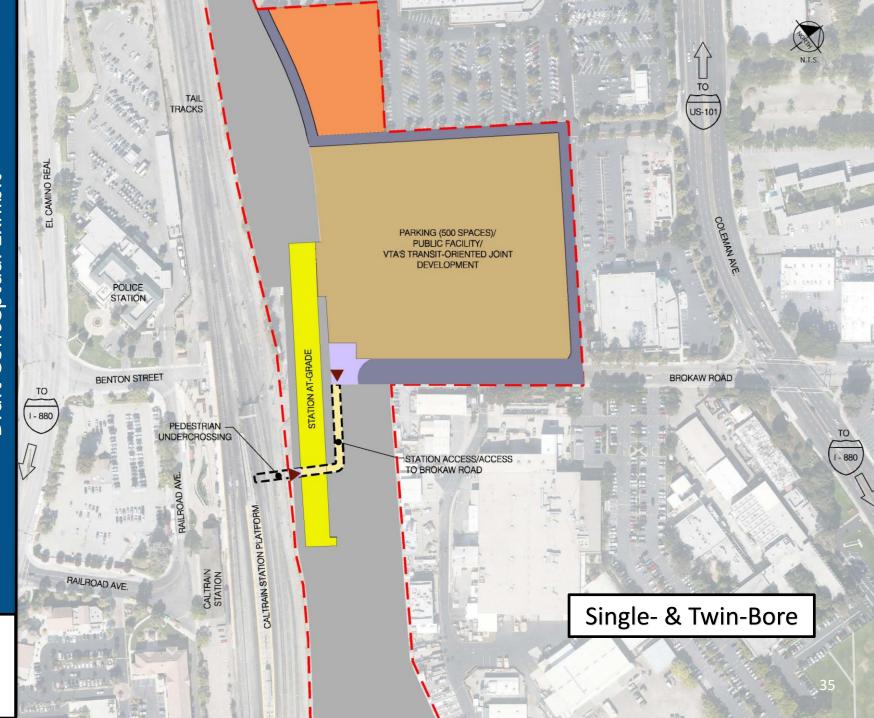
Diridon Station North Option

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Santa Clara Station Draft Conceptual Exhibit



Public Engagement & Key Decision Dates

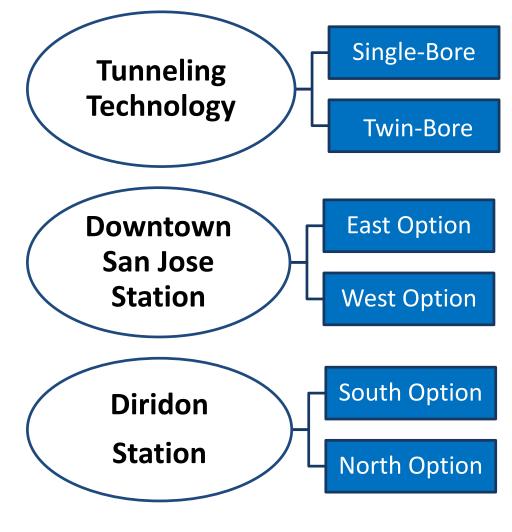


VTA's BART Phase II - Project Schedule 2017-2018

Activity	Schedule
Environmental Public Hearings Jan. 25, 26, and 30	Jan. 25-30, 2017
End of CEQA/NEPA Public Review Period	Mar. 6, 2017
VTA Conducts Single-Bore Tunneling Technical Study	Oct. 2016 - Mar. 2017
VTA Conducts Tunneling Options Comparative Analysis	April - June 2017
VTA Board Workshop - Project Overview, Environmental Process & Tunneling Methodology Decision Process	August 25, 2017
VTA Board Workshop - Final Comparative Analysis & Draft Final Project Description	September 22, 2017
San Jose City Council Meeting (anticipated)	September 19, 2017
Joint BART/VTA Board Meeting	September 28, 2017
VTA Board Meeting - Select Final Project Description	<u>October 5, 2017</u>
VTA Board Meeting - Certify Final SEIR/Approve Project	January 4, 2018
Record of Decision Anticipated to be Signed by FTA	March 2018



Selections for Final Project Description





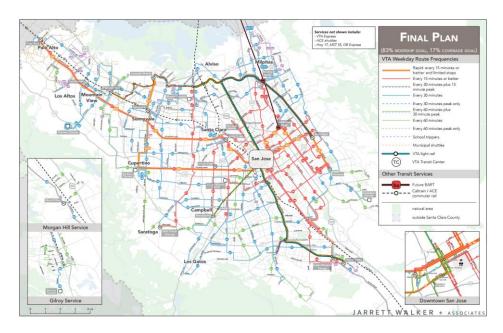
VTA will develop a **Construction Education and Outreach Plan** that includes best practices from BART Phase I that will establish:

- Stakeholder priorities during initial engagement through construction;
- Construction contract requirements to minimize disruption to businesses, residents, and commuters;
- Continued investment in the Community Working Groups;
- Multilingual and multichannel communication strategies to engage early and often, continuous feedback loop;
- On-site Community Outreach Liaisons for each construction area to partner with city and other project points of contact.



Related Planning Efforts

- Diridon Facilities Master Plan
- Transit Oriented Joint Development and Station Access
 Planning Study
- Next Network (Transit Service Plan)





Questions?

Want to talk more about BART Silicon Valley? Contact VTA's Community Engagement Staff Phone: (408) 934-2662 Email: <u>VTAbart@vta.org</u>

