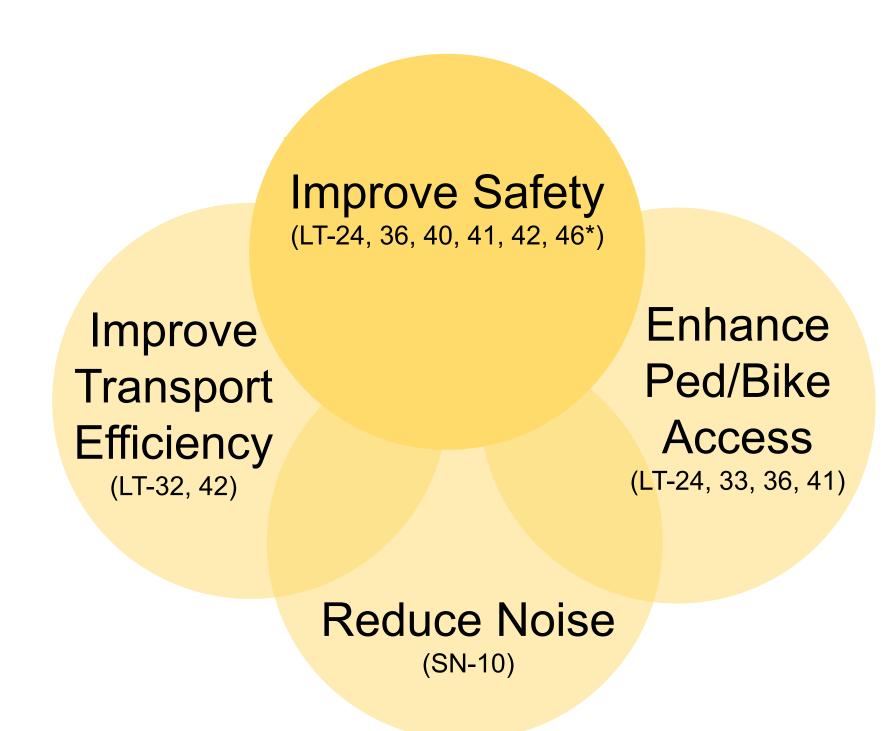
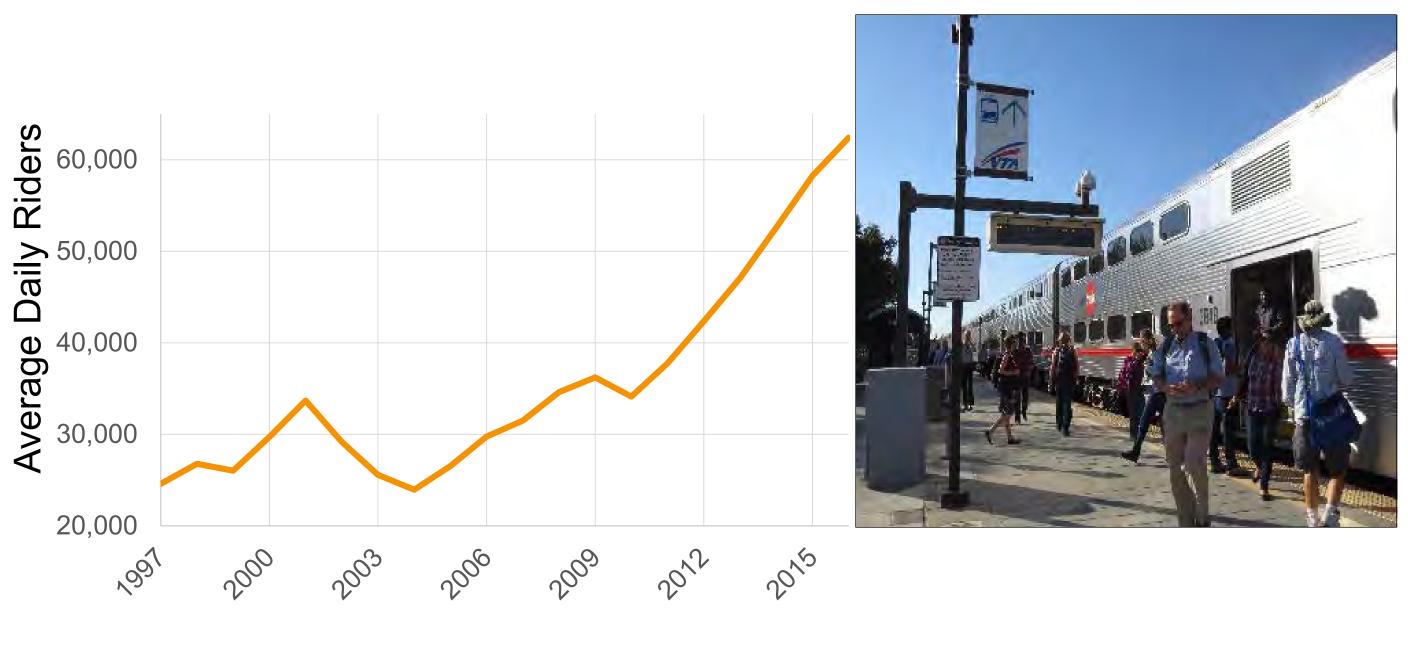


Project Goals



* General Plan Policies refer to 2017 Land Use and Transportation Element (LUTE) and 2011 Consolidated General Plan Safety and Noise Element

Project Context



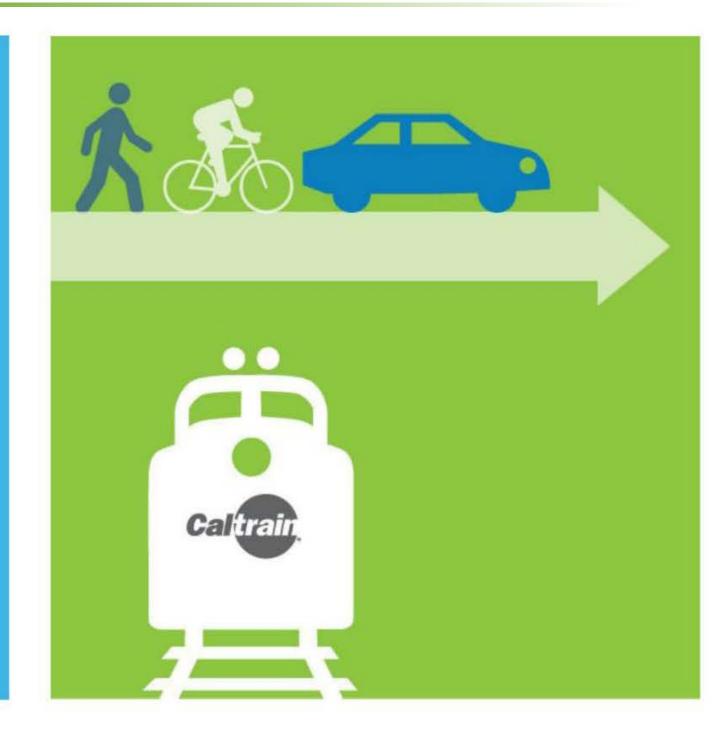
76 trains (2003)

92 trains (2016)

114 trains +80-106 HSR (2040)

Caltrain Grade Separation – VTA Program Description

- \$700 Million
- Projects in cities of:
 - Sunnyvale
 - Mountain View
 - Palo Alto
- Increase safety for
 - Drivers
 - Bicyclists
 - Pedestrians
- Reduce congestion at crossings intersections



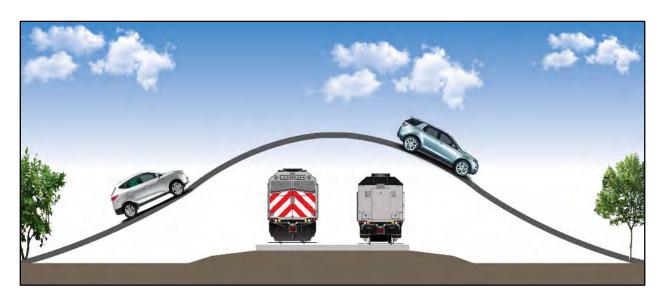


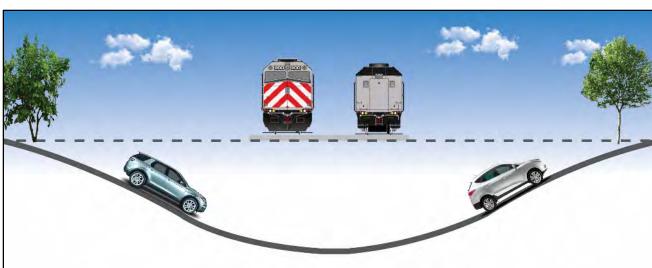
Solutions that move you

13

Sunnyvale has 2 of the 8 at grade crossings

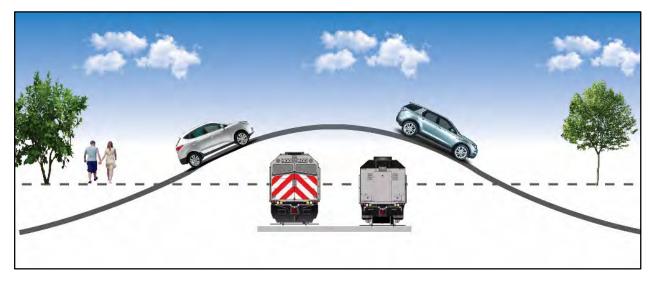
Initial Screening Alternatives

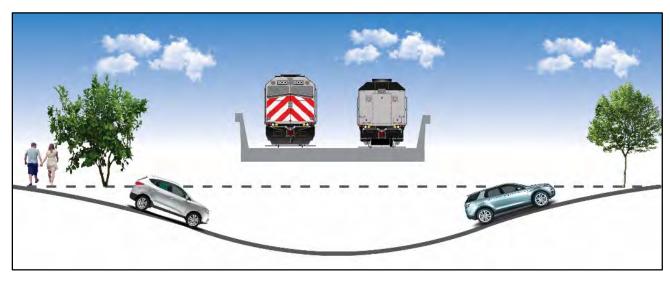












Road Overpass



Mathilda Avenue, Sunnyvale (Google Maps)



Tustin/Rose Overpass (BKF)

Road Underpass



Marina Bay Parkway, Richmond (BKF)



Jefferson Avenue, Redwood City (Google Maps)

Split Road Underpass



Holly Street, San Carlos (Google Maps)



Harbor Blvd, Belmont (Google Maps)

Depressed Rail



4th Street at Clay Street, Oakland (Flickr user Andy Tucker)



VTA Light Rail at Diridon Station

Grade Separation Construction





Community Outreach

Project Webpage			
Business Outreach Meeting 7/26			
BPAC Meeting 8/17			
Mary Ave Community Meeting 8/10* (100 participants)	Sunnyvale Ave Community Mtg 8/24* (65 participants)		
Mary Ave Expressions Meeting 8/22	Sunnyvale Downtown Association 9/6		
Mary Ave Online Survey 9/15 (128 responses)	Sunnyvale Ave Online Survey 9/15 (77 responses)		

^{*} Outreach included: 8,934 postcards, NextDoor (62 groups), Yahoo! Group (126 members), eBlast, City website calendar, Council/Commission notices, FaceBook, Twitter.

Mary Avenue



Mary Avenue Elevated Rail

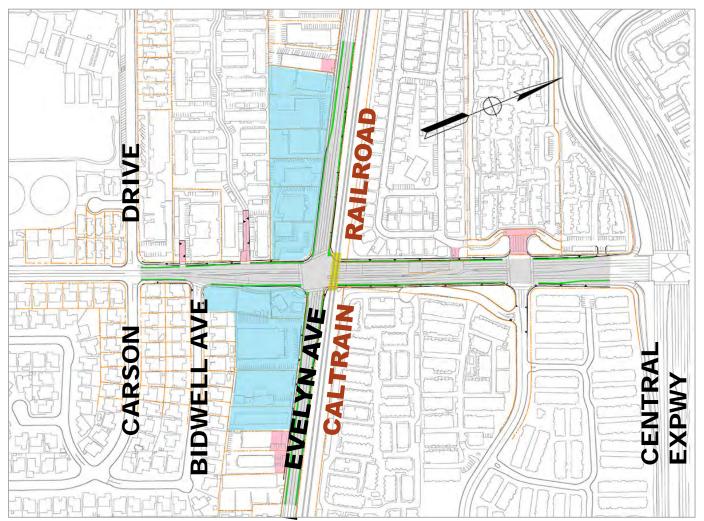




No grade change to Mary Ave	No grade change to Evelyn Ave	Railroad elevated
Noise and visual impacts along residences	Evelyn Ave reduced to one lane during construction	Shoofly required
Mathilda ramp bridge reconstructed	\$150M - \$250M*	Rail disruption

^{*} Costs within presentation include construction, utility relocation, right of way and admin costs

Mary Avenue Overpass

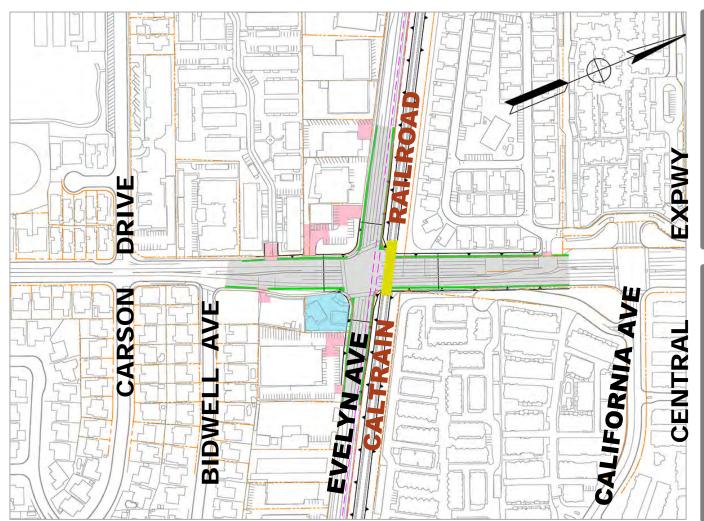






Ma	ry Ave elevated	Evelyn Ave elevated	Railroad at-grade
★ Po	otential acquisition of 12+ parcels	Noise and visual impacts along residences	No rail disruption
*	Modifications to 7+ driveways	\$200M - \$250M	

Mary Avenue Split Overpass

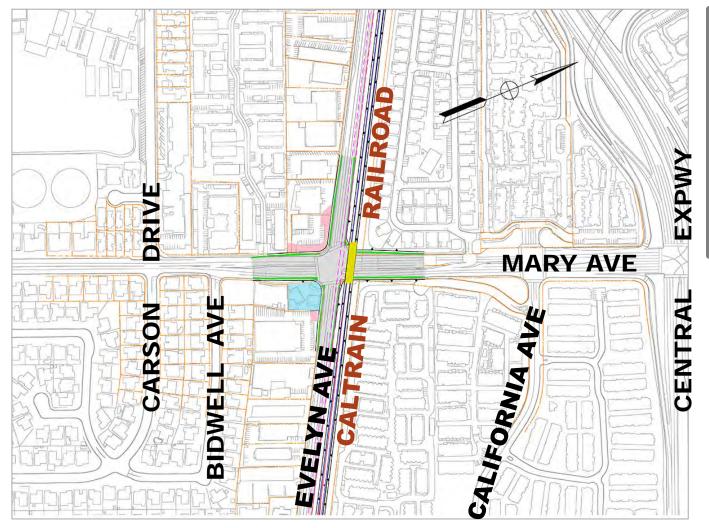


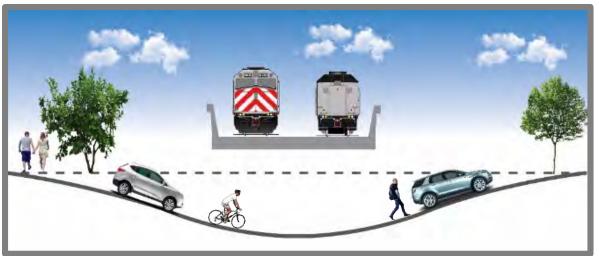




Mary Ave partially elevated	Evelyn Ave partially elevated	Railroad partially depressed
Potential acquisition of 1+ parcels	Evelyn Ave reduced to one lane during construction	Noise and visual impacts along residences
Modifications to 7+ driveways	\$200M - \$250M	Shoofly and rail disruption

Mary Avenue Split Underpass

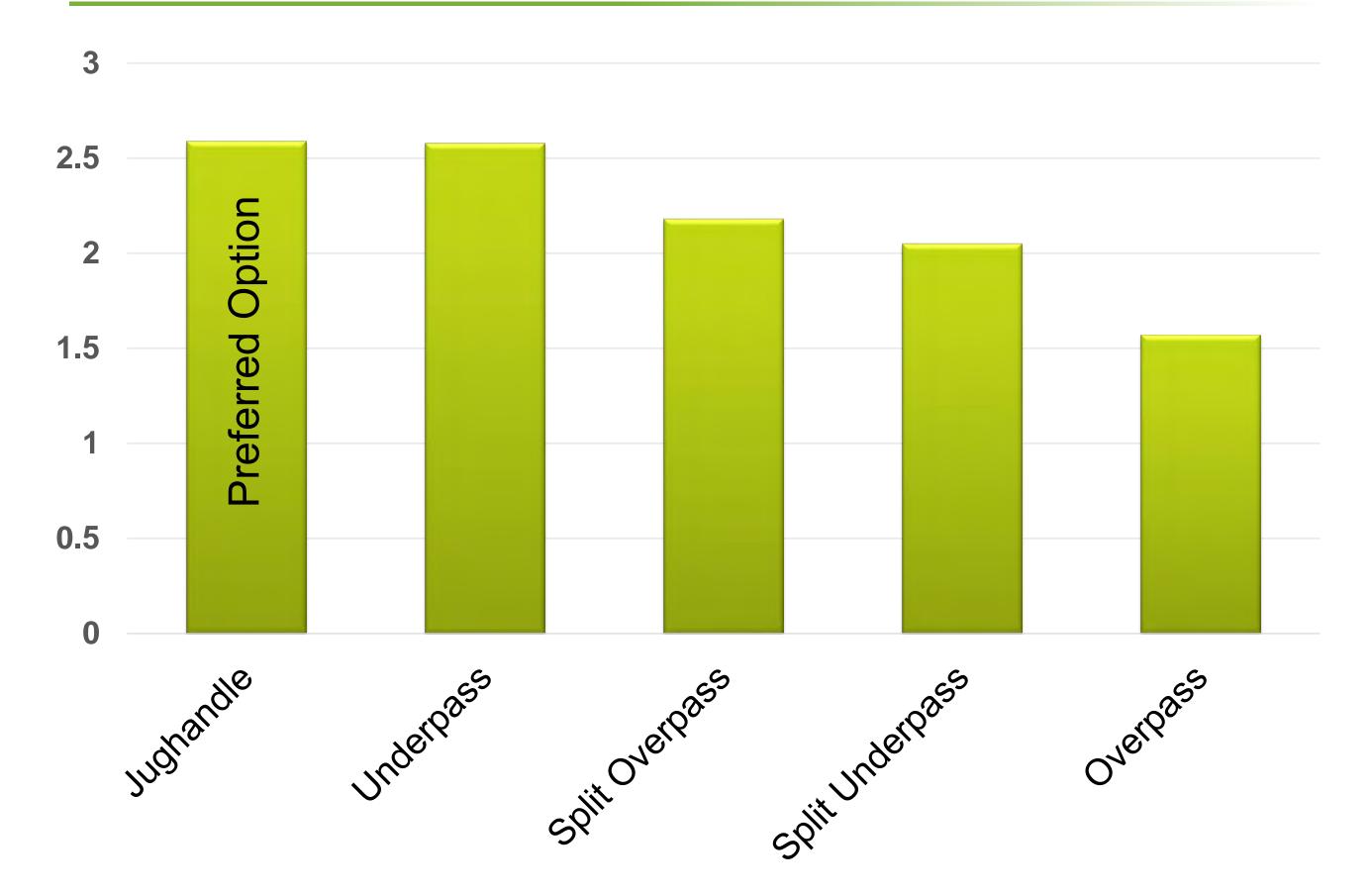




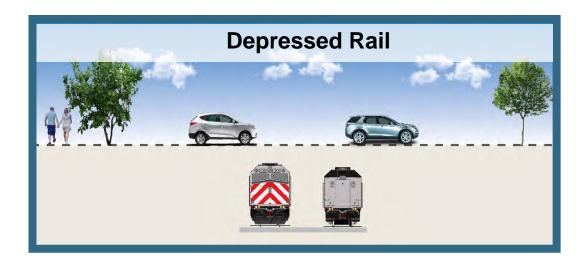


Mary Ave Railroad **Evelyn Ave** partially depressed partially depressed partially elevated Noise and visual Potential acquisition Evelyn Ave reduced to one impacts along residences of 1+ parcels lane during construction Shoofly and Modifications to 3+ \$150M - \$250M rail disruption driveways

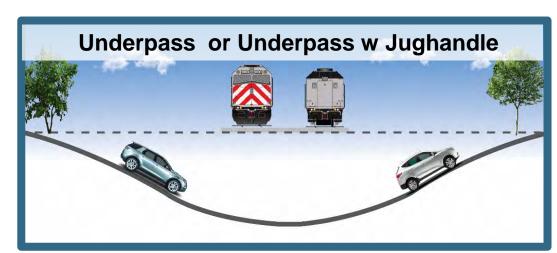
Mary Avenue Online Survey



Mary Avenue Alternatives

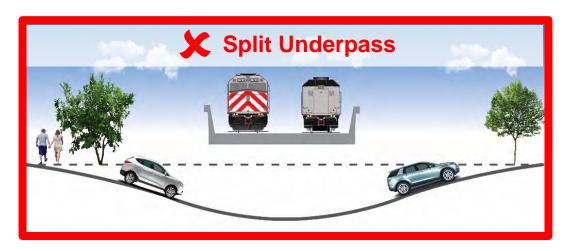




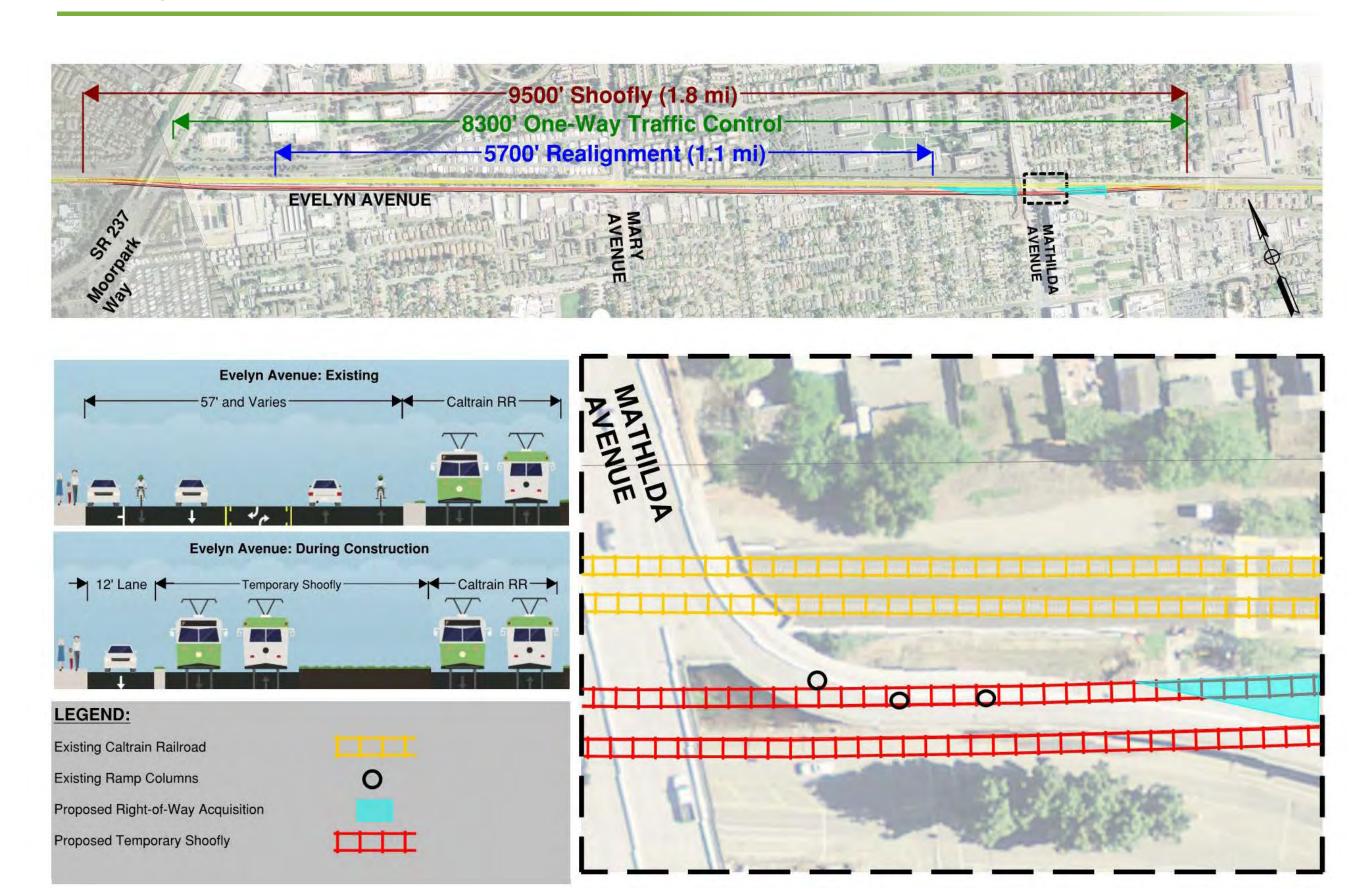




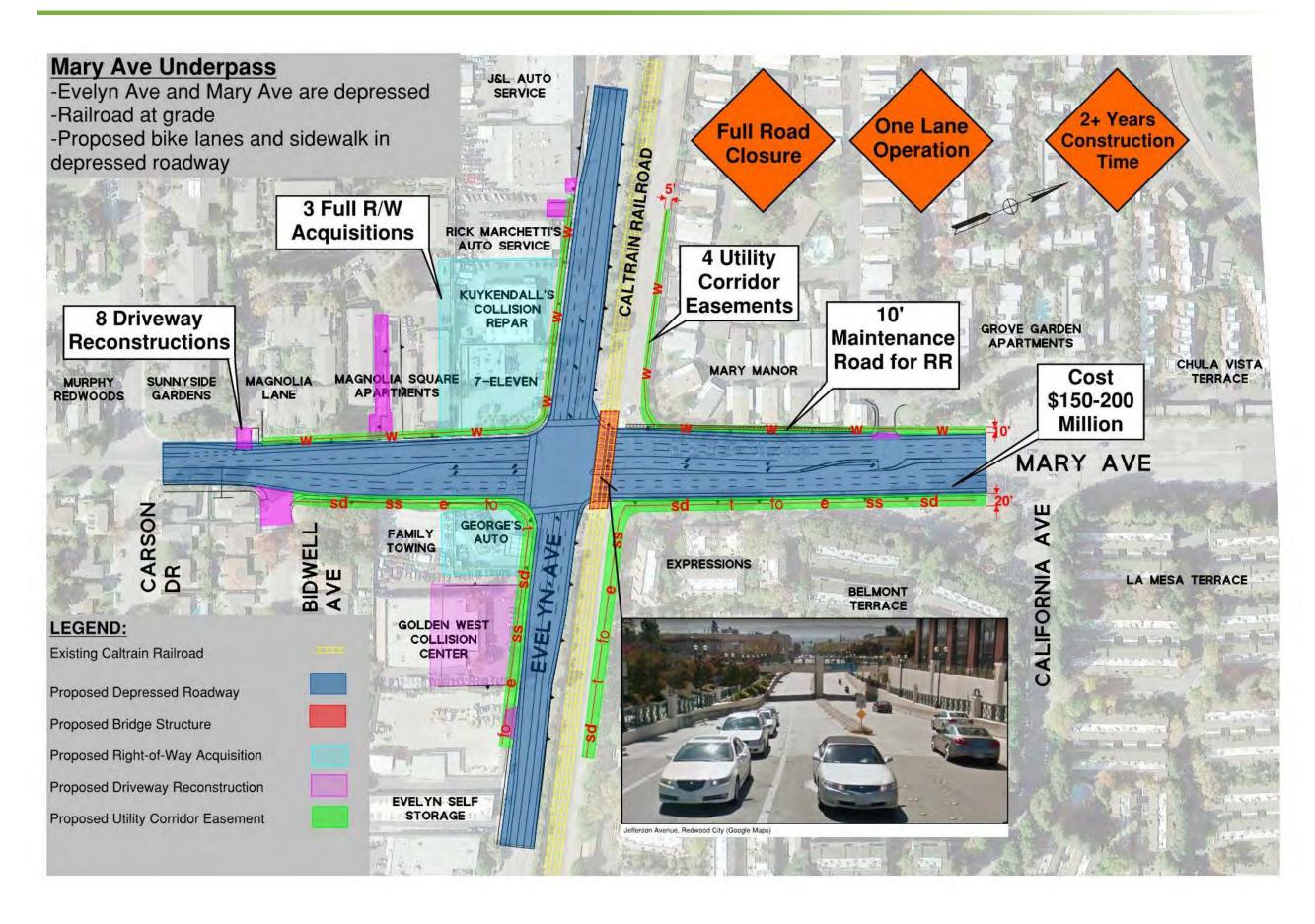




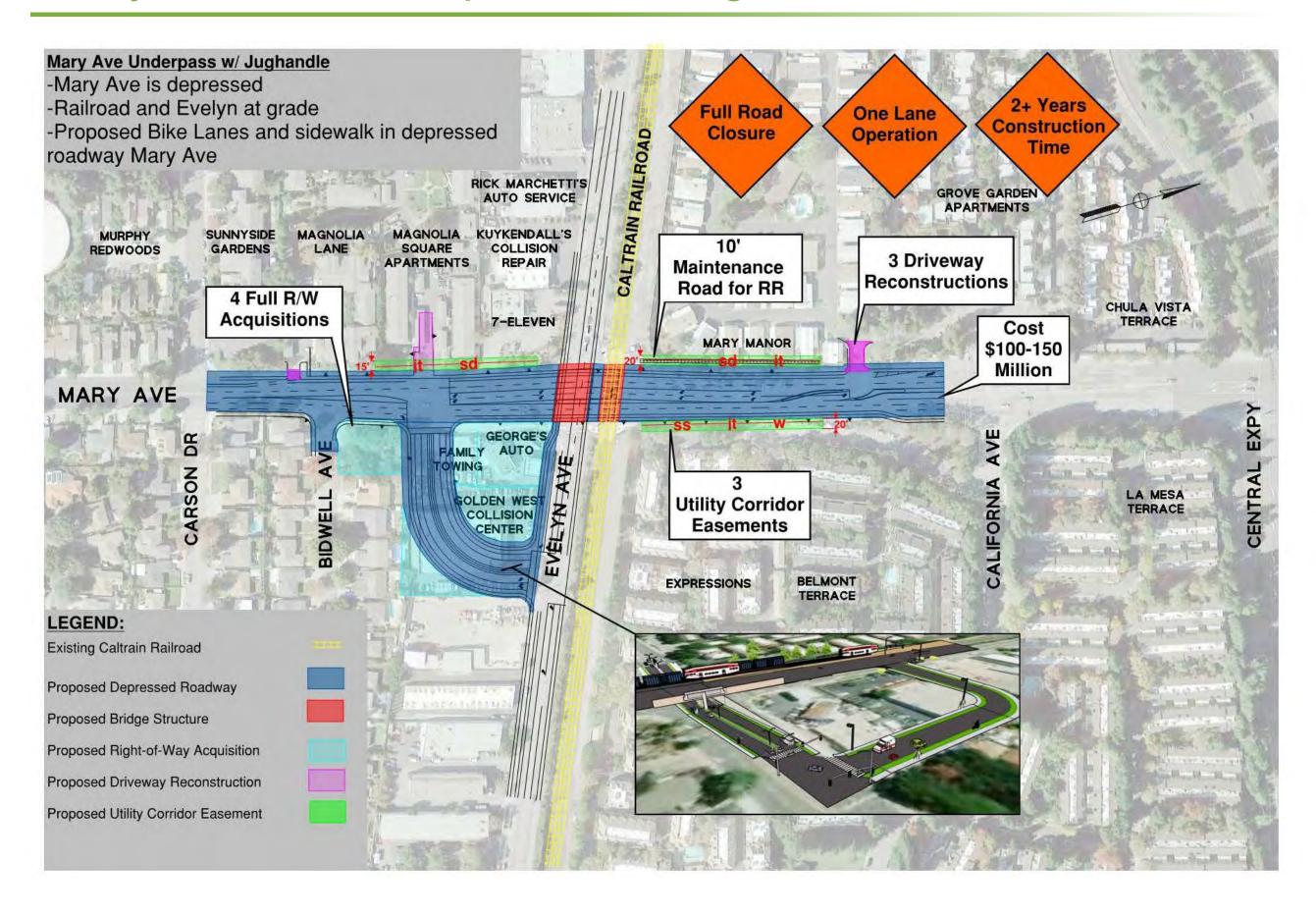
Mary Avenue Depressed Rail



Mary Avenue Underpass



Mary Avenue Underpass with Jughandle



Mary Avenue Underpass with Jughandle



Sunnyvale Avenue



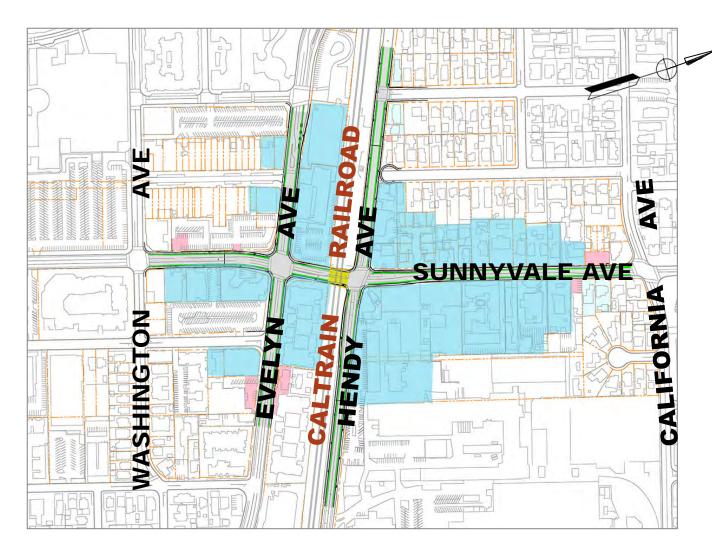
Sunnyvale Avenue Elevated Rail

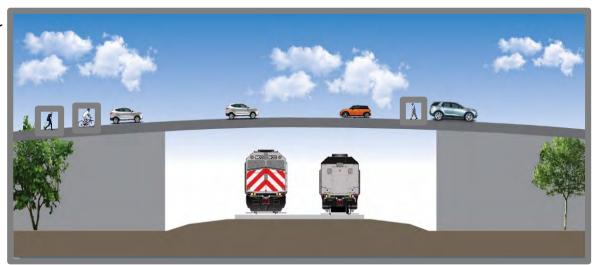




No grade change to Sunnyvale Avenue	No grade change to Evelyn Ave	No grade change to Hendy Ave
Noise and visual impacts along residences	Conflicts with Fair Oaks and Mathilda bridges	Shoofly required
No driveway access along Hendy Ave	\$150M - \$250M	Rail and station disruption

Sunnyvale Avenue Overpass

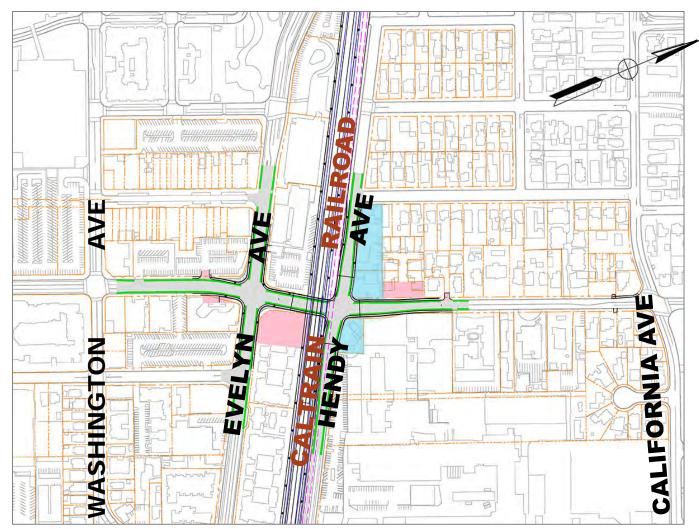






S	unnyvale Ave elevated	Evelyn Ave elevated	Hendy Ave elevated
×	Potential acquisition of 44+ parcels	Noise and visual impacts along residences	No rail construction required
×	Modifications to 16+ driveways	\$300M - \$350M	No station reconstruction

Sunnyvale Avenue Split Overpass





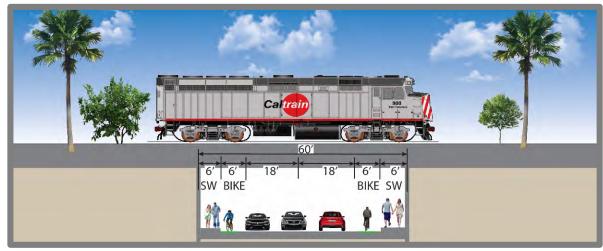


Hendy Ave Sunnyvale Ave Evelyn Ave partially elevated partially elevated partially elevated Noise and visual Potential acquisition of Shoofly and rail and 5+ parcels station disruption impacts along residences Modifications to 4+ No driveway access \$350M - \$450M along Hendy Ave driveways

Sunnyvale Avenue Underpass



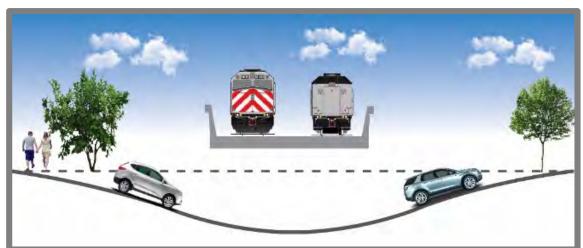




Sunnyvale Ave depre	ssed Eve	elyn Ave depressed	Hendy Ave depressed
Potential acquisiting 14+ parcels	on of	No permanent rail impact	No station reconstruction
Modifications to driveways	5+	\$150M - \$200M	

Sunnyvale Avenue Split Underpass

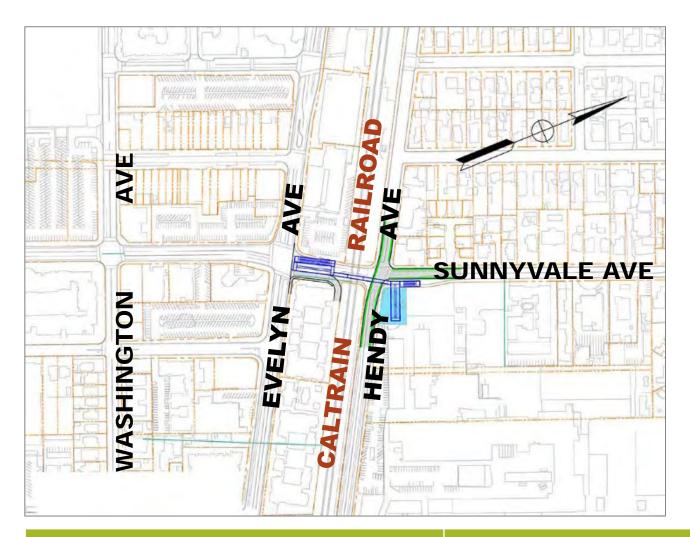


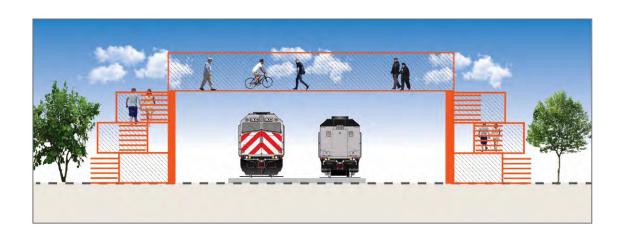




Sunnyvale Ave partially depressed	Evelyn Ave partially depressed	Hendy Ave partially depressed
Potential acquisition of 3+ parcels	Noise and visual impacts along residences	Shoofly and rail and station disruption
Modifications to 5+ driveways	\$200M - \$250M	No driveway access along Hendy Ave

Sunnyvale Avenue Bike/Pedestrian Overcrossing

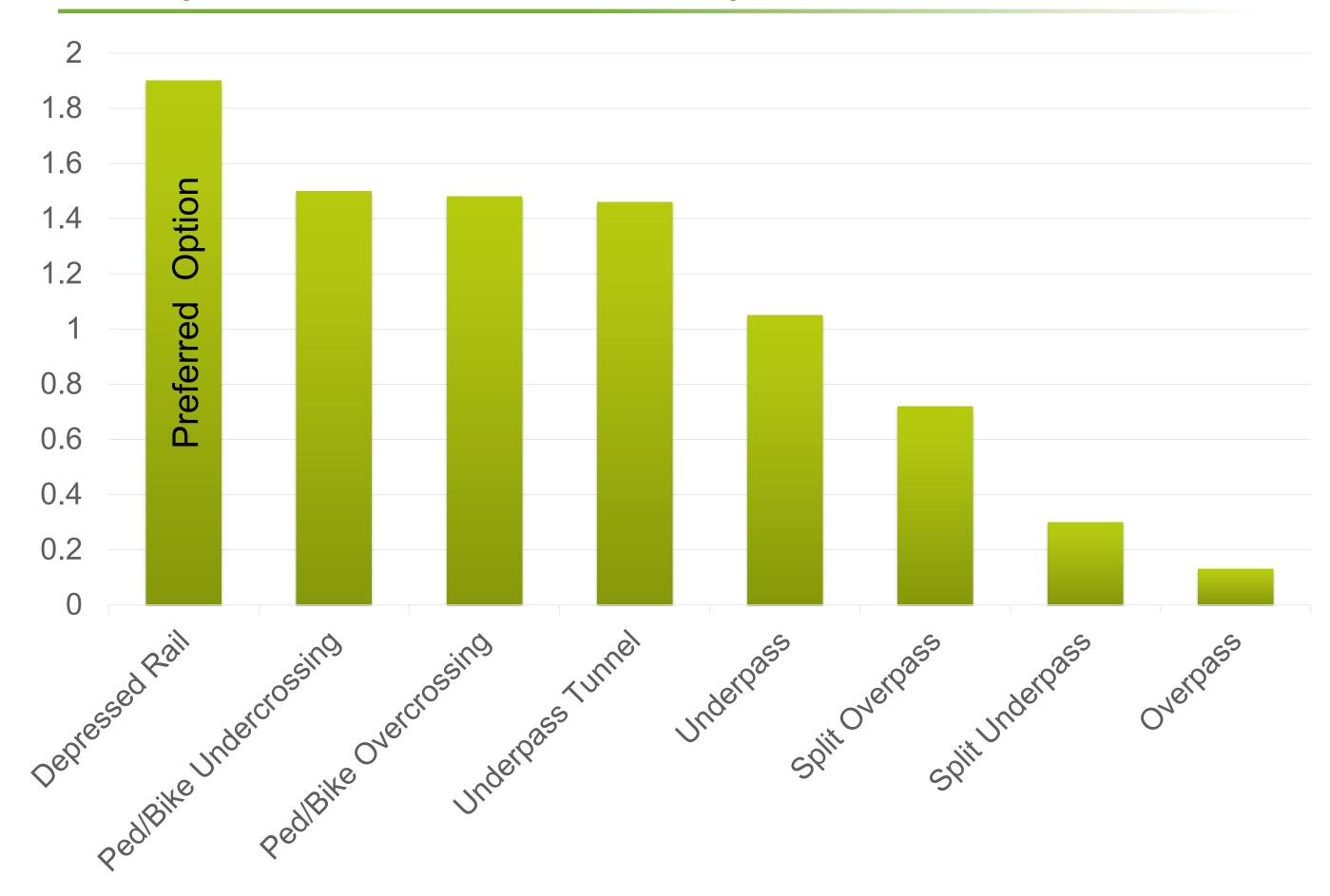






Sunnyvale Ave at-grade	Evelyn Ave at-grade	Hendy Ave at-grade
Sunnyvale closed at crossing	Visual impacts along residences	No rail construction required
Potential acquisition of 1+ parcel	\$25M - \$35M	No station reconstruction

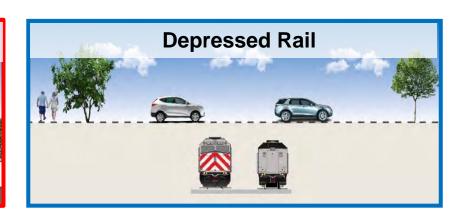
Sunnyvale Avenue Online Survey

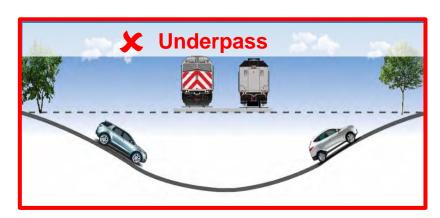


Sunnyvale Avenue Alternatives

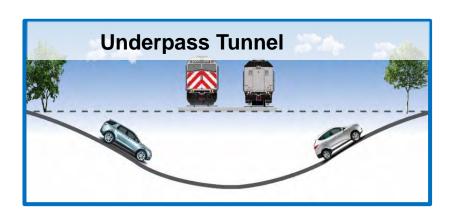


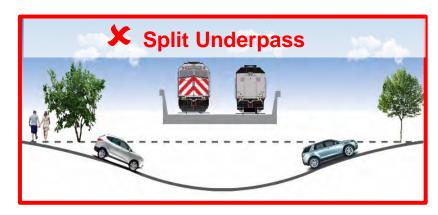








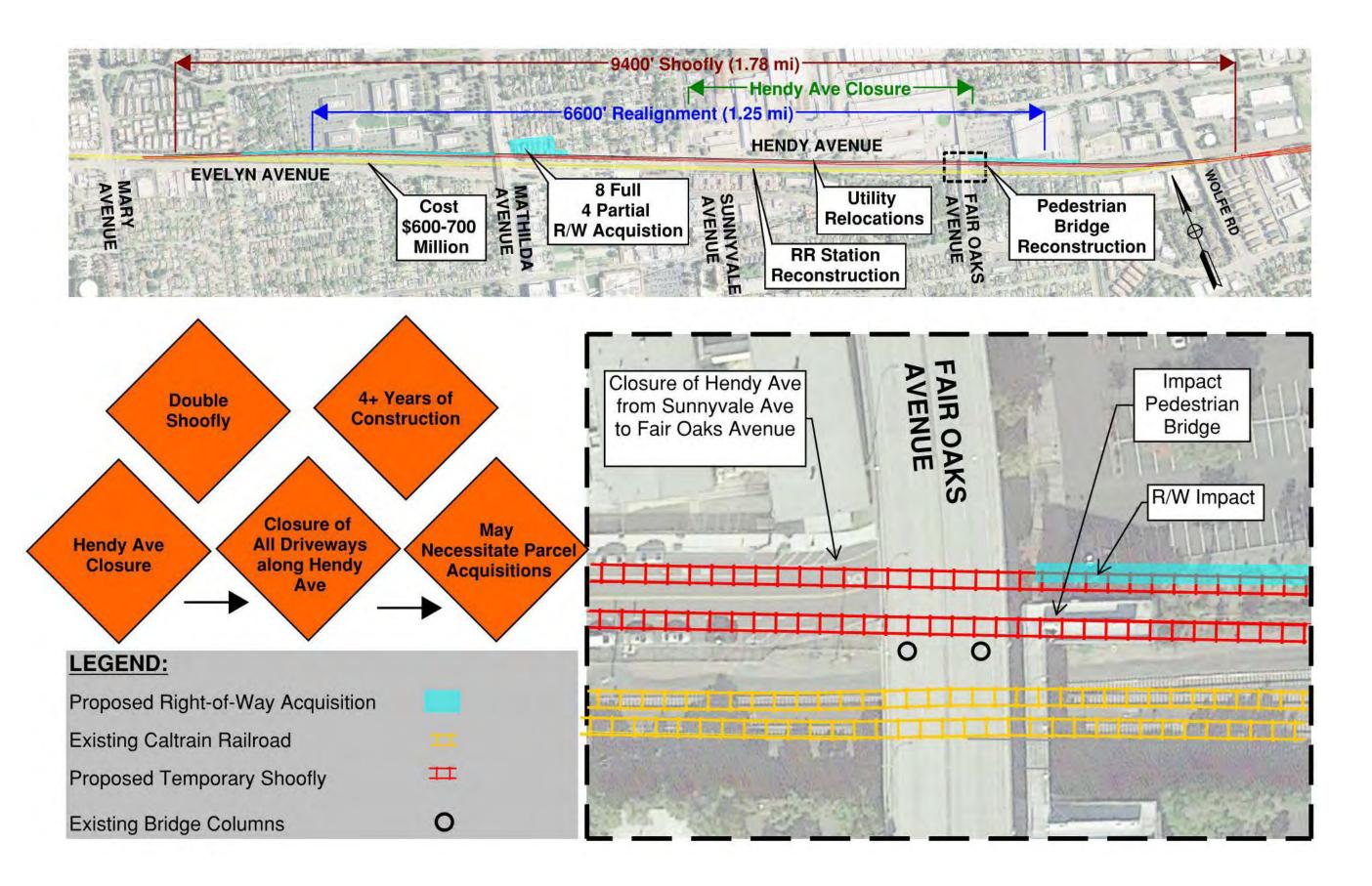




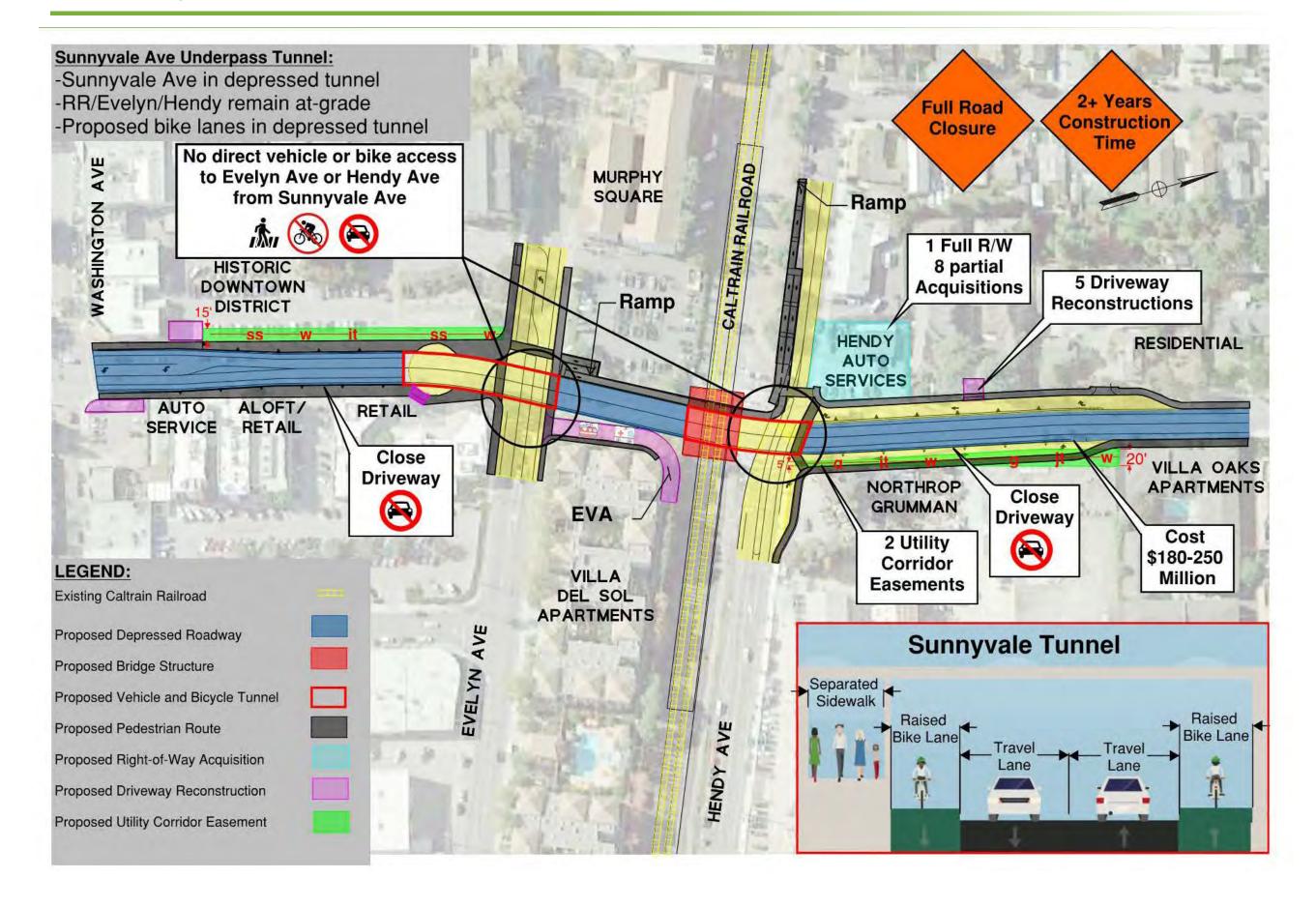




Sunnyvale Avenue Depressed Rail



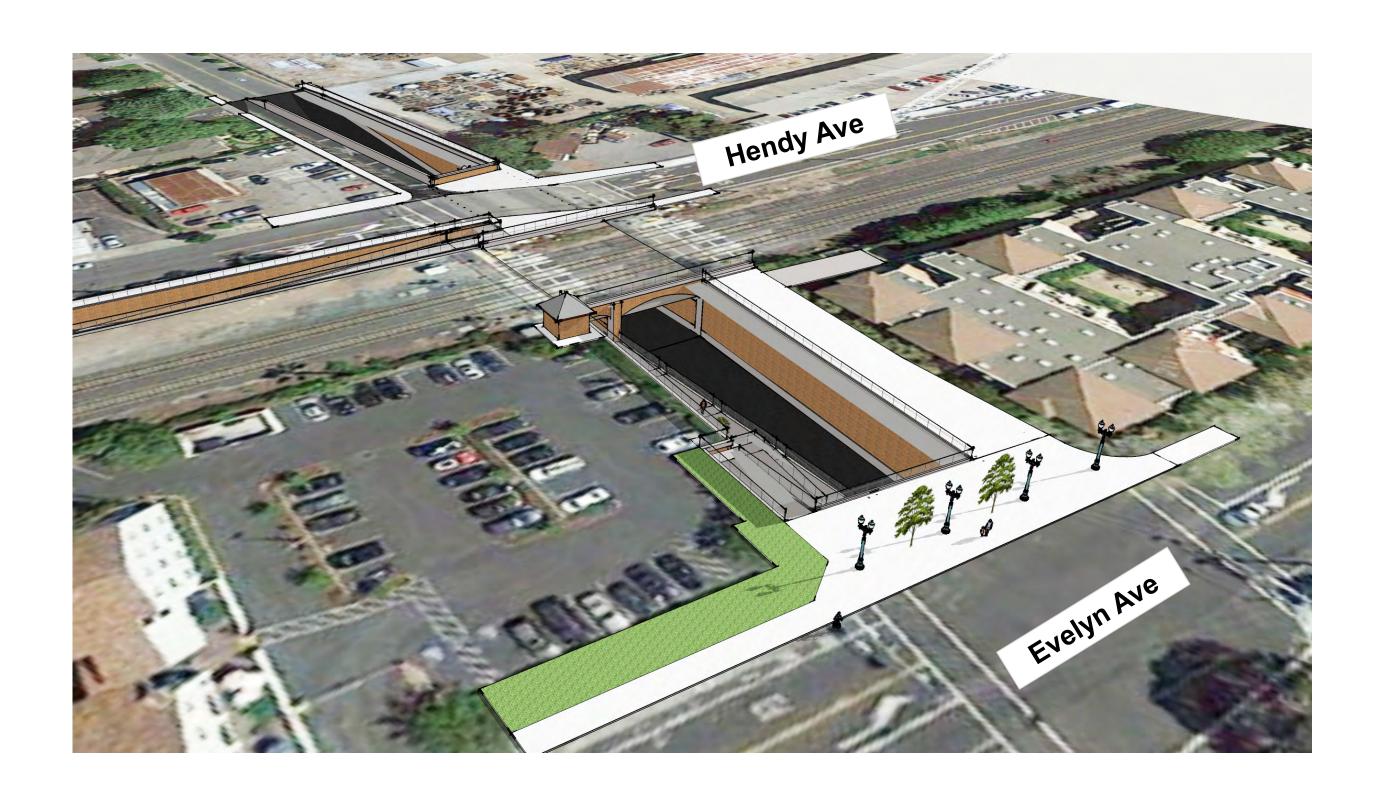
Sunnyvale Avenue Underpass Tunnel



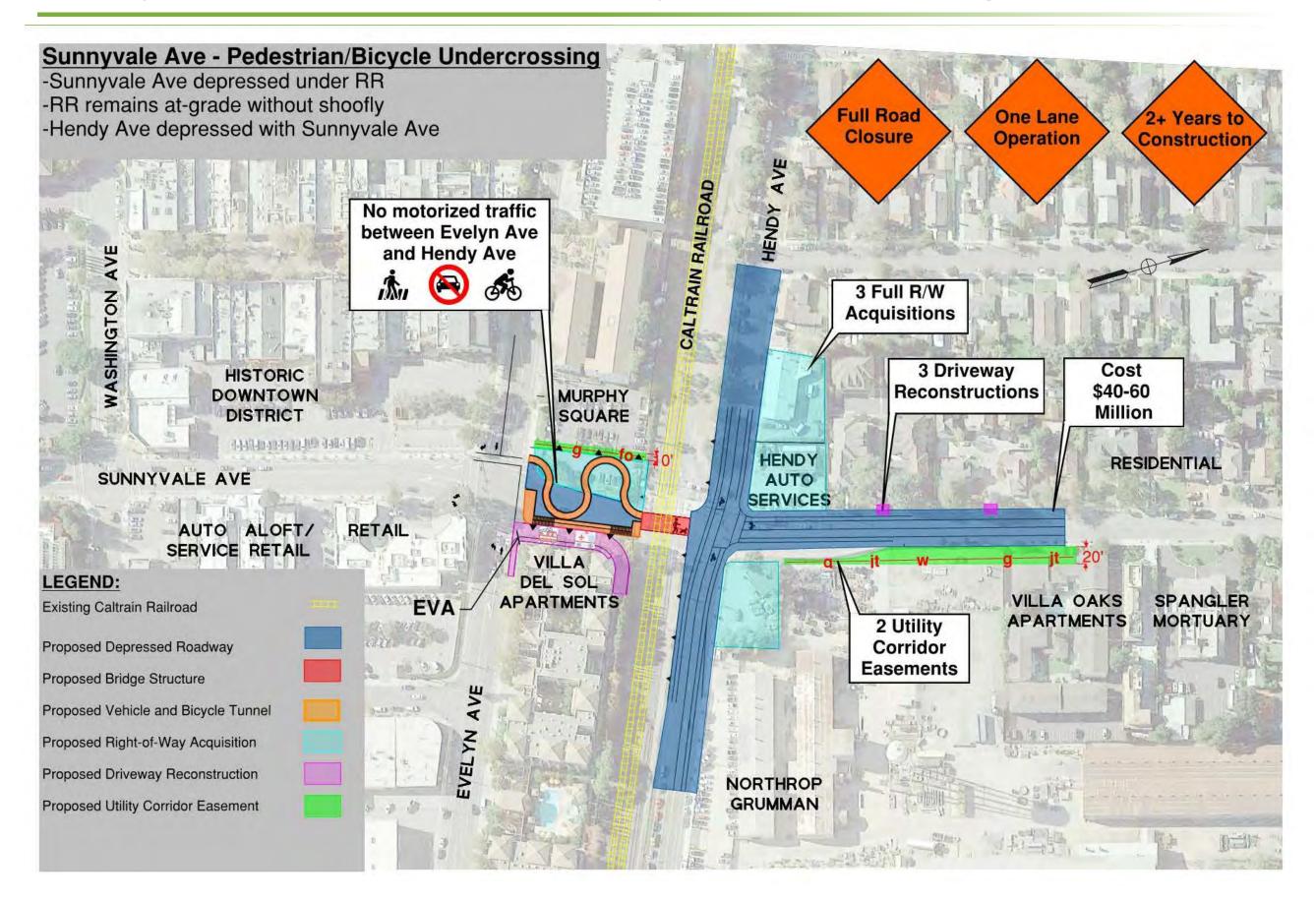
Sunnyvale Avenue Underpass Tunnel



Sunnyvale Avenue Underpass Tunnel



Sunnyvale Avenue Pedestrian/Bicycle Undercrossing



Pedestrian/Bicycle Undercrossing



Palo Alto Homer Undercrossing



Santa Clara Ped Undercrossing

Schedule and Process

Feasibility Study

Environmental Analysis & Concept Design Detailed Design & Property Acquisition

Bid & Construction

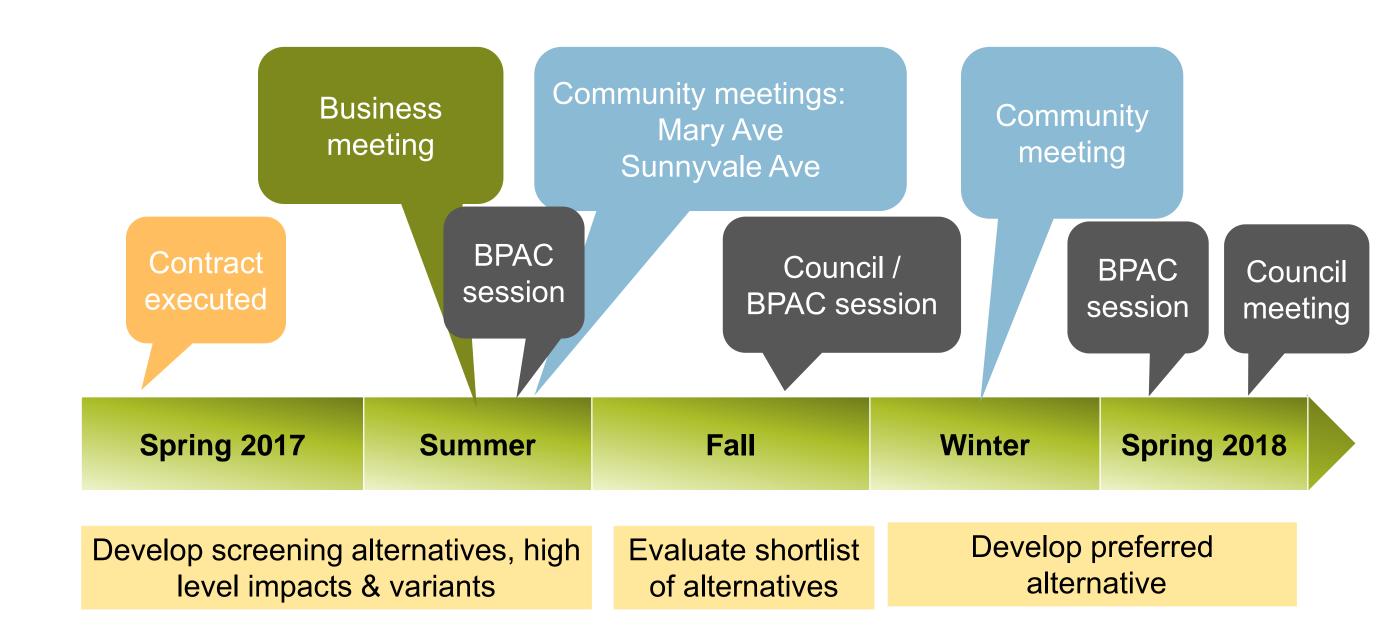
1 year

1 1/2 years

2 years

2-5 years

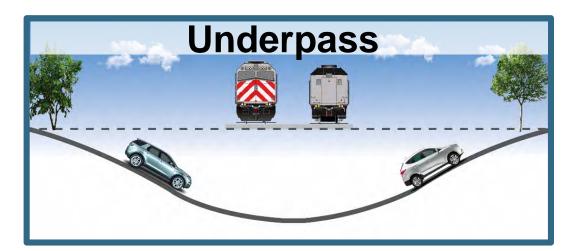
Feasibility Study Process

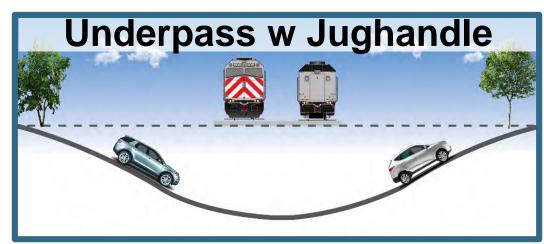


Next Steps

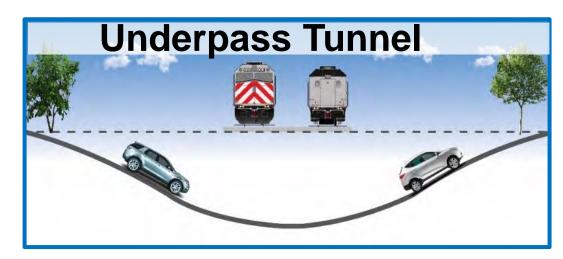
Move forward with further analysis and refinement:

Mary Avenue





Sunnyvale Avenue





Thank You!

