

Caltrain Grade Separation Feasibility Study Study Issue DPW No. 14-13

City Council Public Hearing August 30, 2022







## Project Background

## **Project Locations**



## Community Outreach & Public Meetings

- Email list created
- Project webpage
- On-going Business Outreach Meetings
- July 12, 2017 Agency Stakeholder Meeting
- July 26, 2017 Business Outreach Meeting
- Aug. 10, 2017 Mary Avenue Community Meeting (100 participants)
- Aug. 17, 2017 Bicycle and Pedestrian Advisory Commission Meeting
- Aug. 22, 2017 Mary Avenue Expressions Complex Meeting
- Aug. 24, 2017 Sunnyvale Avenue Community Meeting (65 participants)
- Sept. 2017 Mary Avenue Online Survey (128 responses)
- Sept. 2017 Sunnyvale Avenue Online Survey (77 responses)
- Sept. 6, 2017 Sunnyvale Downtown Association Meeting
- Oct. 17, 2017 City Council and BPAC Joint Meeting
- Jan. 23, 2018 City Council Meeting

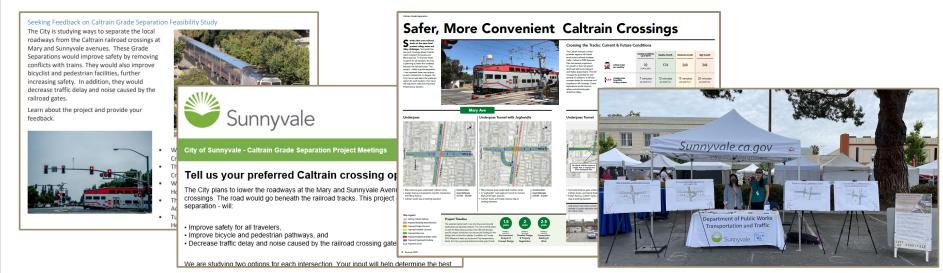


## Community Outreach & Public Meetings, cont.

- City Council Study Session (April 5, 2022)
- City Manager's Update (May 13, 2022)
- Multiple Email blasts
- Art & Wine Festival booth (June 4-5, 2022)
- Multiple NextDoor posts
- Multiple Facebook posts
- Horizon article (Summer 2022)

- Mary Avenue Community Meeting (June 8, 2022)
- Sunnyvale Avenue Community Meeting (June 9, 2022)
- Survey from June 13 to July 31, 2022 (462 responses)
- Downtown Association Board
- Chamber of Commerce Policy and Business Committee
- Chamber of Commerce Board
- Agency Stakeholder Meetings

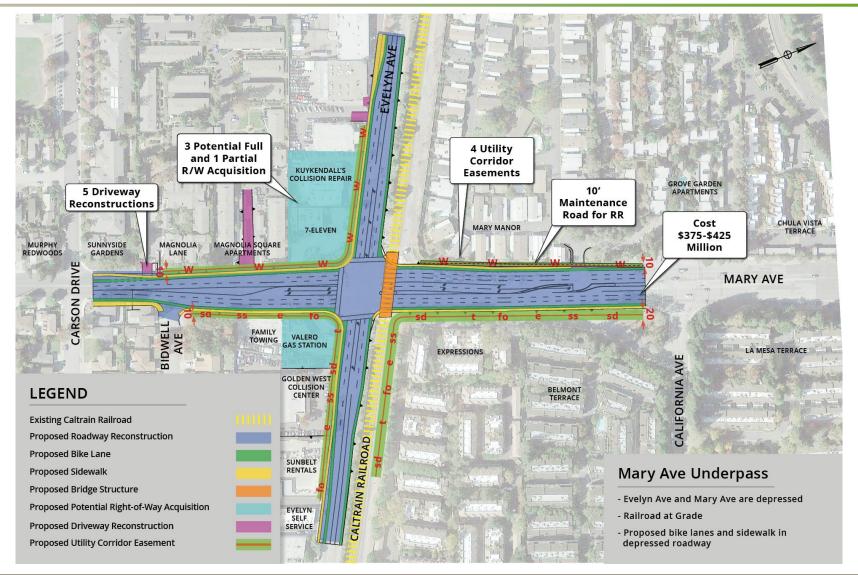
- Direct emails, letters and meetings:
  - Local Businesses
  - Residents
  - Property Owners
  - Impacted Stakeholders
  - HOAs
  - Community Groups
  - Schools
  - Places of worship
  - VTA





## Mary Avenue Options

## Mary Avenue Underpass

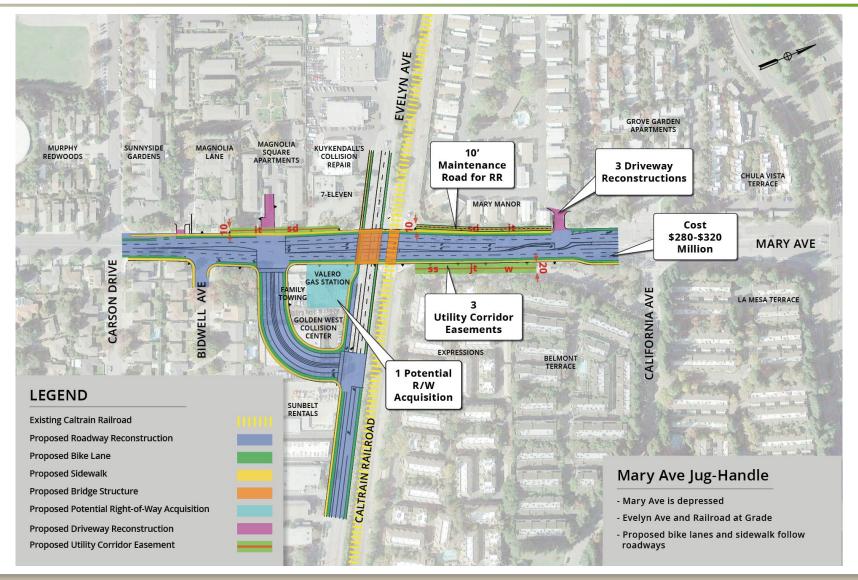


## Mary Avenue Underpass Traffic Study Summary

- Circulation same as "no build"
- Average vehicular delays
  - Less than "no build"
  - Greater than Jughandle
- Average vehicular travel times
  - Less than "no build"
  - Similar to or greater than Jughandle
- Bicycle-Vehicle conflict points
  - Same as "no build"
  - Less than Jughandle
- Pedestrian-Vehicle conflict points
  - Same as "no build"
  - Same as Jughandle



## Mary Avenue Underpass with Jughandle



# Mary Avenue Underpass with Jughandle Traffic Study Summary

- Circulation changed from "no build"
  - Changed turning movements
  - Two smaller signalized intersections
- Average vehicular delays
  - Less than "no build"
  - Less than Underpass
- Average vehicular travel times
  - Less than "no build"
  - Similar to or less than Underpass
- Bicycle-Vehicle conflict points
  - Less than "no build"
  - Less than Underpass
- Pedestrian-Vehicle conflict points
  - Same as "no build"
  - Same as Underpass



## Mary Avenue Option Comparison

		<u>Underpass</u>		Underpass with Jughandle
740/50	•	Improved over "no build"  Decreased from "no build"	•	Improved over "no build"  Decreased from "no build"
Circulation - Vehicular	•	Same pattern as "no build" Greater delay than Jughandle Longer or similar travel times	•	Altered pattern Reduced delay Shorter or similar travel times
Circulation – Bicycle and Pedestrian		Same pattern as "no build" Same conflict points as "no build"	•	Altered pattern  Decreased conflict points
Potential Private Property Impacts	•	More complex property impacts	•	Less complex property impacts
Construction Impacts	•	Impacts on both Mary and Evelyn More driveway impacts More utility impacts Similar railroad maintenance road More roadway reconstruction More construction time	•	Construction impacts only on Mary Less driveway impacts Less utility impacts Similar railroad maintenance road Less roadway reconstruction Less construction time
<b>Construction Cost Estimate</b>	•	Higher cost: \$375M - \$425M	•	Lower cost: \$280M - \$320M

## Mary Avenue – Survey Summary

- 462 responses
- Most use local businesses (30%) or commute (21%)
- Most travel by car (67%) or bicycle (22%)
- Option Preferences:
  - Jughandle (49%)
  - Underpass (27%)
  - Dislike both (17%)
  - Like both equally (7%)

- Reasons for preferences:
  - Lower cost
  - Better circulation all modes
  - Safest
  - Less property impacts
  - Less construction impacts
- Comments
  - Bike/pedestrian friendly
  - Construction impacts
  - Circulation pattern
  - Senior housing
  - Funding

## Mary Avenue – Community Feedback

- Bicyclists and Pedestrians mixed
  - Some prefer Underpass with less intersections
  - Some prefer Jughandle with less elevation changes
  - Create better active mode connections
- Businesses
  - ◆ Prefer Jughandle less property impacts
  - Concerns:
    - Construction disruption
    - Property impacts

## Mary Avenue – Staff Recommendation

 Select the Mary Avenue Underpass with Jughandle option to be defined as the Proposed Project for the grade separation of the Mary Avenue crossing of the Caltrain railroad tracks for the Environmental Review



## Mary Avenue – Bicycle and Pedestrian Advisory Commission Recommendation

- Agreed with Staff Recommendation
- Recommend to City Council the selection of the Mary Avenue Underpass with Jughandle option to be defined as the Proposed Project for the grade separation of the Mary Avenue crossing of the Caltrain railroad tracks for the Environmental Review

#### Amendments:

- Final design be brought to BPAC before City Council approval
- Final design should meet more than minimum Active Transportation Plan standards for bicycle and pedestrian infrastructure
- Investigate closing Bidwell Ave. at Mary Ave. to vehicles



## Thank You



## Q&A SLIDES

## Why is Grade Separation Needed?





Source: Caltrain Business Plan, City of Sunnyvale Booklet, May 2019

## Why is Grade Separation Needed?

#### CROSSING THE TRACKS

Gate down times shown are indicative projections extrapolated from existing crossing performance. They are examples of "worst case" gate downtimes that could occur if no grade separations or grade crossing improvements were made. The financial component of the Caltrain Business Plan is planning for substantial investments in grade separation and crossing improvements across all scenarios.



analyzing and incorporating costs associated with these projects.

Source: Caltrain Business Plan, City of Sunnyvale Booklet, May 2019

# Mary Avenue – Bicycle and Pedestrian Advisory Commission Recommendation

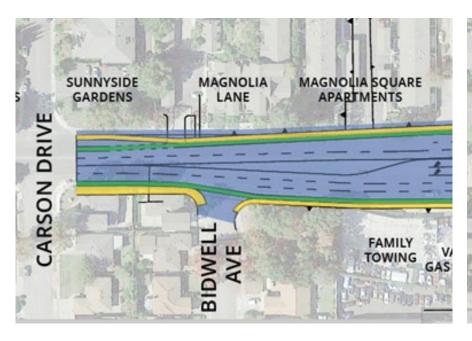
 Final design should meet more than minimum ATP standards for bicycle and pedestrian infrastructure





# Mary Avenue – Bicycle and Pedestrian Advisory Commission Recommendation

Investigate closing Bidwell Ave. at Mary Ave. to vehicles





## Mary Avenue Underpass Tunnel with Jughandle



## Sunnyvale Avenue Underpass Tunnel



## Roadway Underpass Local Examples



Jefferson Avenue, Redwood City (Google Maps)

# Bicycle and Pedestrian Undercrossing Local Examples



Santa Clara Caltrain Station Undercrossing