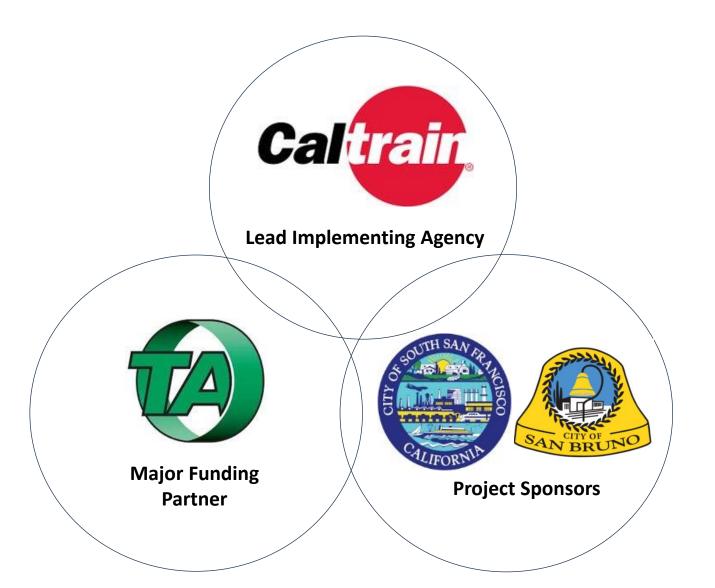


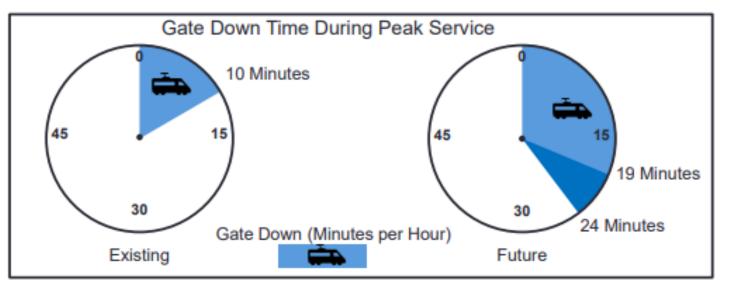


Project Partners and Roles



Forecast Gate Down Times at Peak Hours

(Long Range Service Vision – Adopted Moderate Growth Scenario)



Gate Down Times During Peak Service Hours:

Existing 10 minutes each hour

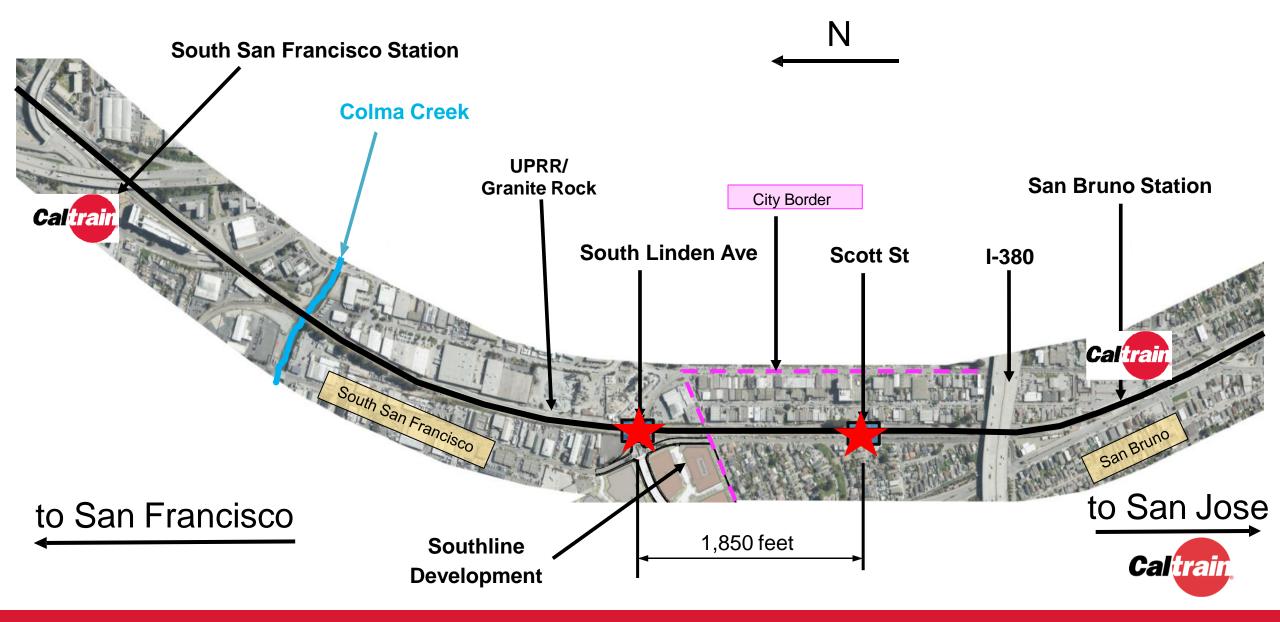
Moderate Growth* 19 minutes each hour

High Growth* 24 minutes each hour

Trains will be passing through the grade crossing every few minutes.



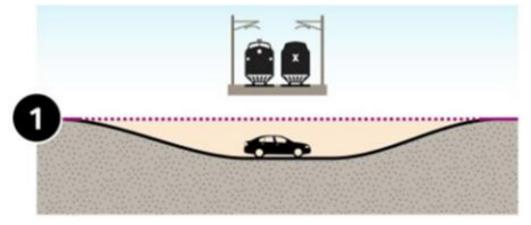
Background: Project Location/Key Features



PSR Alternative 1 – Requirements

Alternative 1: Hybrid

Rail Partially Elevated and Roadway Partially Lowered



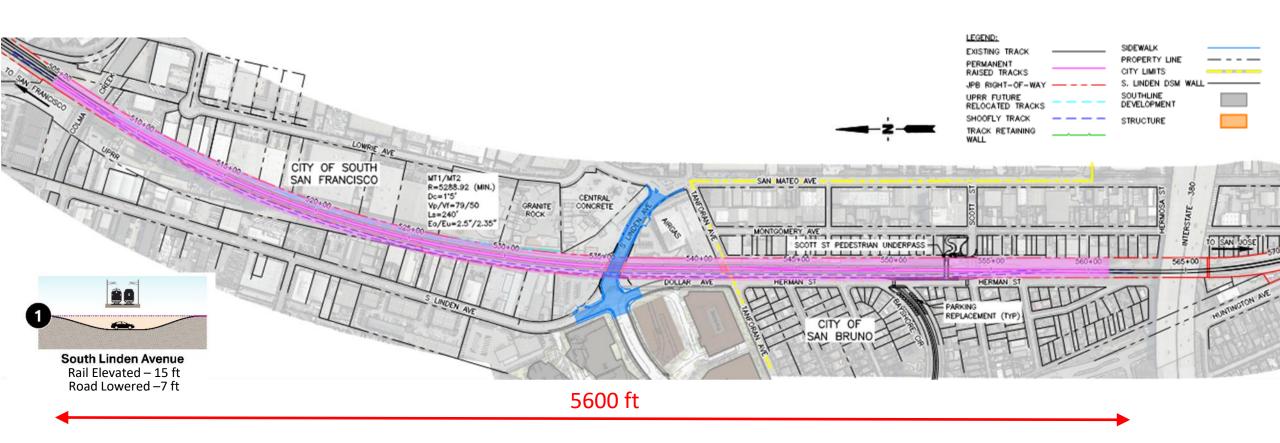
South Linden Avenue

Rail Elevated 15 ft Roadway Lowered 7 ft

Lowering roadway 7 ft, elevate railroad 15 ft. and build railroad bridge Flevate Caltrain tracks for one mile with retaining walls Electrified **shoofly** (detour) tracks Significant property and partial building acquisition/modifications Relocation of **UPRR/Granite Rock tracks** plus fiber optic and utilities Shoofly and railroad construction within safety envelope of operating, electrified

trains

PSR Alternative 1 – Design Footprint





Optimized Alternative (OA)



The evaluation revealed a refinement of the PSR alternative. A "jacked box" or Optimized Alternative that has the following characteristics and advantages:

- ☐ Retains key features of S. Linden GradeSeparation
- Lower risk (due to less ROW, no track impacts to UPRR/Granite Rock, fewer environmental impacts, faster construction)
- **☐** Fewer railroad operational impacts
- ☐ Lower cost



Box Jacking

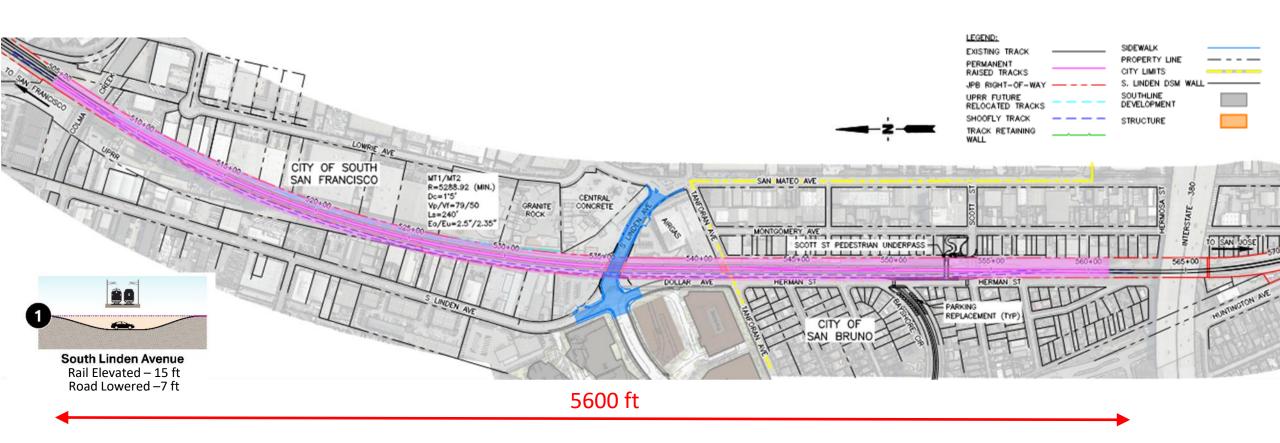
- ☐ Push or "jack" a precast concrete box beneath existing tracks
- ☐ Keeps existing railroad tracks
- Eliminates shoofly and elevated tracks





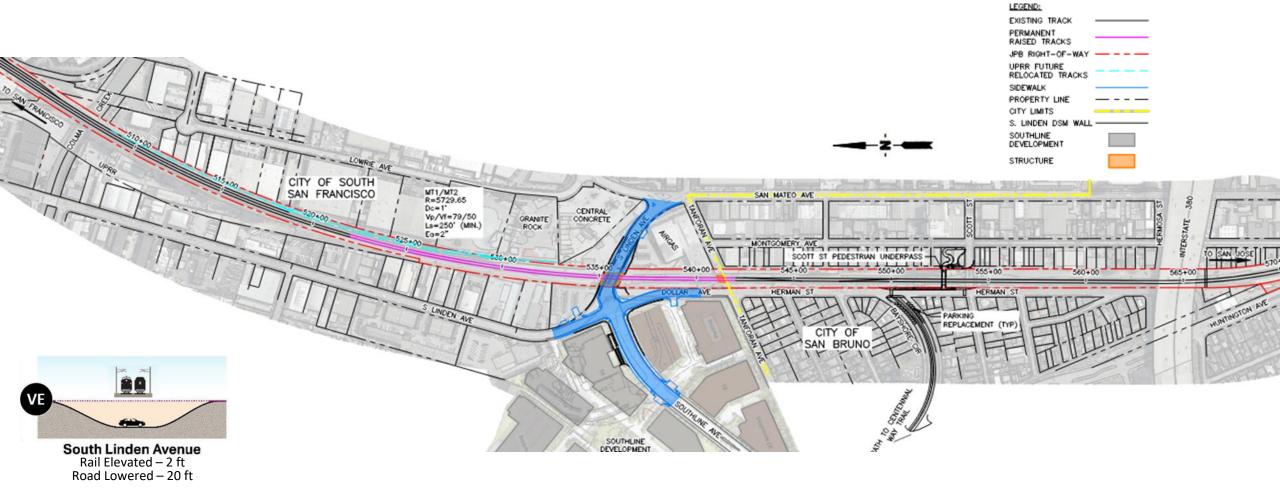


PSR Alternative 1 – Design Footprint





Optimized Alternative – Design Footprint



Design Alternative Comparison

Project Element	PSR Alternative 1	Optimized Alternative
Construction Schedule	84 months	36 months
Construction Cost 1,2,3,4	\$450	\$320
Property Owners Impact	Extensive	Moderate

- ¹ Dollars shown are in millions.
- ² Based upon escalation of 5% to midpoint of construction
- ³ Assumes all funding available when required
- ⁴ Estimate not adjusted for risk

Slide does not show total project cost



Similar Project – Jefferson Avenue in Redwood City



- ☐ Road lowered approx. 24 ft
- ☐ Track kept at existing elevation
- ☐ Fully accessible for peds/bikes/autos
- Retaining walls allow for building construction and landscaping



Video Rendering of South Linden Ave - OA



- ☐ Road would be lowered by 22 ft
- ☐ Track would be raised less than 2 ft
- ☐ Fully accessible for peds/bikes/autos
- ☐ Retaining walls allow for building construction and landscaping

Summary

With new analysis of the design, constructability, and risks, Caltrain endorses **the Optimized Alternative** as a **more effective** and **realistic** option to advance forward with design.

By contrast, the PSR Alternative is least practical alternative due to:

- > 7-year construction duration
- > the large **impacts** (ROW, the environment, the footprint, traffic)
- the higher cost, higher risk, and fundability
- > the impacts of **safety** clearances
- > the construction **inefficiencies** (constrained site access, electrified operating railroad environment)



Next Steps

- On-going engagement with property/businsess owners
 - Winter through Spring 2025
- San Bruno City Council Action on staff recommendation
 - January 28th, 2025
- South San Francisco City Council
 - February 12th, 2025
 - Environmental Phase
 - Preliminary engineering (15%-35%)



