

Fernside Boulevard Traffic Calming & Bikeways Project

Existing Conditions & Toolbox







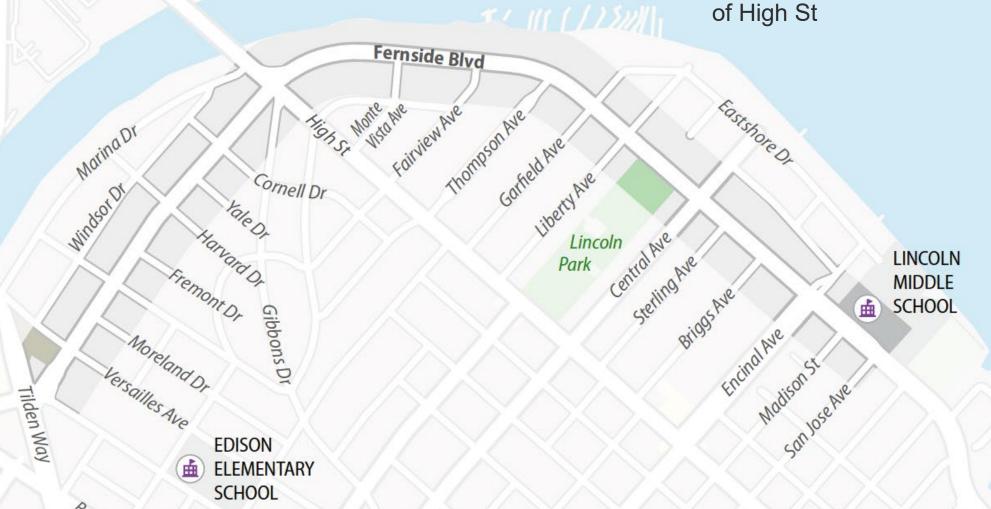


About the project

1.3 Mile Corridor Project

Project subsets:

- Design concept for full corridor
 - **≪**z Near-term upgrade with resurfacing west



Why are we here?

Project goal: reduce traffic speeds and improve safety and mobility for all

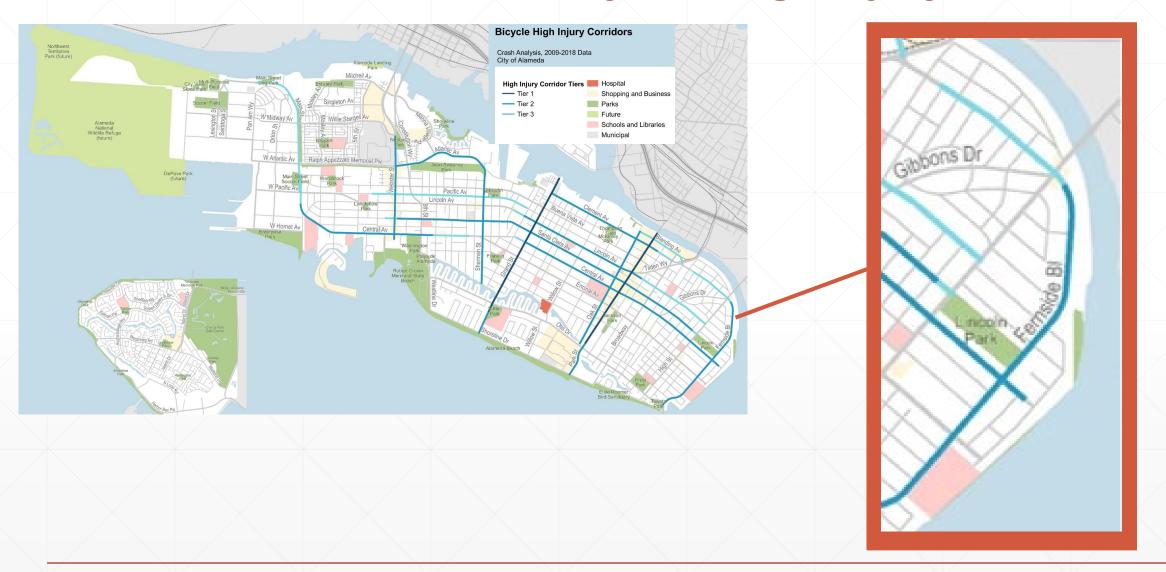
- Coordinate with pavement resurfacing
- Implement plans and policies:
 - Vision Zero Action Plan
 - Active Transportation Plan
 - City Council Strategic Plan
 - San Francisco Bay Trail (regional)



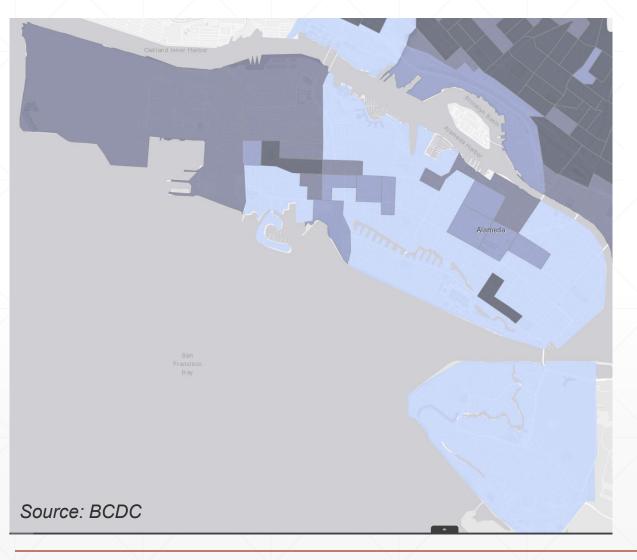
Fernside is a Tier 3 High Injury Corridor, All Modes



Fernside has Tiers 2 & 3 Bicyclist High Injury Corridors



Fernside not in an Equity Priority Area



Highest social vulnerability

High social vulnerability

Moderate social vulnerability

Low social vulnerability

Fernside in Active Transportation Plan: Low-Stress Bikeway



- Adopted plan shows Fernside with a protected bike lane
- Key to the 2030 Low-Stress Backbone Network for all ages and abilities
- Part of regional San Francisco Bay Trail



Community Concerns about Street Safety



History

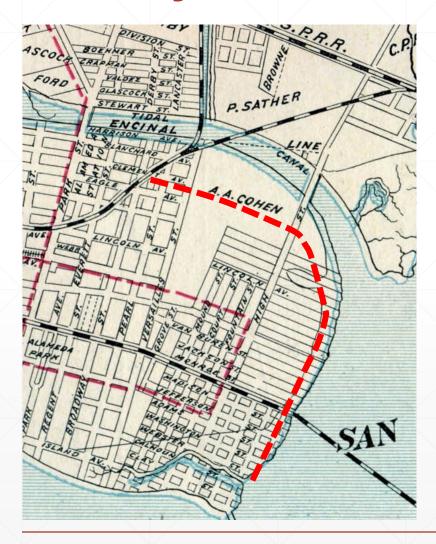
History

Late 1800s: A.A. Cohen's 106-acre Fernside estate



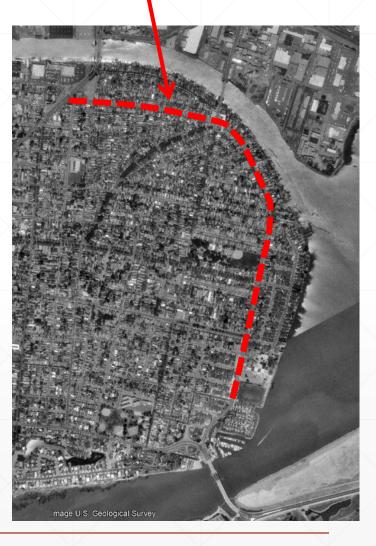


History





Fernside Blvd.



Fernside Estate: ca. 1900

Fernside Loop: 1911

Eastshore Fill: 1950s





Existing Conditions

Fernside Boulevard Recent Enhancements

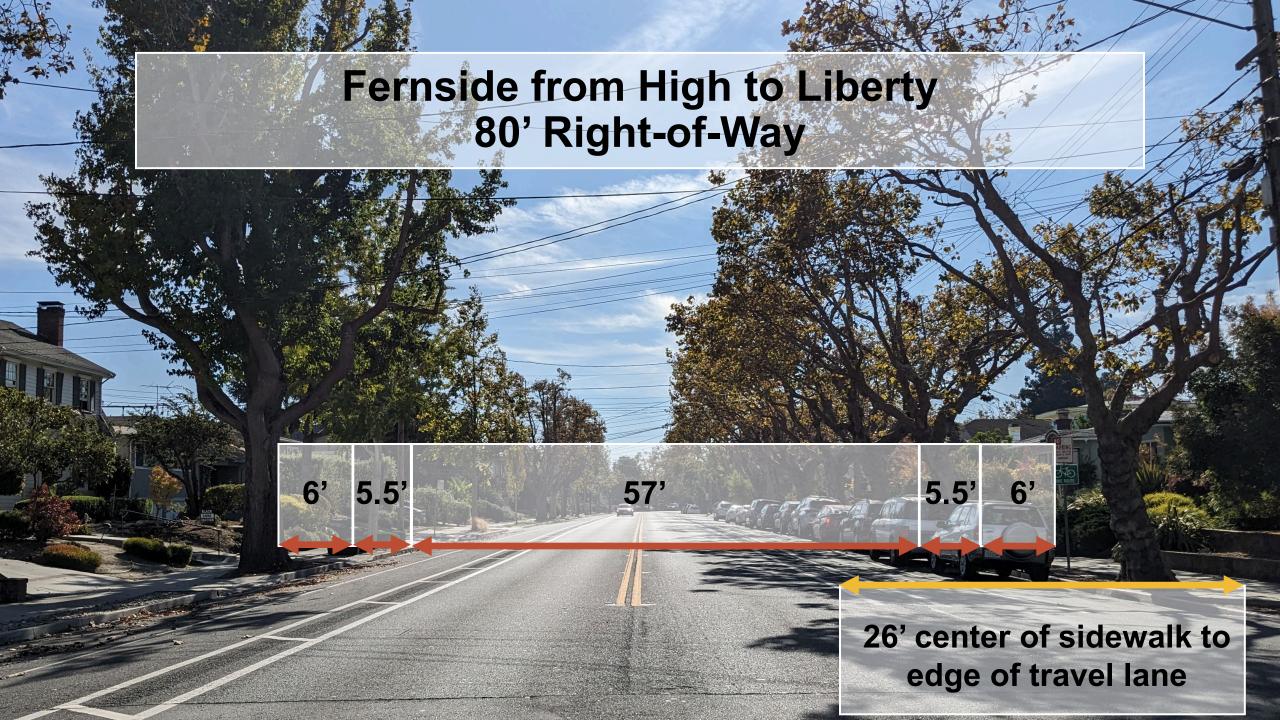
- At Versailles Ave:
 - 2010: Uncontrolled crossing upgraded to high-visibility striping
 - 2013: RRFB and concrete crosswalk protection improvements
- At Cambridge Dr.
 - 2014: Speed feedback sign below posted speed limit sign
- At Harvard Ave:
 - 2013: Uncontrolled crosswalk at Harvard Ave installed
 - 2021: RRFB and concrete crosswalk protection improvements
- At High St:
 - 2013: Removed second travel lane merge west of High St.
- East of High St:
 - 2019: Upgrade to buffered bike lanes as part of roadway repaving
- Between Otis and Lincoln Middle School
 - 2009: Two-way bikeway access to school

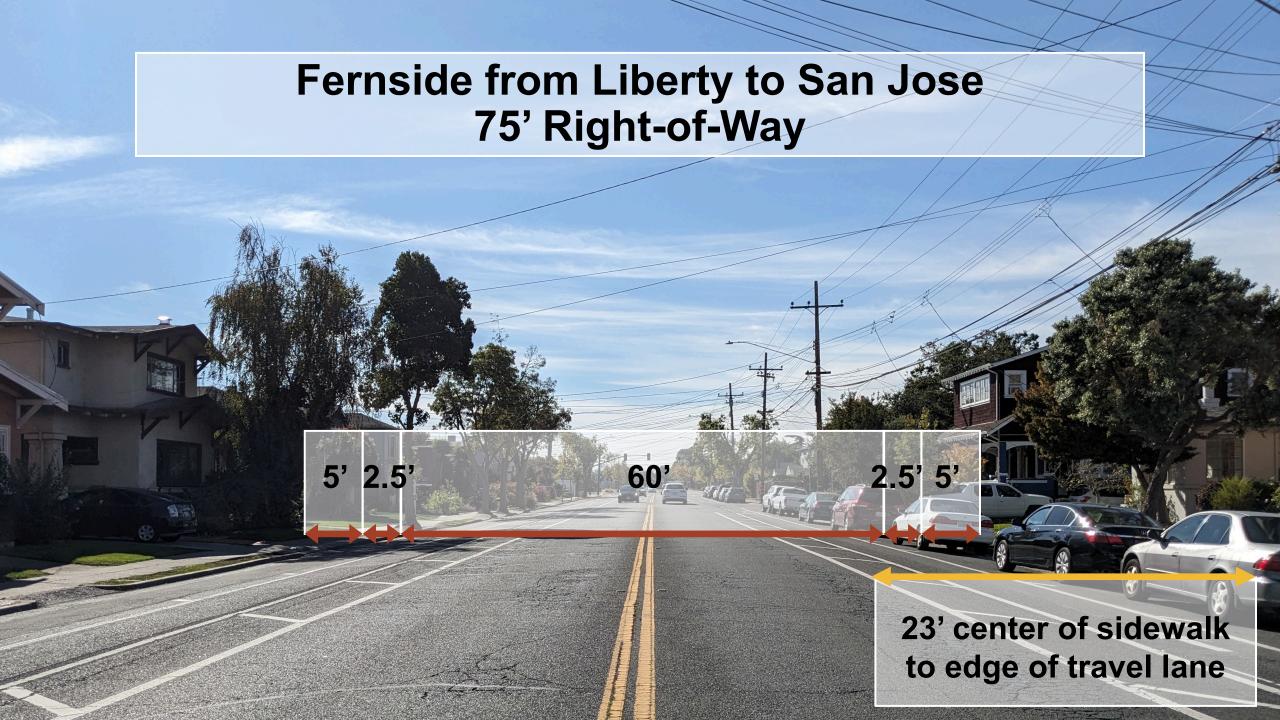








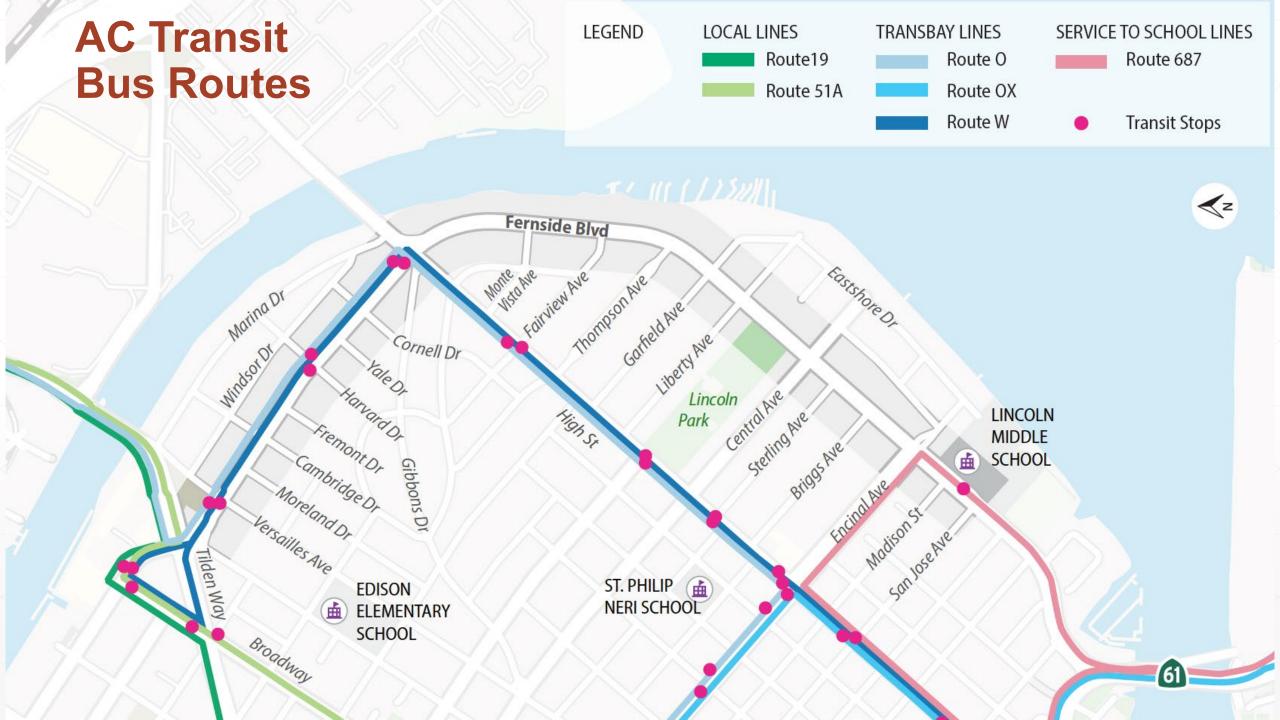




1,000 to 2,000 feet between Marked Crosswalks from Versailles Ave to Garfield Ave

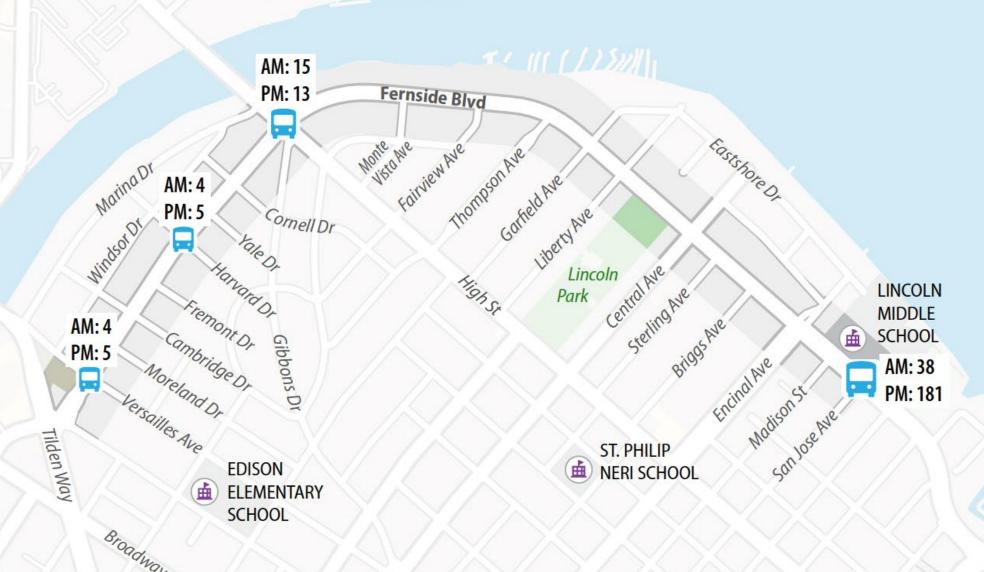






Bus Boardings and Alightings



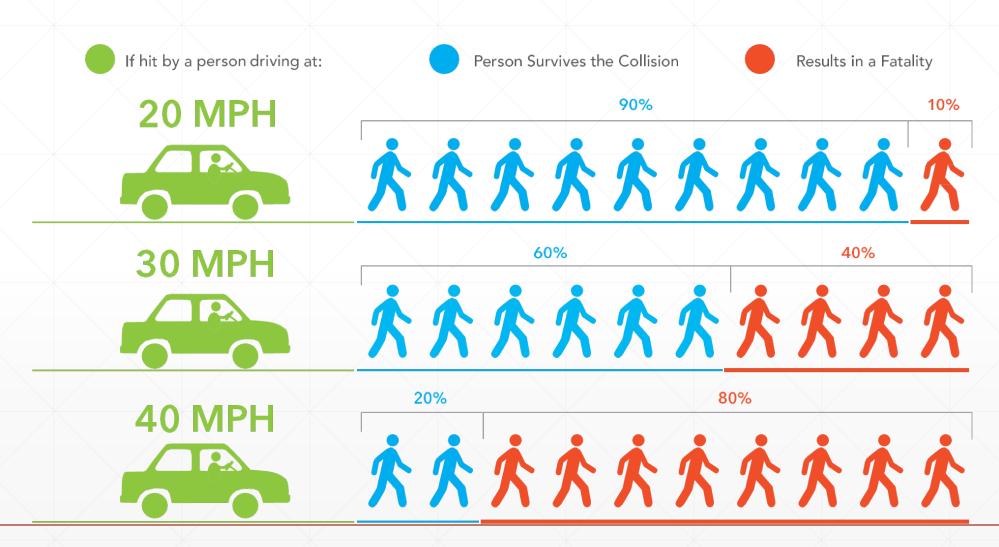






Crash History

Vehicle Speed and Crash Outcomes Involving Pedestrians

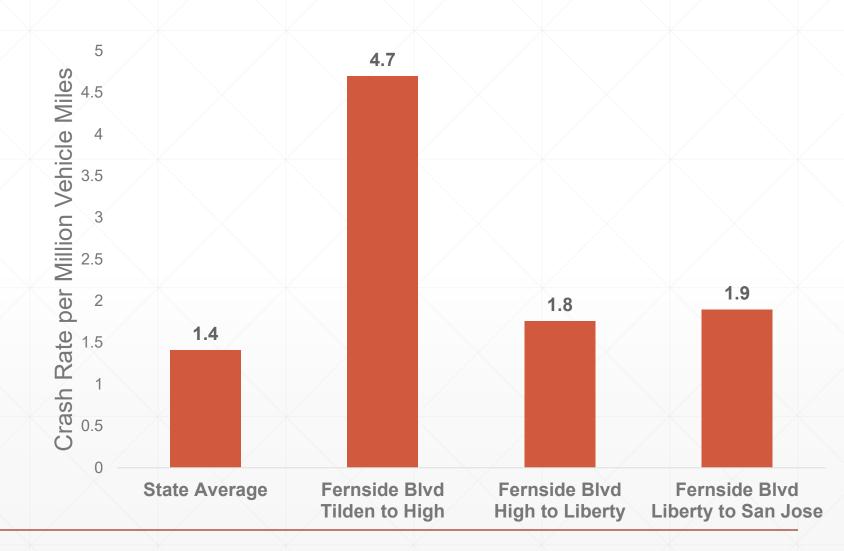


High Crash Rate throughout the Corridor

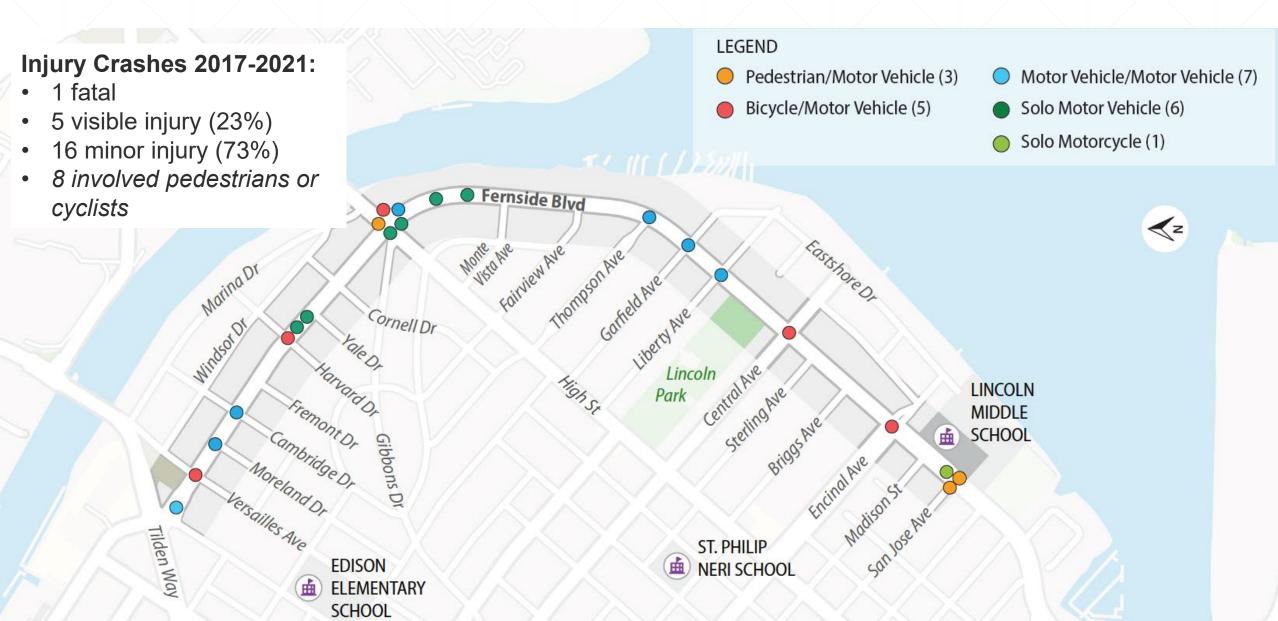
64

crashes from 2017-2021

(including non-injury crashes)

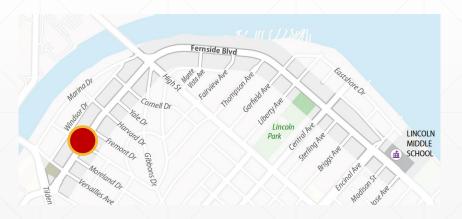


22 Injury Crashes from 2017-2021



Fatal Crash: September 6, 2021

- Fernside & Cambridge intersection
- High-speed driver on Cambridge failed to stop at stop sign, causing broadside collision with another vehicle traveling on Fernside











Data Collection

Existing Speed Limit is 25 mph, but Actual Vehicle Speeds are Higher

Average Speed: 30 mph

85th Percentile Speed: 35 mph

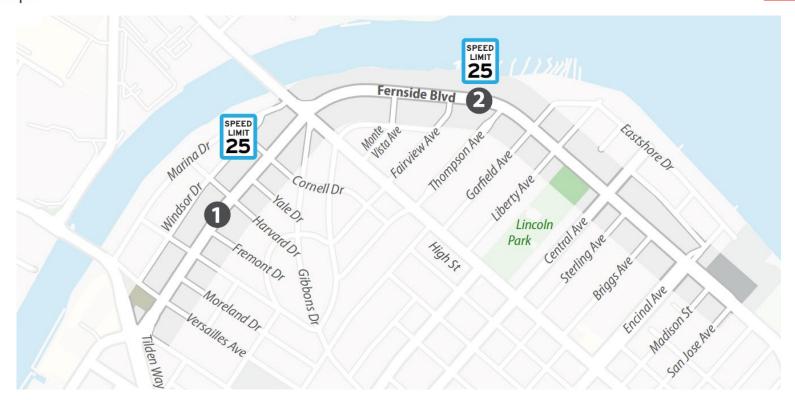
Highest speed recorded: 46 mph

Average Speed: 31 mph
85th Percentile Speed: 35 mph

Highest speed recorded: 44 mph



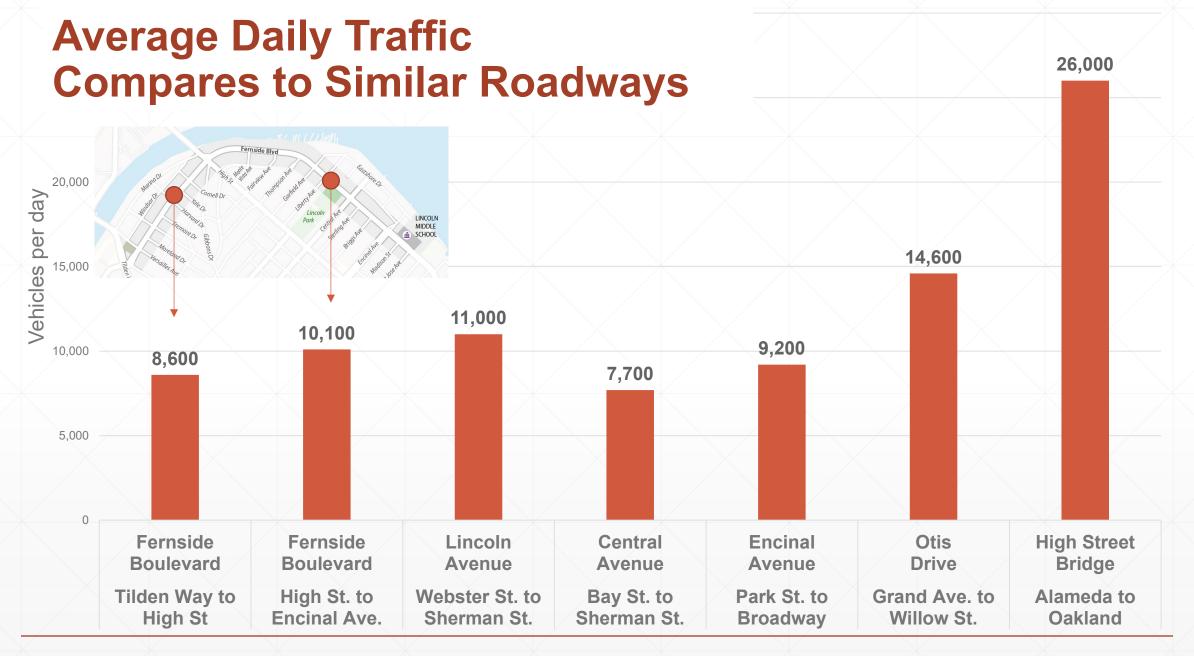






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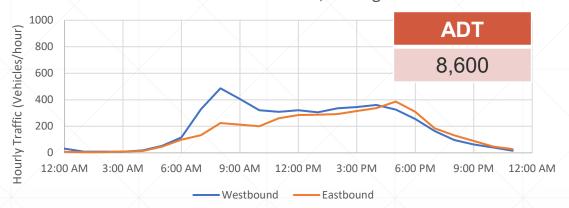
Speed survey conducted on 10/24/2023



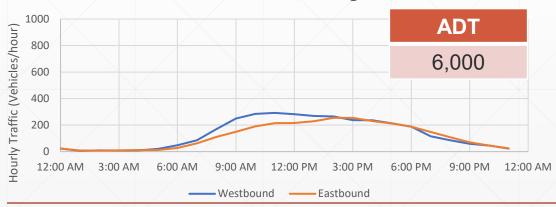
Fernside Carries 200 to 500 Vehicles per Hour in Each Direction



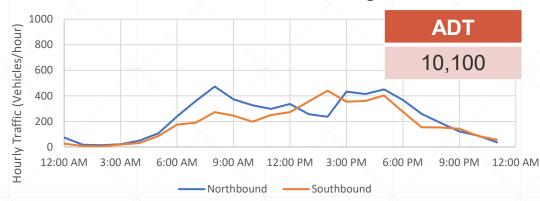




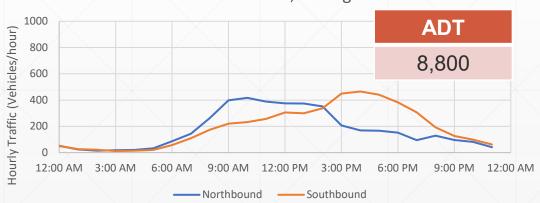
Fernside east of Harvard; Average Weekend



Fernside north of Central; Average T-Th



Fernside north of Central; Average Weekend

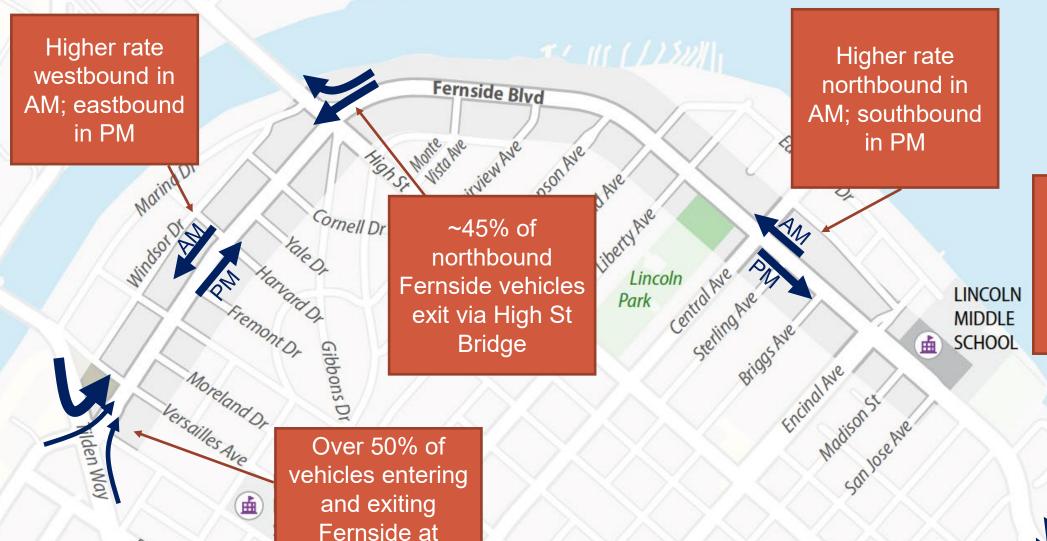


Vehicles Flow to and from Bridges

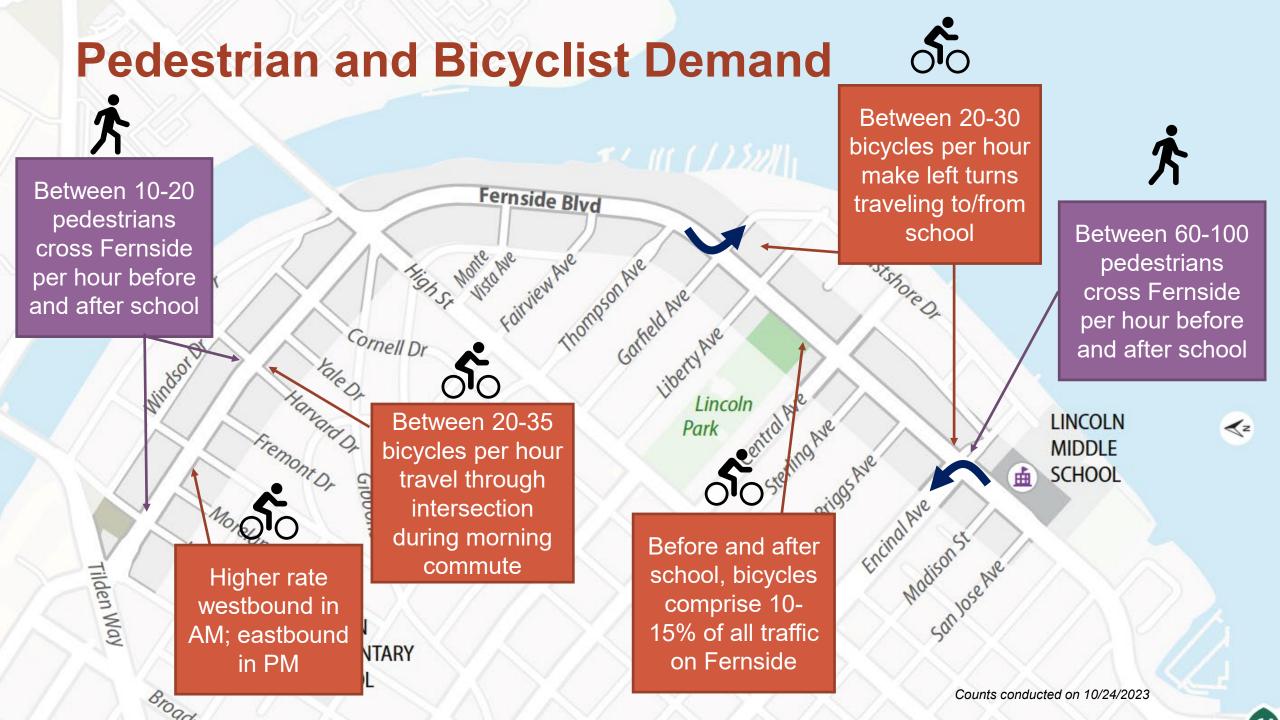
Tilden Way cross

Fruitvale Bridge

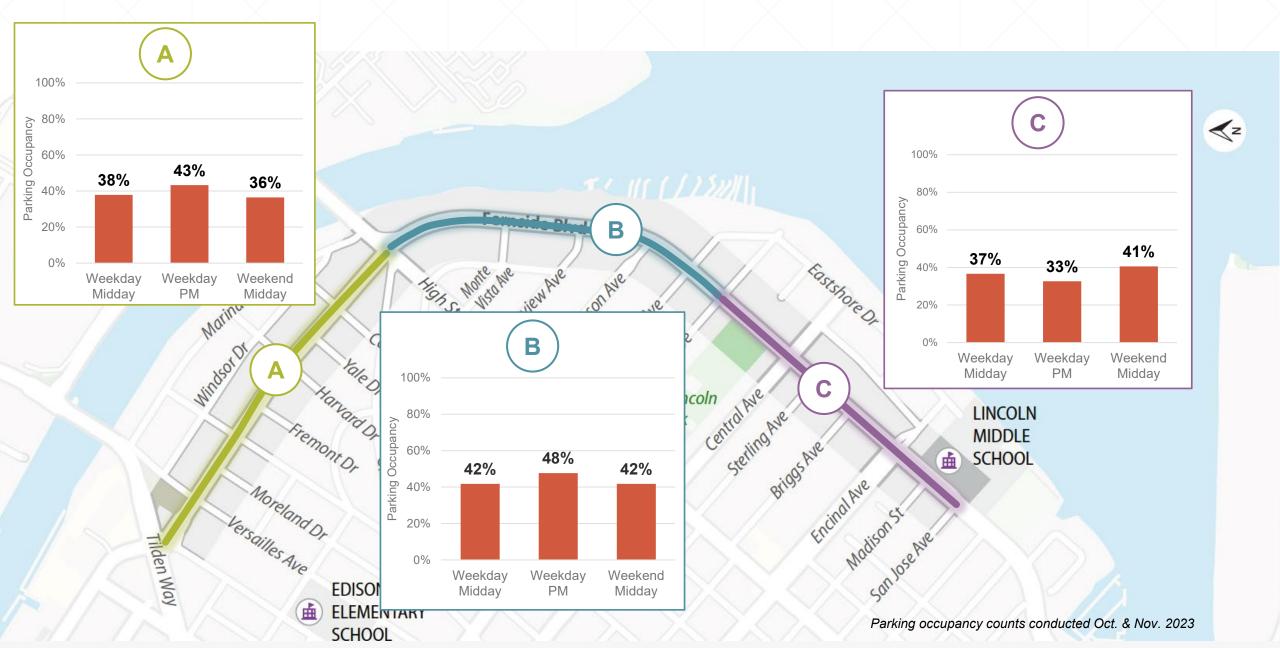




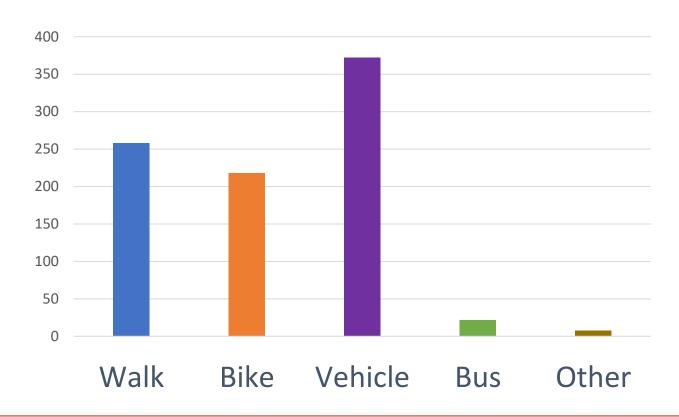
Over 90% of vehicles entering and exiting Fernside at Otis cross Bay Farm Island Bridge



On-Street Parking Less Than 50% Occupied

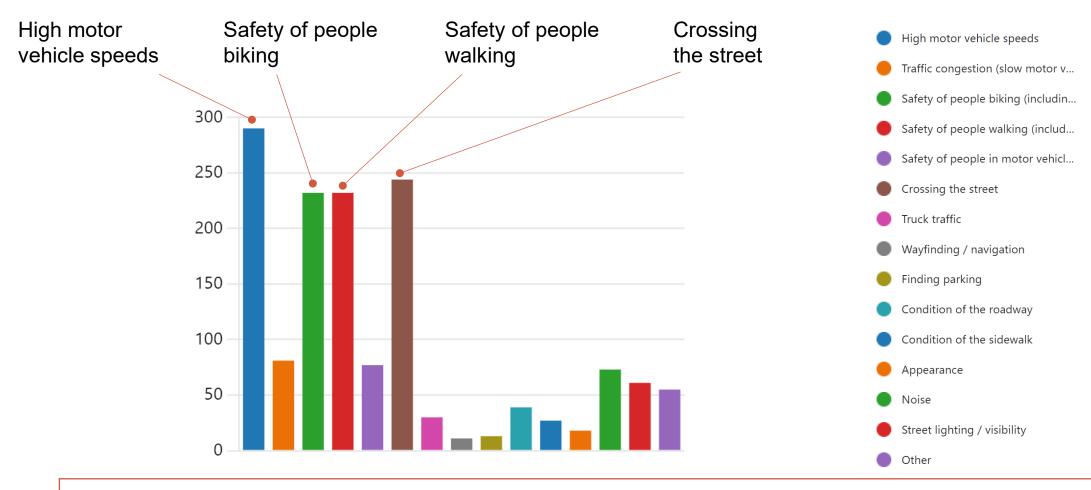


Online Survey Results: 408 Responses as of Dec. 1



What mode(s) of travel do you often use when traveling along or crossing Fernside Boulevard?

Online Survey Results



What do you find most challenging when using Fernside Blvd?

Sample Survey Responses

"It's difficult to get in or out of driveways"

"Its complicated to get to the twoway bike lane"

"The street is too wide"

"Cars are traveling way too fast"

"Crossing Fernside on foot is risky"

> "I would to see more street trees"

"The street is poorly lit"

"Protected bike lanes would be great"

"Cars often speed through crosswalks"

"The intersection at High and Fernside is dangerous"

"Cars pass in the median"

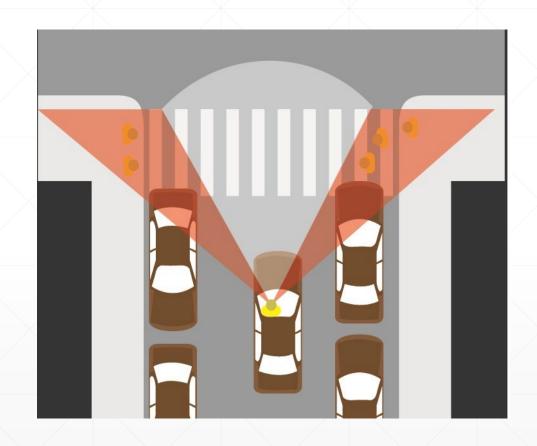
"I would love more crosswalks"

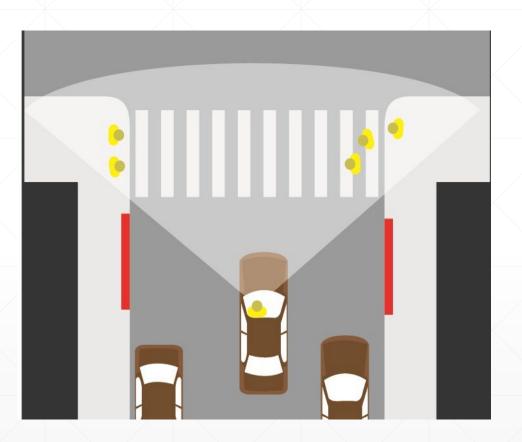




Improvement Toolkit – Traffic Calming & Safety

Improved Sight Lines





High Visibility Crosswalks





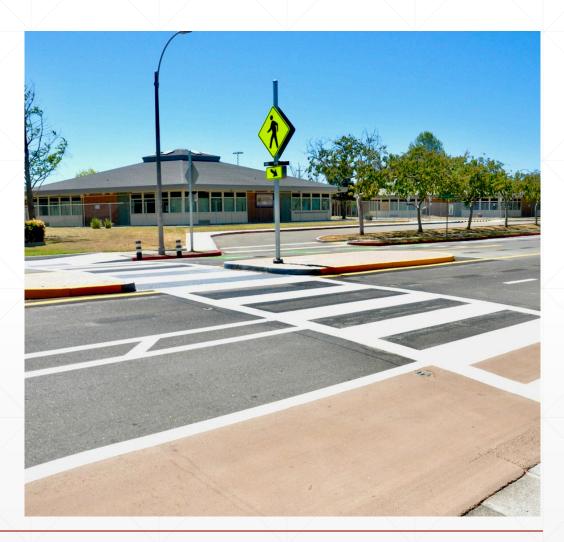
Rectangular Rapid Flashing Beacon





Pedestrian Refuge Islands





Bulbouts





Speed Feedback Sign





Bus stop enhancements









Improvement Toolkit – Bikeways

Buffered Bicycle Lanes



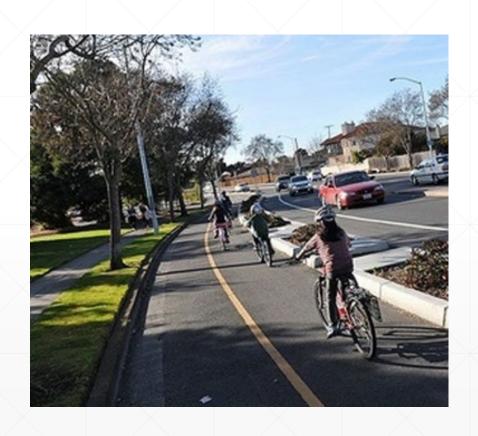


Physically Separated Bike Lane: 1-Way





Physically Separated Bike Lane: 2-Way





Raised Bike Lane



