

Northbound US 101 to Eastbound I-580 Direct Connector

TAM Board of Commissioners December 13, 2021



Introduction

- Introduction to the Issue:
 - There is no direct access between Northbound 101 and Eastbound 580 to the Richmond-San Rafael Bridge (one of only two toll bridges without direct access)
 - Building this connection has been identified as a priority for ~10 years and has received locally and regionally approved funding
 - TAM Vision Plan (2017)
 - Caltrans US 101 North Comprehensive Multimodal Corridor Plan (2020)
 - Plan Bay Area 2050 (2021)

Systems Approach to Improvements

- Build the northbound US 101 to eastbound I-580 Direct Connector
- Complete the Marin-Sonoma Narrows
- Improve Highway 37 and protect it from Sea Level Rise
- Modernize and improve interchanges
- Provide Ramp Metering along Hwy 101
- Add Bus on Shoulder on southbound Hwy 101
- Improve Park and Ride Lots for more convenient and faster regional bus service
- Relocate Bettini Transit Center



Purpose and Need

Regional Traffic Existing and Future No Build Travel Times From Tamalpais Dr to RSR Bridge

(101)

Through Bellam Blvd

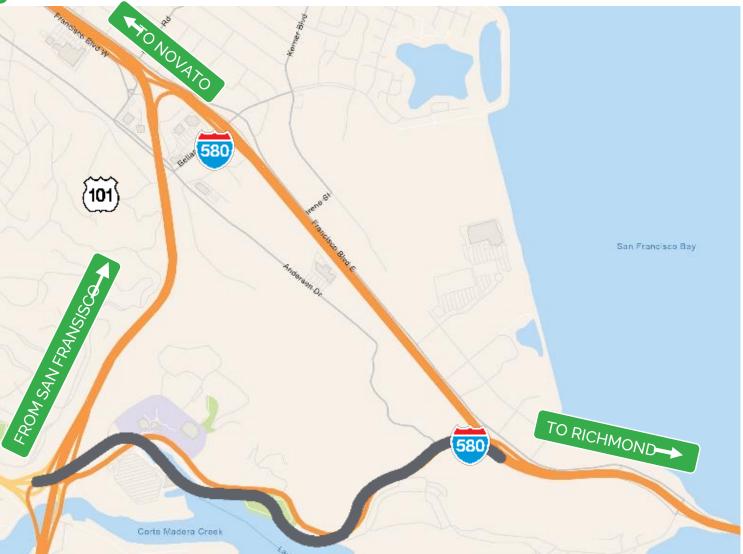
Existing: 7.6 to 16 min

2040 No-Build PM: 26.5 min

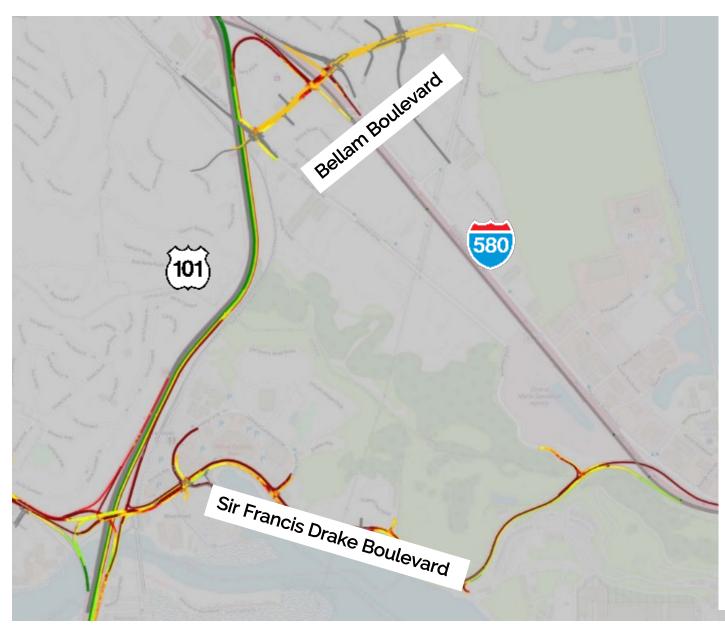
Through Sir Francis Drake

Existing: 7.0 to 14 min

2040 No-Build PM: 27.5 min



2040 Local Access Congestion - No Build

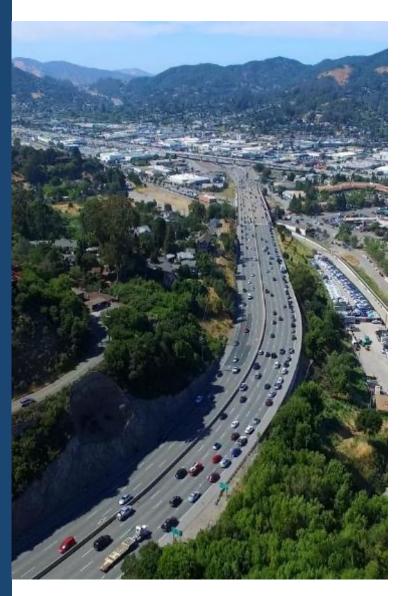


With no direct connector SFD will become more congested and traffic will utilize Bellam

Peak Hour Travel Time Tamalpais On-Ramp to Bellam Off-Ramp

Existing Conditions – 13.3 minutes

Year 2040 No Build – 25.0 minutes



Project Goals and Objectives

- Build a new freeway-to-freeway connection between NB US 101 and EB I-580 to improve connectivity and traffic flow for local and regional traffic
- Separate regional pass-through traffic from local traffic and reduce local traffic congestion
- Enhance bicycle and pedestrian network and local access within the project area
- Promote equity for all users, particularly members of the under-represented communities within the project area
- Project should not preclude construction of future WB 580 to SB 101 Connector

Current Project Funding

- Regional Measure 3 (bridge toll funding):
 - \$135M for project planning and construction
- Local Funding (Marin County ½ cent transportation sales tax):
 - \$16.5M to expedite project planning and to fund local improvements

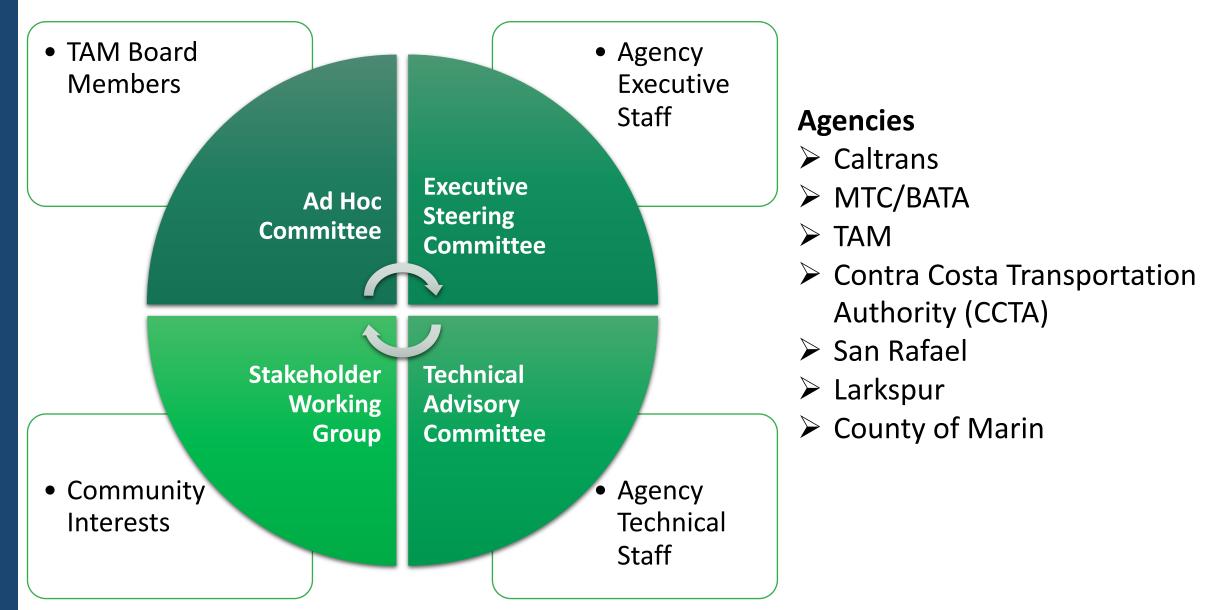
Project Development Process

Project Timeline

Currently in planning phase, start of EIR expected in 2022



Project Development Committees



Stakeholder Working Group

Interest	Organization
Bike & Pedestrian	Marin County Bicycle Coalition
Bike & Pedestrian	San Rafael Bike/Ped Adv. Comm.
Business	Country Mart, Larkspur Landing
Business	East San Rafael Businesses
Business	Larkspur Chamber of Commerce
Business	San Rafael Chamber of Commerce
Community	San Rafael City Schools
Community	Multicultural Center of Marin
Community	College of Marin
Community	League of Women Voters
Community	Fed. of San Rafael Neighborhoods
Community	Canal Alliance
Community	Pt. San Quentin Village HOA
Community	Bret Harte Community Assoc
Commuter	East Bay to/from Larkspur
Commuter	East Bay to/from San Rafael
Environmental	Marin Conservation League
Environmental	Sustainable Marin
Environmental	Sustainable San Rafael

Coordination & Outreach

Project Committees

 Technical Advisory Committee, Executive Steering Committee, Ad Hoc Committee, Stakeholder Work Group

Cities and Agencies

 Caltrans, San Rafael City Council, City of San Rafael staff, San Rafael Bicycle & Pedestrian Advisory Committee, TAM Citizens' Oversight Committee, City of Larkspur, GGBHTD, and Marin Transit

Community Organizations

 Canal Alliance, League of Women Voters, Multicultural Center of Marin, Federation of San Rafael Neighborhoods, East San Rafael Working Group, Resilient Shores, Marin Conservation League, Pt. San Quentin Association, and Spinnaker Point & Baypoint neighbors

Property Owners

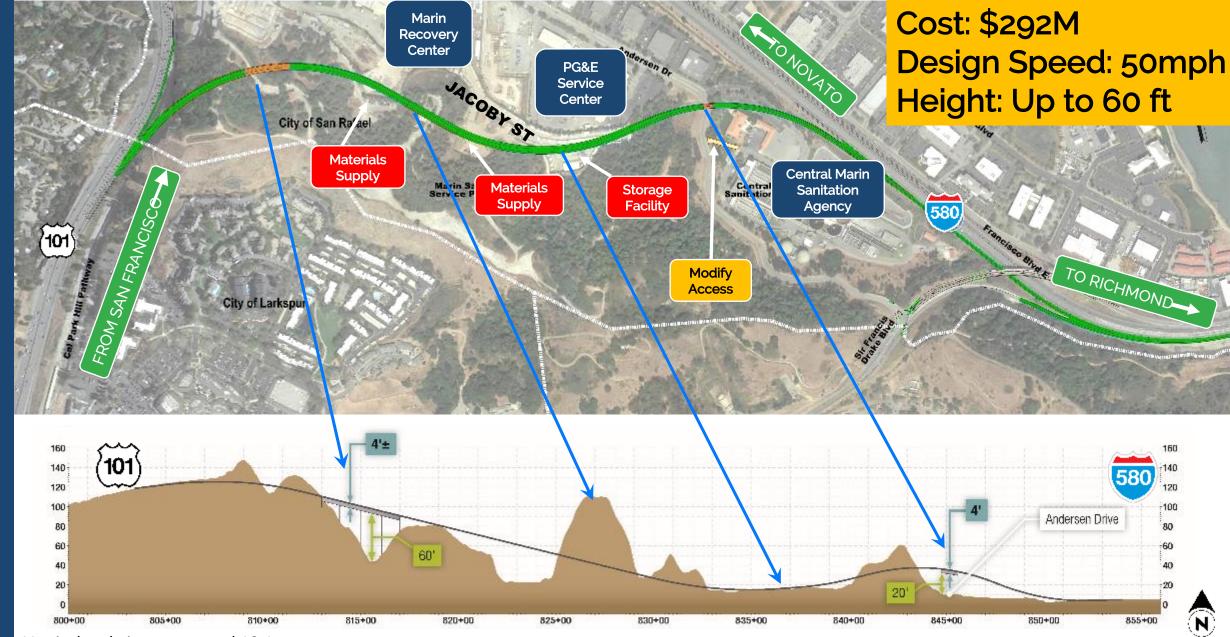
Central Marin Sanitation Agency and Marin Sanitary Services

Project Alternatives

Alternatives Under Consideration



Alternative 1A - Hillside A

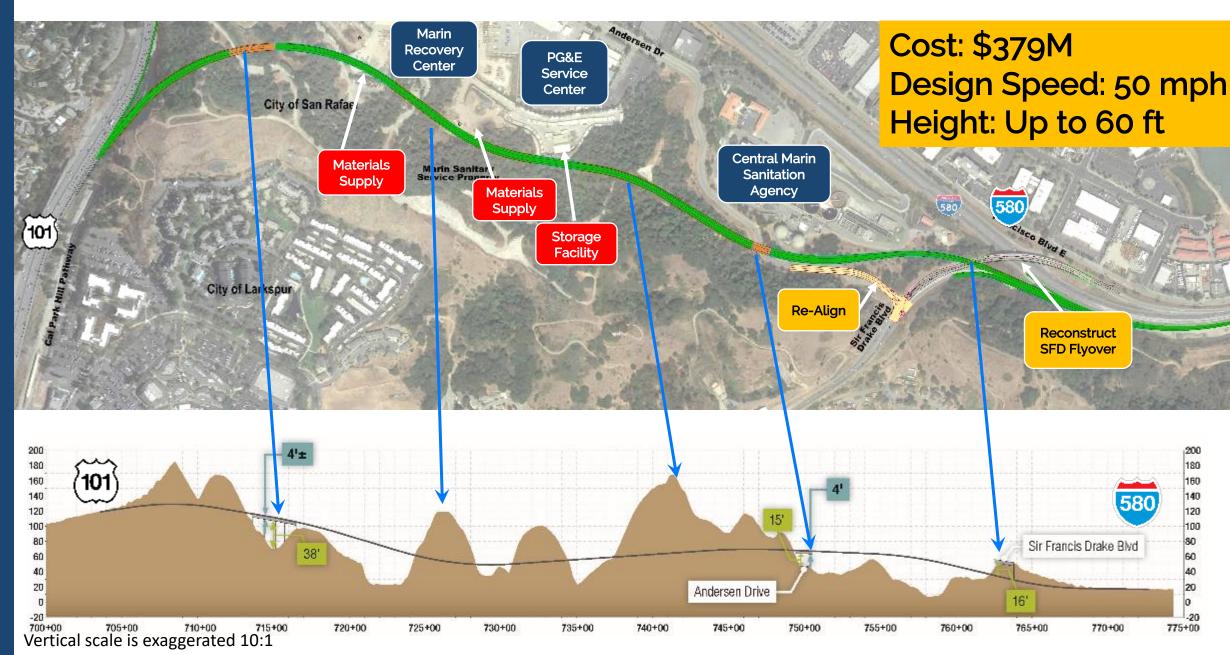


Vertical scale is exaggerated 10:1

Alternative 1A: Bird's Eye View



Alternative 1B



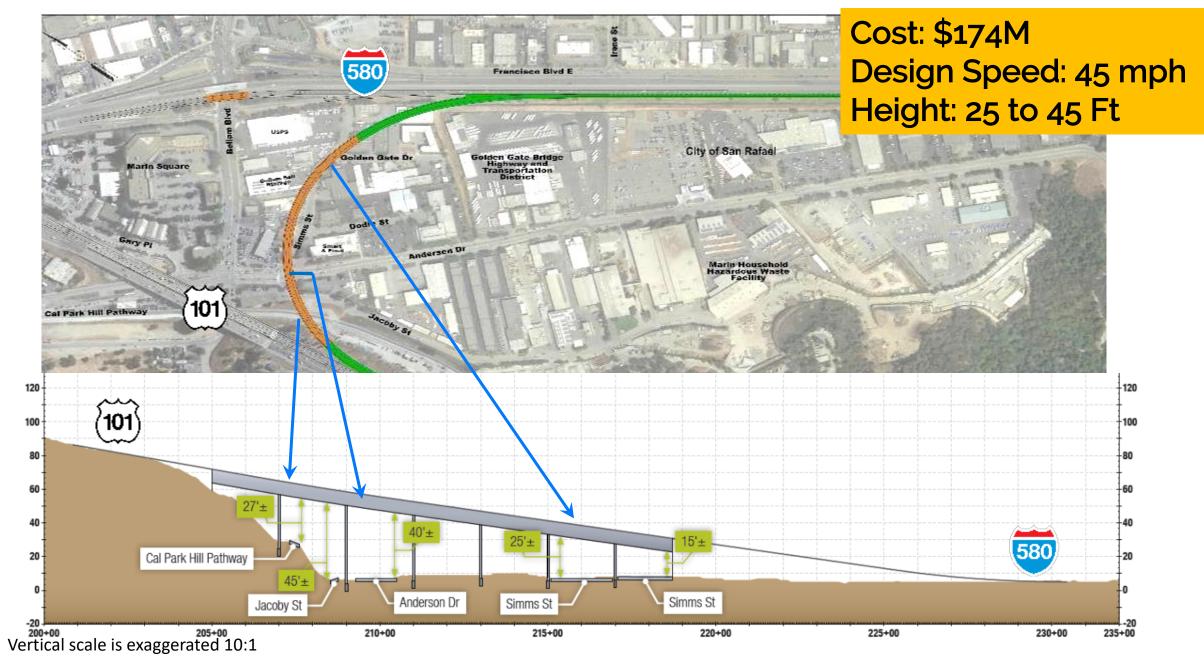
Alternative 1B Bird's Eye View



Alternative 1A/1B View at Exit from NB US 101



Alternative 2 - Simms St



Alternative 2 View from Hill Side West/South of US 101

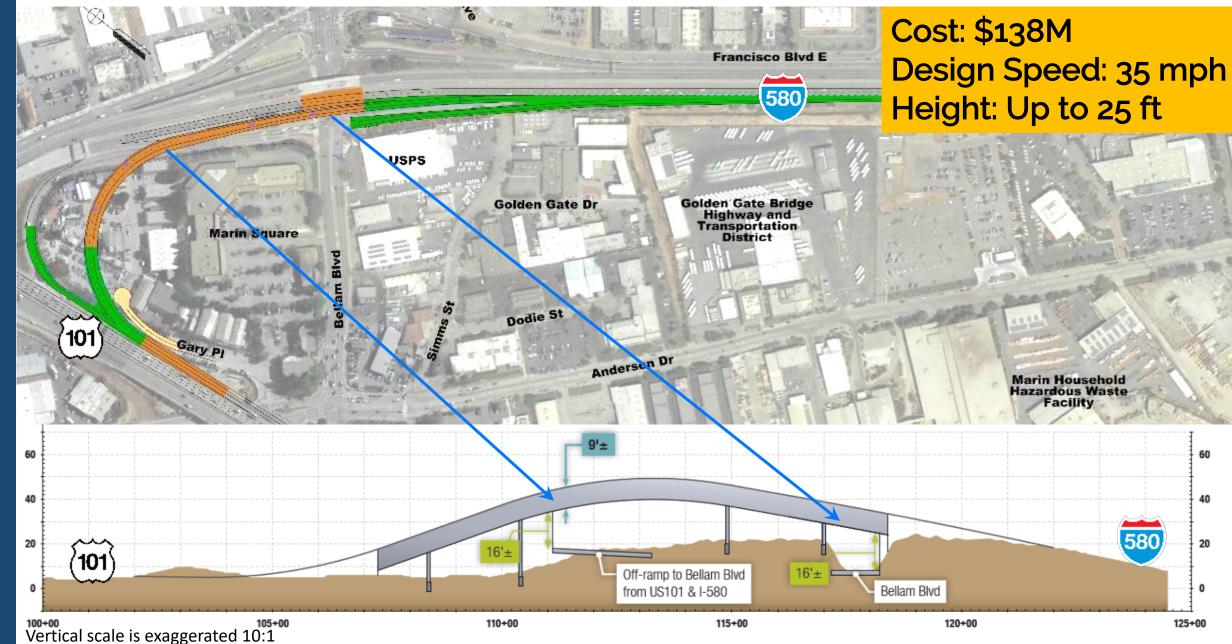


Alternative 2 View From Cal Park Path





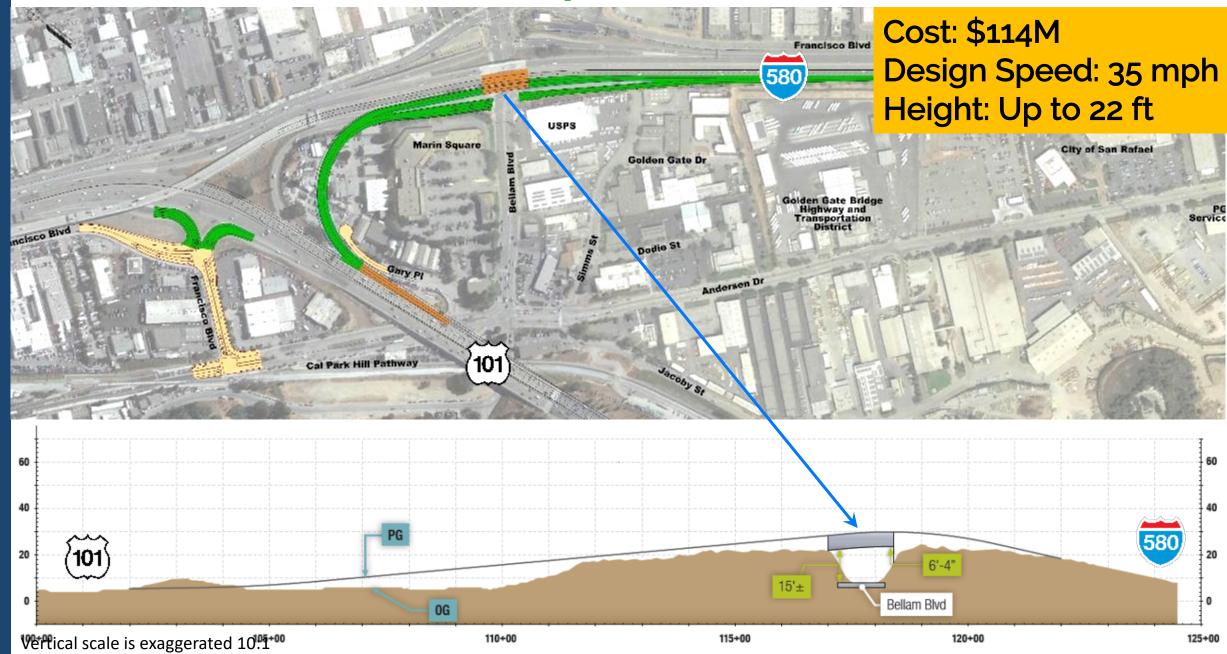
Alternative 3A - "Low Speed A"



Alternative 3A Rendering



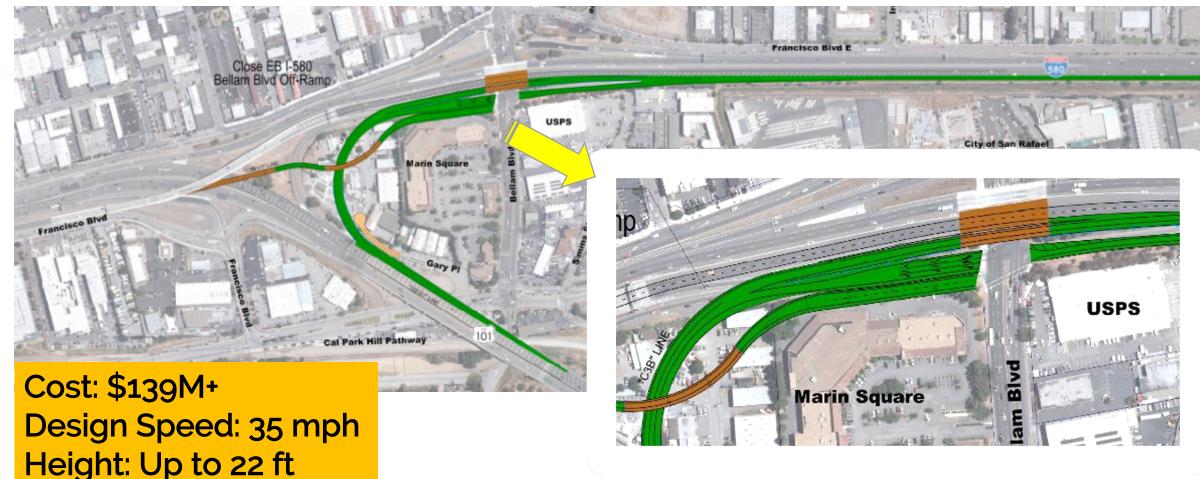
Alternative 3B - "Low Speed B"



Alternative 3B Rendering

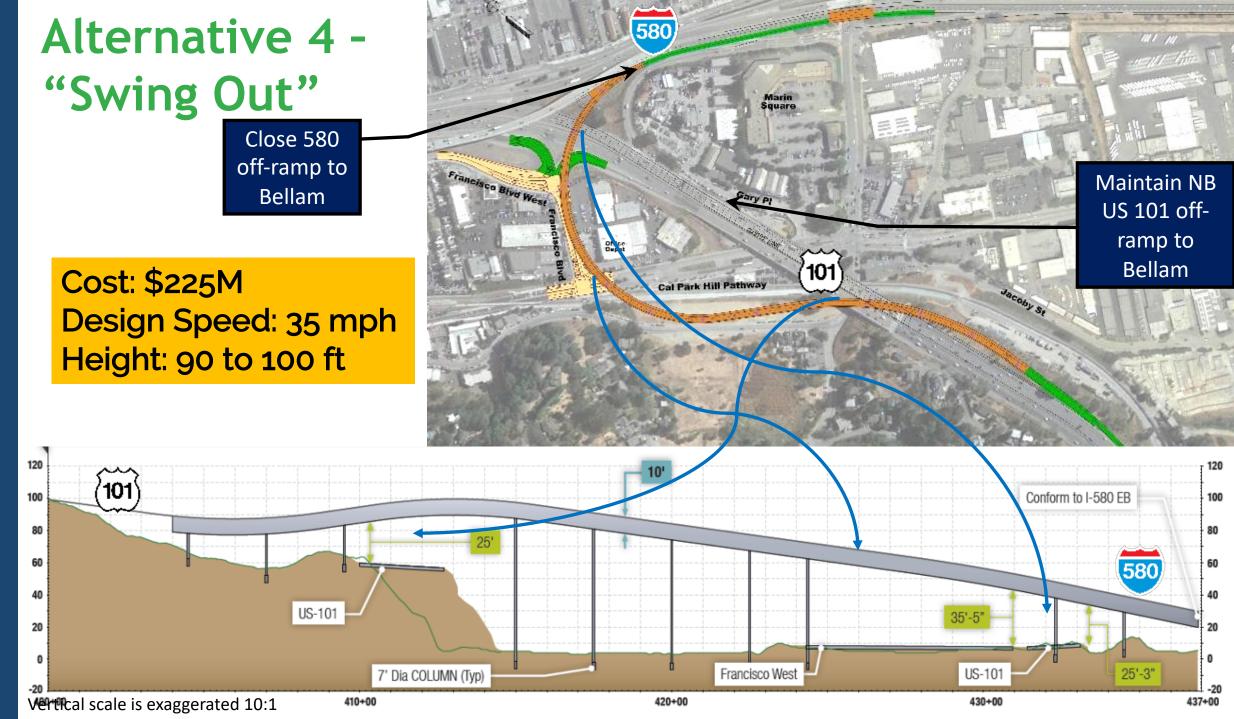


Modified Alternative 3B with New Bellam Exit

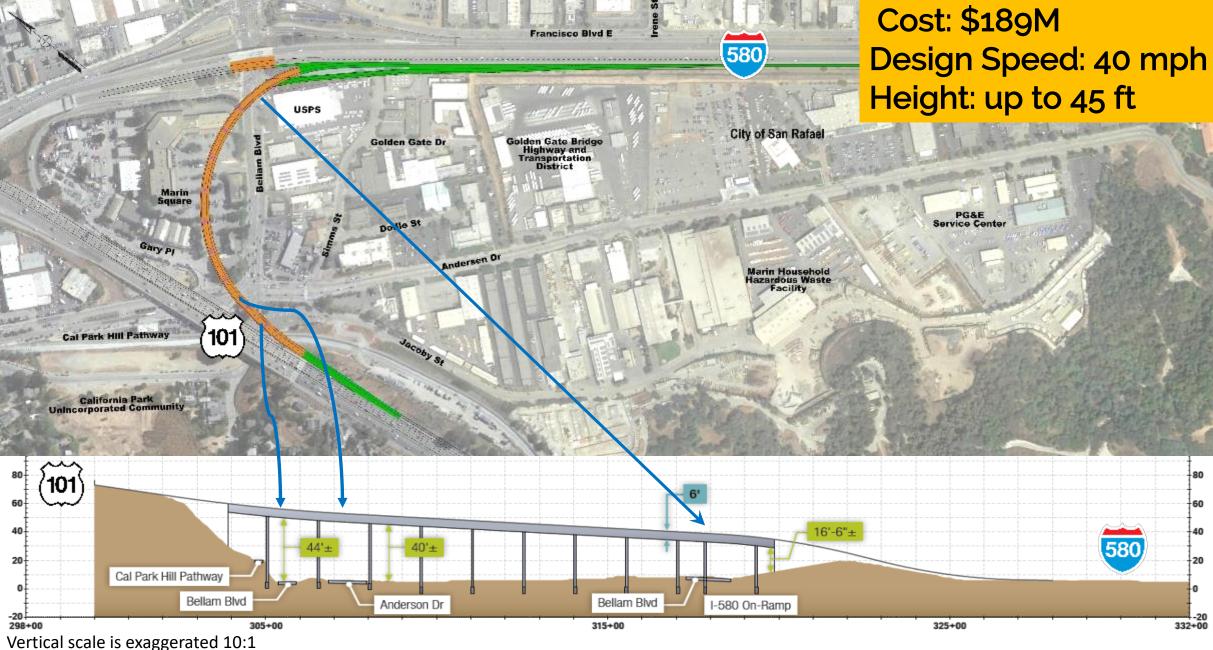


Modified Alternative 3B - Visual Sim





Alternative 5 - "Medium Speed"

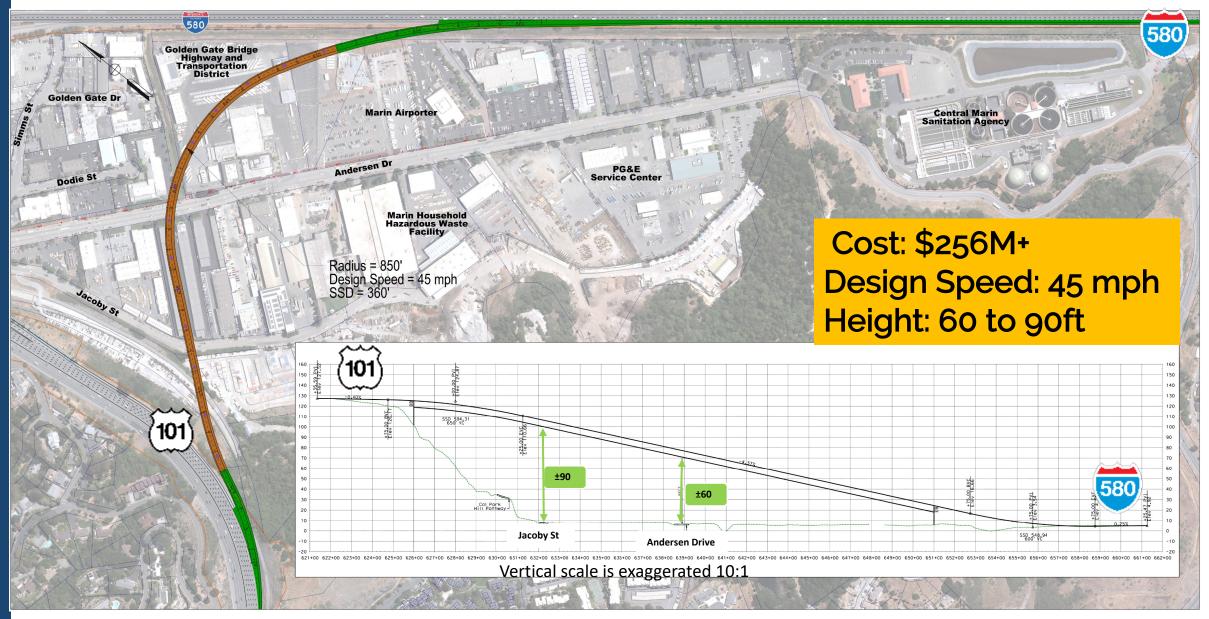


Alternative 5 - "Medium Speed"



Alternative 6 - Andersen Dr Mid-Way





Andersen Dr Mid-Way - Visual Simulation



Bellam Improvements - Replace Existing Structure



Potential Bellam Pedestrian & Bicycle Improvements



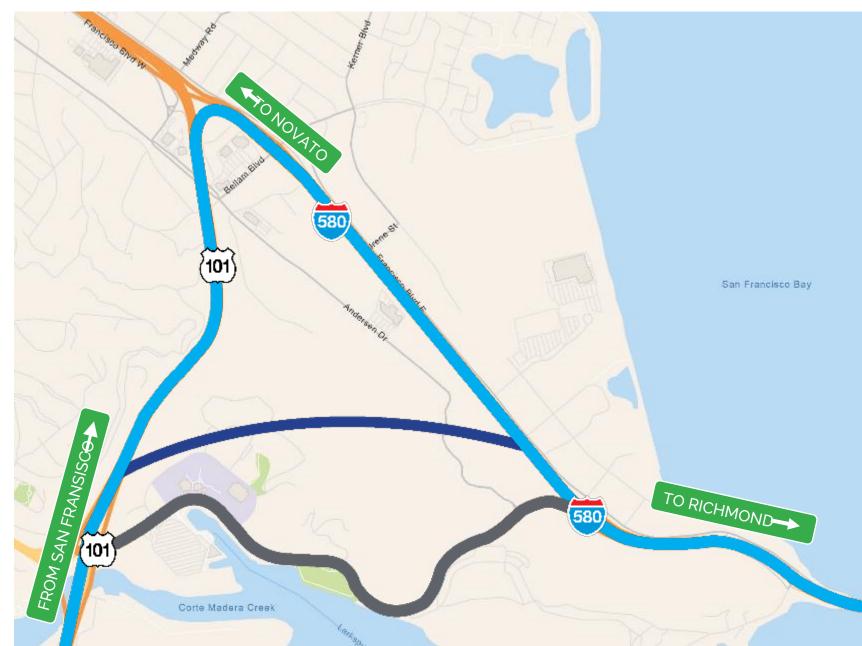
Alternatives Summary Table

Alternatives	Naming	Design Speed (mph)	Preliminary Cost	EB 580 Off-ramp to Bellam Closure?
1A	Hillside A	50	\$292M	
1B	Hillside B	50	\$379M	
2	Simms St	45	\$174M	
3A	Low Speed A	35	\$138M	
3B	Low Speed B	35	\$114M	Yes
Modified 3B	Low Speed B Modified	35	\$139 M +	
4	Swing Out	35	\$225M	Yes
5	Medium Speed	40	\$189M	
6	Andersen Mid-Way	45	\$256M +	

2040 PM Travel Time - Alternative 1A

No Build SFD: 14.9 min Bellam: 15.7 min

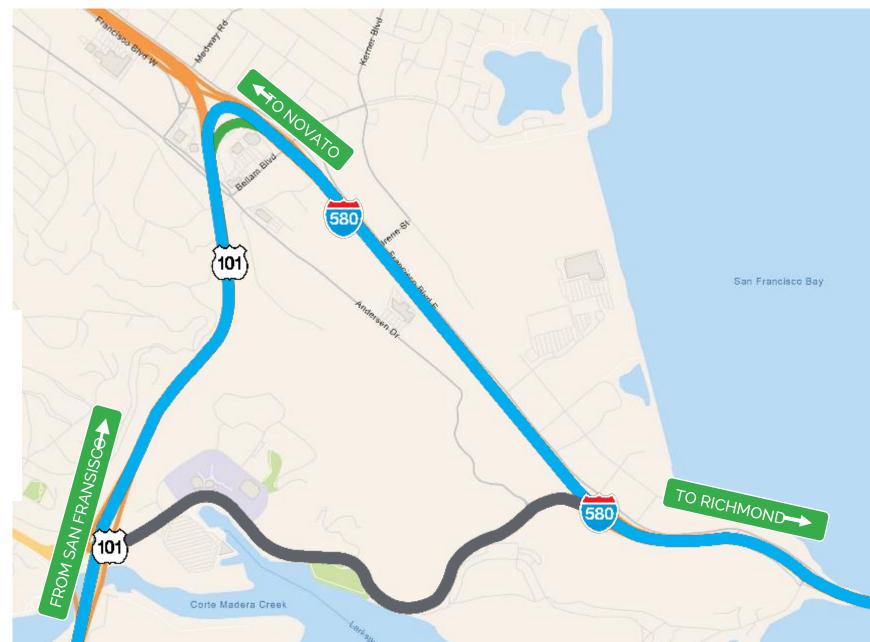
Direct Connector: 5.3 min SFD: 7.2 min Bellam: 12.3 min



2040 PM Travel Time - Alternative 3A

No Build SFD: 14.9 min Bellam: 15.7 min

Direct Connector: 7.6 min SFD: 7.9 min Bellam: 10.6 min



Concepts for WB I-580 to SB US 101



Prior Concepts Considered & Not Carried Forward

Prior Concepts

Widen Sir Francis Drake Blvd in eastbound direction only

Widen Sir Francis Drake Blvd in Both Directions

• Top of the Ridge

Elevated Sir Francis Drake Blvd







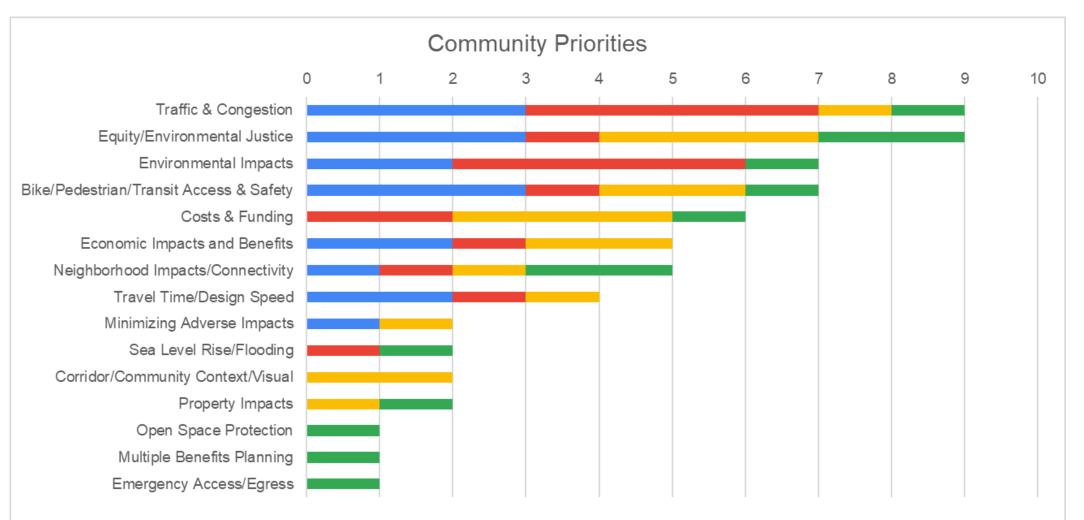


Summary of Issues with Prior Concepts

- Geometric Feasibility Weaving distance, physical constraints
- Environmental Impacts Proximity to Bay, visual Impacts, large amount of earthwork
- Impacts to Existing Infrastructure –Access to Ferry Terminal and pedestrian bridges
- Sir Francis Drake Alternatives Does not separate local and regional traffic, signals continue to be bottleneck
- These same alternatives were dropped during the Greenbrae Project due to similar issues

Stakeholder Working Group and San Rafael Input

Stakeholder Working Group - Priorities

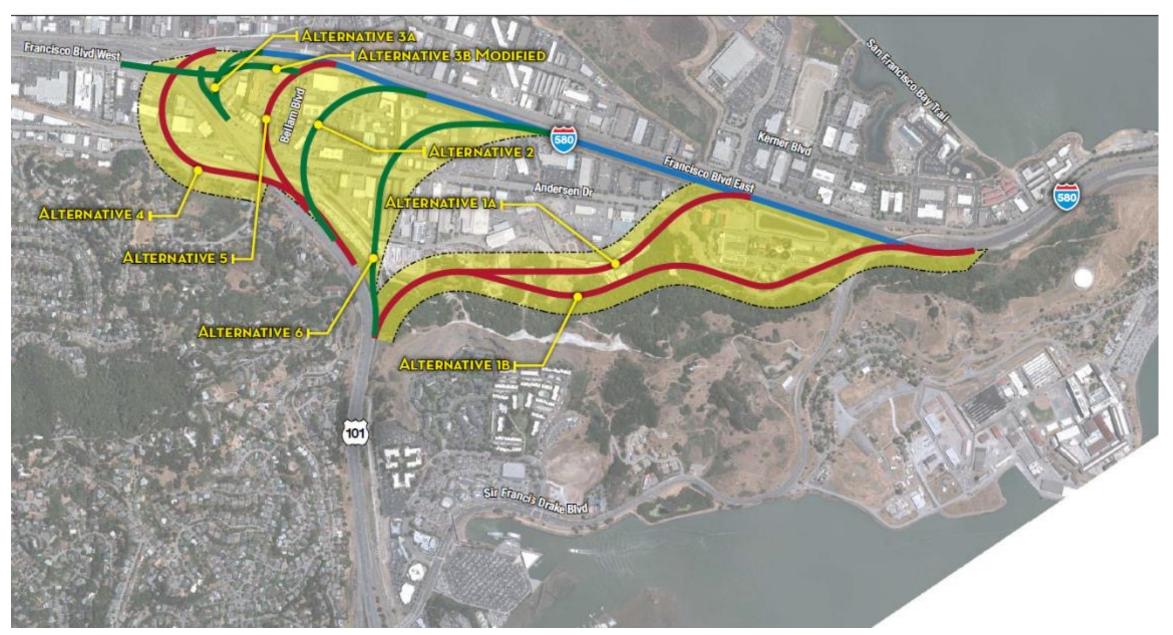


Preliminary Feedback

- Lack of Support for Alts 3B, 4, 5
 - $\,\circ\,$ Do not close Bellam Blvd off-ramp
 - \circ Visual impacts
 - \circ Business impacts
- Very Limited Support for Alts 1A/1B
 - \circ Fastest speed
 - $\,\circ\,$ Furthest from neighborhoods
 - \circ Cost prohibitive
 - Environmental impacts
 - $\,\circ\,$ Impacts to designated open space
 - $\,\circ\,$ Impacts to Marin Sanitary Service facility
 - Future compatible WB-SB connector will increase impacts

- Limited Support for Alts 2, 6
 - Structure height
 - \circ Visual impacts
 - Commercial/Business impacts
- Strong Support for Alts 3A, 3B Modified
 - Smaller footprint
 - $\,\circ\,$ Impacts concentrated in localized area
 - $\,\circ\,$ Lower costs that may be funded

Alternatives Under Consideration



Local Needs

- Regional and Local Traffic backs up onto freeways (NB 101 and EB I-580) from Sir Francis Drake and Bellam off-ramps
- Constrained movements and close signaling at Bellam and Sir Francis Drake under-crossings exacerbate local traffic congestion
- Additional improvements are needed on Bellam to improve pedestrian and bicycle safety and connectivity

Key Comments from San Rafael City Council

- Council has adopted Guiding Principles for consideration during project development
- General agreement to eliminate Alternatives 1A, 1B, 3B, 4 & 5 from further consideration
- Desire to find solutions that reduce congestion on Bellam and accelerate improvements there
- Some members felt that the overall project duration was too long and there is a general desire to expedite the project
- Consider additional improvements to Sir Francis Drake Boulevard

Equity Considerations

Public Engagement Approach



Connect

Meaningfully connect with and listen to community



Collaborate

Equip SWG and community to make meaningful contributions



Sustain

Plan for equitable outcomes and build lasting relationships and partnerships/Tools to be effective

Equity Considerations - Evaluation of Alternatives

Category	Element		
Land Use/Job Impact	Residential/Commercial/Industrial		
	Job Creation/Loss		
Access and Parking	Access to Canal/Travel Time		
	Parking		
	Transit Access		
Safety	Emergency Response		
	Pedestrian and Bike Safety		
	Vehicular Safety		
Environment	Air Quality		
	Visual		
Beautification/Placemaking	Landscape/Beautification		
	Public Art/Placemaking		

Equity Considerations - Community Engagement

Engagement Process

Public

- Partner with community-based organizations and others to develop outreach efforts with the community
- Implement capacity building with community leaders for transportation issues
- Leverage existing community communication platforms to engage the community in project planning, including Bellam Boulevard improvements

Capacity Building Modules (preliminary)

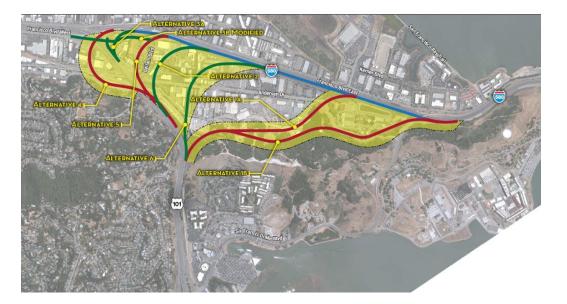
- 1. Introduction to Transportation Planning: Overview, Situating, Community-Building
- 2. Transportation Planning: History, Opportunities & Challenges
- 3. Transportation Planning Practice: Agencies, Policies, Processes & Decision-Making
- 4. Community Oriented Transportation: Best Practices from Comparable Communities
- 5. Infrastructure for Working People: Planning for Bikes, Walkability & Safety

Upcoming Project Activities

Over the next year:

- Narrow the 9 Connector Alternatives to 2-4 for detailed review and analysis
- Finalize Project Initiation Document
- Implement engagement and capacity-building
- Initiate neighborhood and community engagement on design for traffic circulation improvements and bike/pedestrian options at the EB Bellam off-ramp and in the Bellam corridor.
- Initiate environmental scoping and public input on Connector alternatives and Bellam improvements.

Summary/Next Steps



- Consider that input provided from Stakeholder Working Group and the San Rafael City Council recommended dropping from consideration Alternatives 1A, 1B, 3B, 4 and 5
- Additional input, if necessary, will be provided by the 101-580 Ad Hoc Committee at their next meeting
- Consider elimination of project alternatives

Questions?

