



City Council Meeting US 101/Peninsula Avenue Interchange Project

NOVEMBER 7, 2016



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Project Team

- **Gary Heap, Engineering Manager**
- **Tracy Scramaglia, Senior Engineer**
- **Joseph Hurley, Director (SMCTA)**
- **Mike Chan, PM (SMCTA)**
- **Ramesh Sathiamurthy, AECOM**
- **Joy Villafranca, AECOM**
- **Jeff Zimmerman, AECOM**



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Project Partners

- **City of San Mateo**
- **San Mateo County Transportation Authority (SMCTA)**
- **California Department of Transportation (Caltrans)**
- **Federal Highway Administration (FHWA)**
- **City of Burlingame**



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Project Background

2004 - 2007

Initiation of US 101 Poplar/Amphlett Corridor Study
Identified need for safety improvements,
but no support for ramps at Peninsula Avenue

2009 - 2012

City retained traffic consultant
Short term solution: Poplar Corridor Safety Improvement Project
Long term solution: Southbound freeway ramps at Peninsula Avenue

2014 - 2015

SMCTA retained engineering consultant (AECOM)
Caltrans approved the PSR-PDS in May 2015 to advance the project
into the PA&ED Phase



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Poplar Corridor Safety Improvement Project Status Update

Present:

- Final Design Completed
- Begin Construction – August 2016

Future:

- End Construction – January 2017



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Peninsula Avenue Interchange Project

- Identified as a *long* term solution for the interchange ramps
- Project will add ramps for southbound US 101 at Peninsula Ave and close ramps at Poplar Ave

Present:

- Project Approval & Environmental Document (PA&ED) Approval – **July 2018**

Future:

- Begin PS&E Design – **2019**
- Begin Construction – **2022**
- End Construction – **2024**



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Why a Long Term Solution at Peninsula?

Project Purpose & Need:

- Safety: Non-standard ramp geometry at Poplar Avenue
- Provide Standard Interchange Configuration: Consolidate NB & SB ramps at Airport & Peninsula
- Peninsula is designed to handle future traffic from/to the freeway



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Project Goal

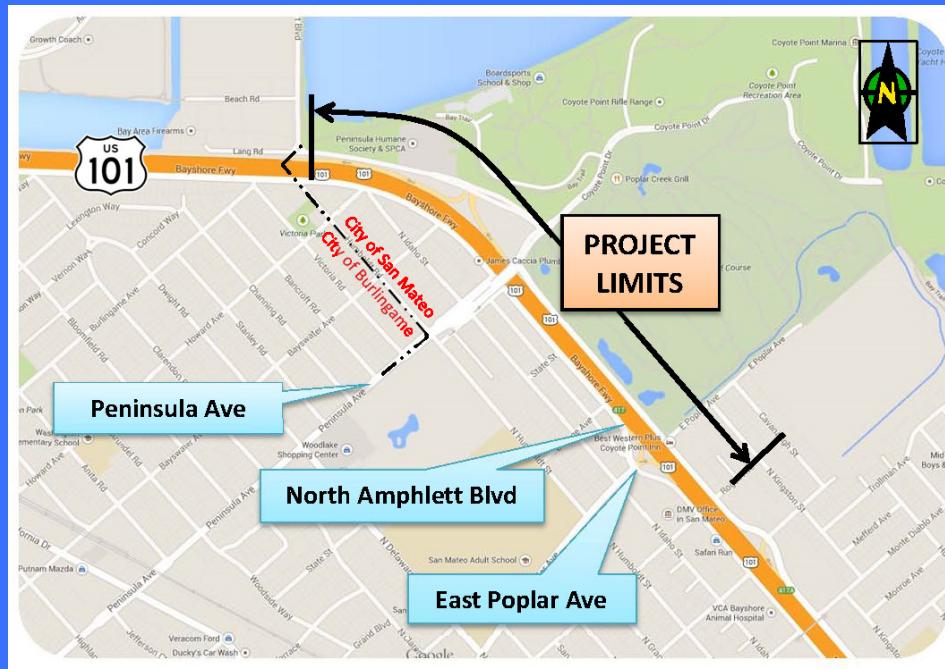
- Improve Safety and Access to, from and on US 101
- Provide Safe and Efficient Pedestrian and Bicycle Circulation within Project Limits
- Accommodate Future Traffic Volumes
- Improve Local Traffic Circulation
- Remove Non-standard Isolated Ramps at Poplar Avenue
- Consolidate SB ramps at Peninsula Avenue IC



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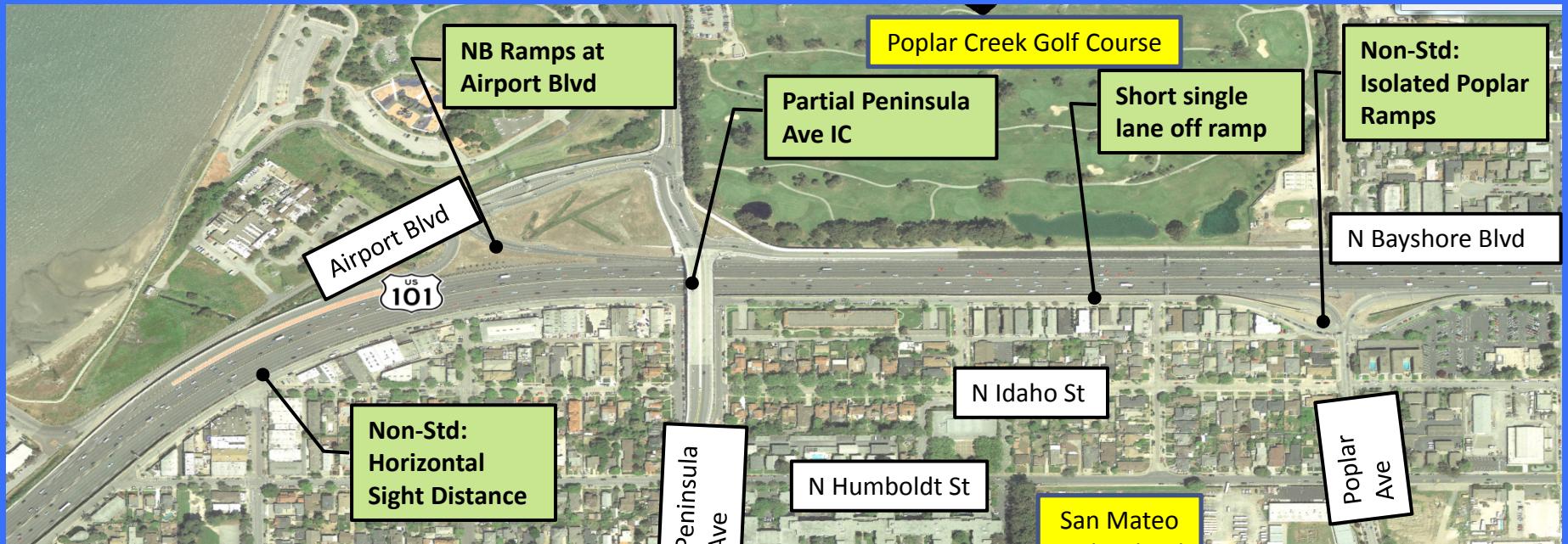
Project Location



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Existing Condition

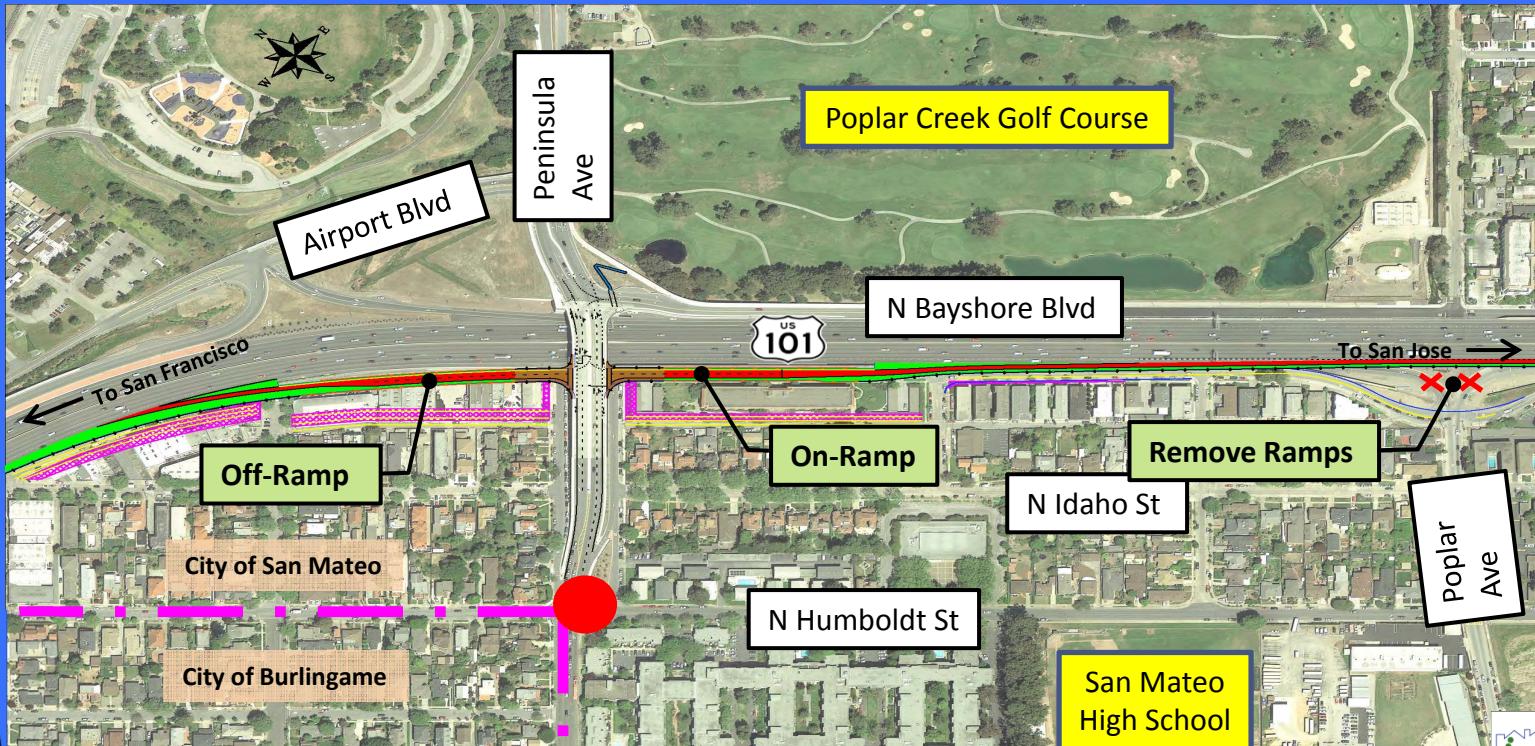


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Peninsula Avenue Interchange

Alternative 1 – Tight Diamond Configuration

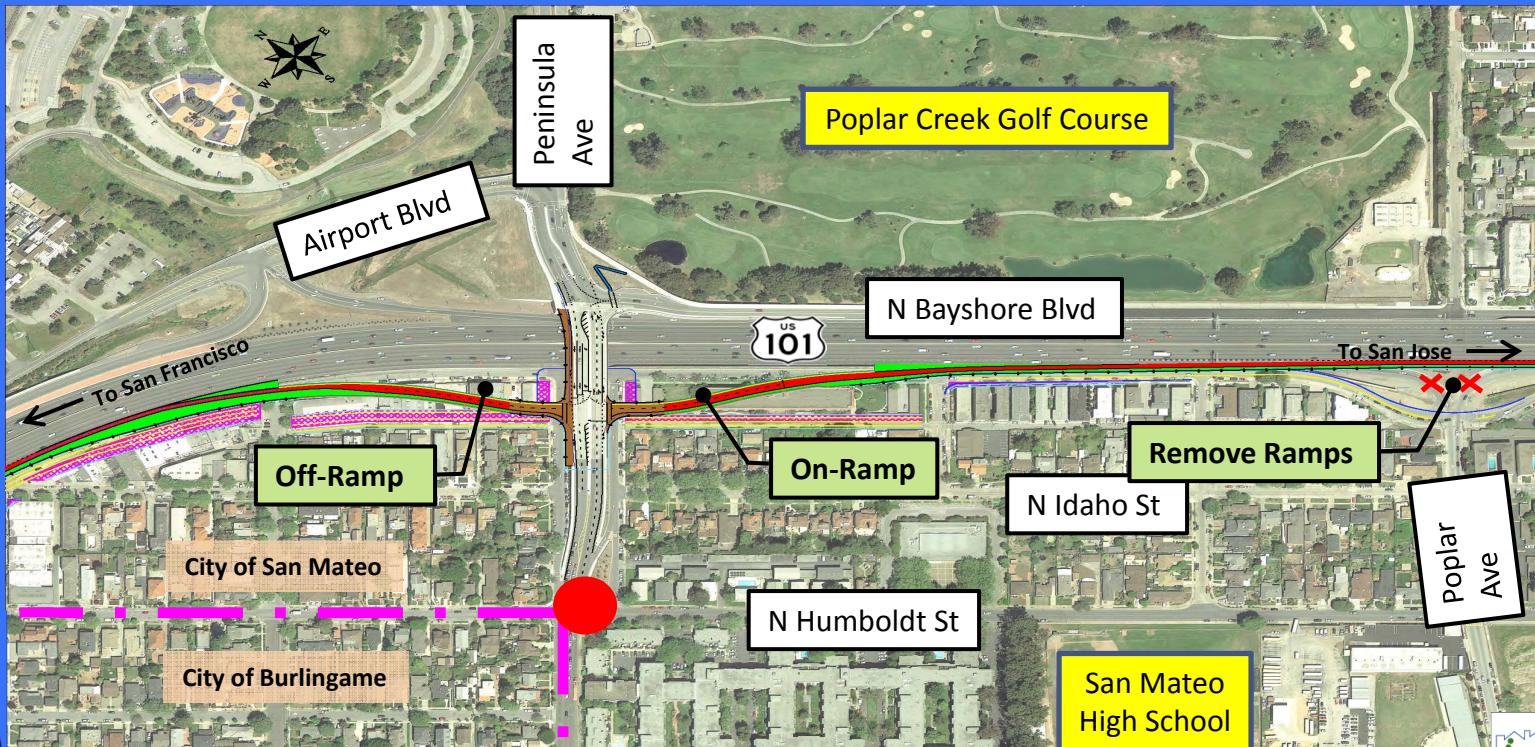


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Peninsula Avenue Interchange

Alternative 2 – Partially Spread Diamond Configuration



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Alternatives Summary

- Alternative 1 has a smaller footprint and potentially, less impacts
- Alternative 2 provides better intersection spacing between the ramps and North Bayshore Blvd
- Preliminary Total Project Cost* for Alt 1: \$61.5M
- Preliminary Total Project Cost* for Alt 2: \$76.4M

* Construction + ROW + Utility + Cost Escalation + Engineering Services + CM Services (2022 Dollars)



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Caltrans Process

- Project Initiation Document (PID) Phase (Completed)
- Project Approval & Environmental Document Phase (PA&ED) (In progress)
- Final Design (PS&E)
- Bid Advertisement
- Begin Construction



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PA&ED Technical Studies

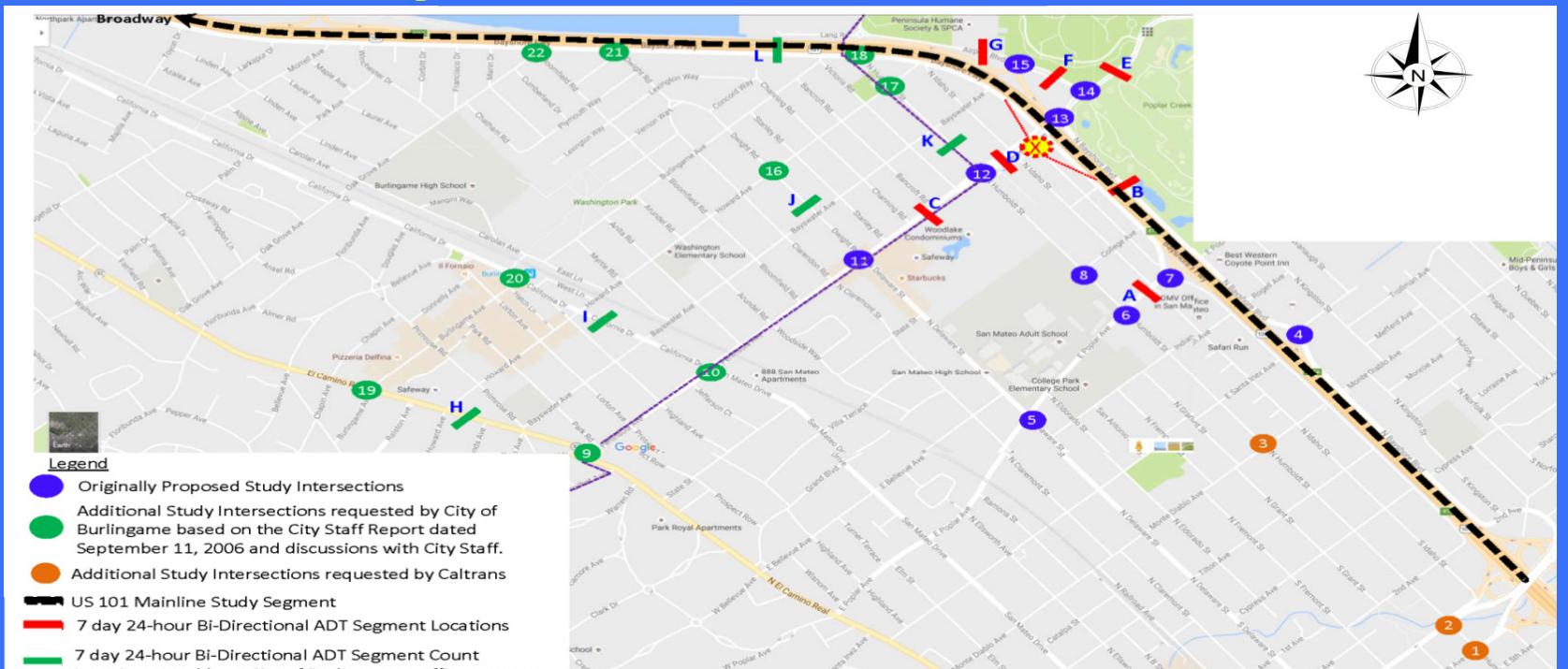
- **Traffic Forecasting and Operational Analysis**
 - Coordination with Caltrans, City of San Mateo and City of Burlingame on Traffic Study
 - Intersections and road segments to study based on City of San Mateo, City of Burlingame & Caltrans request
 - Traffic Forecast Design Year - 2045



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Traffic Study Intersections



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PA&ED Technical Studies

- **Project Report and Preliminary Engineering**
 - Evaluate Design Alternatives
 - Geotechnical (soils, geology, foundations)
 - Traffic Management Plan
 - Storm Water Data Report
 - Drainage
 - Advance Planning Studies for bridge structures and retaining walls
 - Landscape and Aesthetic Concepts
 - Cost Estimates
 - Right of Way and Utilities



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PA&ED Environmental Studies

- Environmental Studies
 - Air Quality
 - Biological Resources
 - Natural Environment
 - Floodplain and Water Quality
 - Noise
 - Cultural Resources (archeological, historical)
 - Paleontology
 - Hazardous Materials
 - Community Impact
 - Visual Impact
 - Environmental Justice
 - Sea Level Rise



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Public Outreach

- **Community Meetings**
 - Three Community Workshop 2010 – 2014
 - PW Commission and City Council Study Sessions
 - One held on June 25, 2015 (in PID Phase)
 - Two Community Meetings planned (in PA&ED Phase) :
 - 1st Meeting - Early 2017
 - 2nd Meeting - Fall 2017
- **FAQ – Published**



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Coordination with Other Projects

- **Poplar Corridor Safety Improvement Project, *City of San Mateo***
- **US 101 HOV / Managed Lane Project, *Caltrans***
- **Burlingame Point Project, *City of Burlingame***
 - Located at 300 Airport Blvd, Burlingame



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Project Schedule

July 2016 –
July 2018
2 years

Environmental
(PA&ED)

Jan 2019 –
June 2022
3.5 years

Design & ROW
(PS&E)

Dec 2022 –
Dec 2024
2 years

Construction



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Next Steps

- Project Approval & Environmental Document
- Obtain Funding for the Final Design (PS&E) Phase
- Begin Final Design and ROW Acquisition
- End Final Design and ROW Certification
- Advertise Project
- Award Contract
- Begin Construction



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Questions and Updates

Gary Heap
Engineering Manager
(650) 522-7307

gheap@cityofsanmateo.org

Tracy Scramaglia
Senior Engineer
(650) 522-7316

tscramaglia@cityofsanmateo.org

www.cityofsanmateo.org/peninsula



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