Community Meeting

US 101/Peninsula Avenue Interchange Project

MAY 17, 2017

Department of Public Works
Stewards of the Infrastructure and Environment
Agenda

Open House 6:30 – 7:00
Presentation 7:00 – 7:30
Q&A 7:30 – 8:00
Resume Open House 8:00 – 8:30
Project Stakeholders

- California Department of Transportation (Caltrans)
- San Mateo County Transportation Authority (SMCTA)
- City of San Mateo
- City of Burlingame
- Local Residents and Business Communities
Goals For Tonight’s Meeting

- Describe the Benefits of the Project
- Explain why the Project is Needed
- Describe Existing Condition and Project Features
- Answer your Questions
Project Background

**2004 - 2007**

Initiation of US 101 Poplar/Amphlett Corridor Study

2004 - 2007

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
Why a Long Term Solution at Peninsula?

Project Need:

- Safety: Nonstandard ramp geometry at Poplar Avenue
- Provide Standard Interchange Configuration: Consolidate NB & SB ramps at Airport & Peninsula
- Peninsula is better suited to handle future traffic from/to the freeway
  - 5-foot shoulders & no street parking
  - No driveways
  - Two lanes in each direction
Benefits of the Project

Enhance Safety

- Remove Traffic from a 2-lane, residential street (Poplar)
- Provide Freeway Access from a 4-lane arterial (Peninsula, east of Humboldt)
- Remove Nonstandard ramps at Poplar
- Provide Safe Route for Peds/Bikes over US 101
Key Design Elements

• Enhance Alternatives from Planning Phase
• Local Street Improvements
• Complete Street Design Features
  – Pedestrian and Bicycle Safe Access
  – Sidewalk Access to meet ADA Compliance
  – High Visibility Crosswalk (Ped & Bike)
  – Bulb Outs & Curb Extension
  – On Street Parking (side street)
Improve Ped / Bike Access

**TYPICAL SECTION - ALTERNATIVES 1 & 2**
(Looking East)

Bike Lane Improvement
Improve Ped / Bike Access

Pedestrian/Traffic Conflict

No Direct Access from Bayshore to Sidewalk next to Golf Course
Accident Data

Data from April 1, 2009 to December 31, 2016

Type of Collision (Total #):
- Hit Object (6)
- Head-On (3)
- Rear-End (9)
- Sideswipe (4)
- Broadside (8)
- Unknown (1)
- Vehicle-Pedestrian (3)

Note:
1. Each Dot Represents One Accident Involving One or More Vehicles or Pedestrian
2. Each Dot Does Not Represent the Precise Location of the Accident.
Benefits of the Project

Enhance Mobility

- Improve Access to/from US 101 (for San Mateo and Burlingame residents)
- Improve Local Street Circulation
- Accommodate Future Traffic Volumes
- Anticipate to Minimize Cut Through Traffic
Humboldt/Poplar to US 101 On-Ramp
(5:30 pm, Wednesday, May 10, 2017)

Length of time to travel 800 feet
(0.15 miles) = 4 mins 10 sec
Current Traffic Condition

Traffic Congestion & Queue Backup

Humboldt St / E Poplar Ave Intersection
8:30 am on Wednesday, April 26, 2017

E Poplar Ave Traffic to US 101
8:30 am on Wednesday, April 26, 2017
From Victoria Park To US 101 SB (to San Jose) Via Poplar Ave (without Project)

5:00 pm on Wednesday May 10, 2017

Total Distance Traveled: 0.8 miles
Total Drive Time: 7.5 minutes
From Victoria Park To US 101 SB (to San Jose) Via Peninsula Ave (with Project)

5:00 pm on Wednesday May 10, 2017

Total Distance Traveled: 0.8 miles
Total Drive Time: 3 minutes (estimated)

Travel Time Savings: 4.5 minutes

In summary, Project benefits the driver and the local community!

- Reduces Travel Time
- Removes Traffic from Residential Streets:
  - Poplar Ave
  - Humboldt St

Lyon Hoag Neighborhood Burlingame
From Broadway On Ramp to Victoria Park (without Project) (Using US 101)

5:15 pm on Wednesday May 10, 2017

Total Distance Traveled: 3.1 miles
Total Drive Time: 6.25 minutes

Lyon Hoag Neighborhood Burlingame

US 101 / Peninsula Avenue Interchange Project
From Broadway On Ramp to Victoria Park
(without Project) (Using Rollins Road)

5:15 pm on Wednesday
May 10, 2017

Total Distance Traveled: 1.6 miles
Total Drive Time: 5.25 minutes

5:15 pm on Wednesday
May 10, 2017

Total Distance Traveled: 1.6 miles
Total Drive Time: 5.25 minutes

Lyon Hoag Neighborhood
Burlingame

US 101 / Peninsula Avenue Interchange Project
In Summary, the Project benefits the driver and the local community!

✔ Reduces Travel Time

✔ Alleviates Congestion at the US 101/Broadway Interchange

✔ Removes Traffic from Residential Streets in both Cities:
  - Rollins Rd
  - Poplar Ave
  - Humboldt St

Total Distance Traveled: 1.9 miles
Total Drive Time: 3-4 minutes (Estimated)

Travel Time Savings: ~ 1-2 minutes

5:15 pm on Wednesday May 10, 2017
From Burlingame Point To US 101 SB (to San Jose) Via Poplar Ave (without Project)

5:30 pm on Wednesday
May 10, 2017

Total Distance Traveled: 1.5 miles
Total Drive Time: 8.75 minutes

US 101 / Peninsula Avenue Interchange Project
From Burlingame Point To US 101 SB (to San Jose) Via Peninsula Ave (with Project)

5:30 pm on Wednesday May 10, 2017

Total Distance Traveled: 1.2 miles
Total Drive Time: 3.5 minutes (estimated)

Burlingame Point (300 Airport Blvd.)

Travel Time & Distance Savings: > 5 minutes & ~ ¼ mile

In Summary, the Project benefits the driver and the local community!

- Reduces Travel Time
- Alleviates Congestion at the US 101/Broadway Interchange
- Removes Traffic from Residential Streets:
  - Poplar Ave
  - Humboldt St

US 101 / Peninsula Avenue Interchange Project
Poplar vs Peninsula

Poplar Ave
- One Lane in Each Direction
- On-Street Parking & Driveways
- No Shoulders

Peninsula Ave
- Two Lanes in Each Direction
- No Parking, No Driveways
- 5-foot Shoulders

Better suited for traffic to/from freeway
Peninsula Avenue Interchange

Alternative 1 – Partial Tight Diamond Configuration

City of Burlingame
City of San Mateo
Poplar Creek Golf Course
Airport Blvd
N Bayshore Blvd
Off-Ramp
Peninsula Ave
On-Ramp
N Humboldt St
Intersection Improvements
N Idaho St
San Mateo High School
Remove Ramps
To San Jose
US 101
To San Francisco
Peninsula Avenue Interchange

Alternative 2 – Partial Spread Diamond Configuration
Caltrans Process

• Project Study Report-Project Development Support (PSR-PDS) *(Completed in 2015)*
• Project Approval & Environmental Document (PA&ED) *(Current)*

• *Final Design (PS&E) and ROW Acquisition**
• *Bid Advertisement & Construction**

* Future phases not currently funded
Other Completed & Ongoing Projects
Traffic Analysis

• Steps to complete the Traffic Report
  A. Collect Intersection Counts for AM & PM Peak Hours
  B. Collect 24/7 traffic volumes for roadway segments
  C. Collect travel times along streets to capture queues
  D. Calibrate software to match field conditions
  E. Complete the existing conditions analysis

• Three conditions analyzed:
  A. Existing (2017) Conditions
  B. Opening Year (2025)
  C. Design Year (2045)
Traffic Analysis (continued)

• Steps to complete the Traffic Report

  E. Traffic Forecasting
  1. Check the existing forecast model (Santa Clara & San Mateo C/CAG) data against existing local street and intersection counts
  2. Forecast open year (2025) and design year (2045)
  3. Prepare traffic forecast memorandum for City/SMCTA/Caltrans Approval

  F. Traffic Analysis for Design Alternatives
  1. Intersection and roadway analysis, queue lengths & LOS
  2. All three alternatives (including No-Build) will be evaluated

  G. Recommend preferred alternative based on traffic operations analysis
Traffic Study Intersections (Original)
Traffic Study Intersections (Original + Added)
Comments or Questions?

For More Information:

Visit Us at: http://www.cityofsanmateo.org/peninsula

Email Us at: heap@cityofsanmateo.org
Meeting Summary

Next Steps:

• Project Team will evaluate the public feedback
• Proceed with Traffic Analysis Work

Next meeting: **Fall 2017**

For More Information:

Visit Us at: [http://www.cityofsanmateo.org/peninsula](http://www.cityofsanmateo.org/peninsula)

Email Us at: [heap@cityofsanmateo.org](mailto:heap@cityofsanmateo.org)
Thank You

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