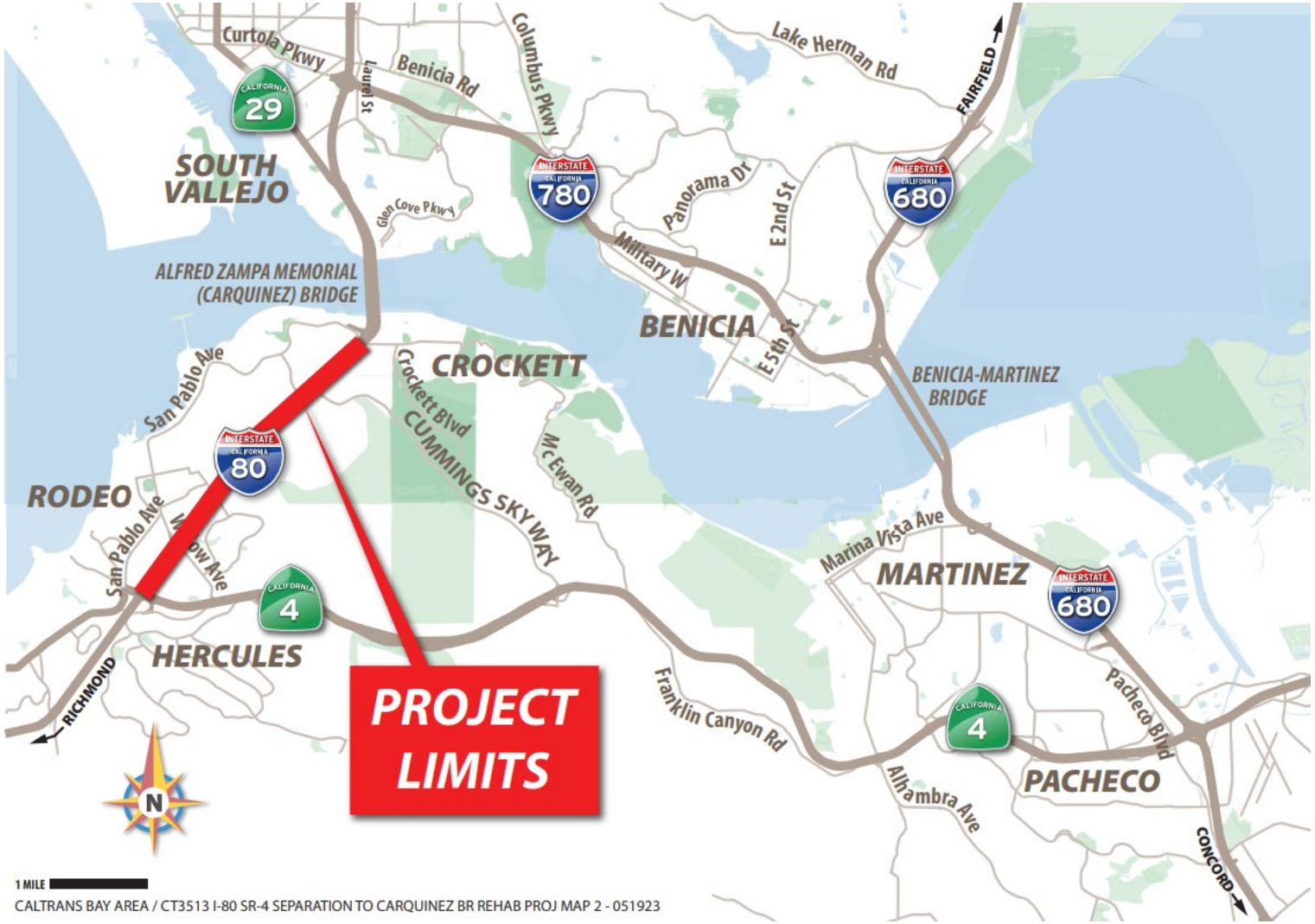
I-80 Pavement Rehabilitation Project

Contra Costa County, Project 3J070

Project Location

This project is in Contra Costa County on Interstate 80 (I-80) from the State Route 4 separation (Post Mile 10.1) in Hercules, to the Carquinez Bridge (Post Mile 13.5), in Crockett.



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Project Need

The existing pavement exhibits signs of distress, resulting in poor ride quality and the potential for pavement failure.

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Project Purpose

To extend the service life of the pavement and enhance highway safety.

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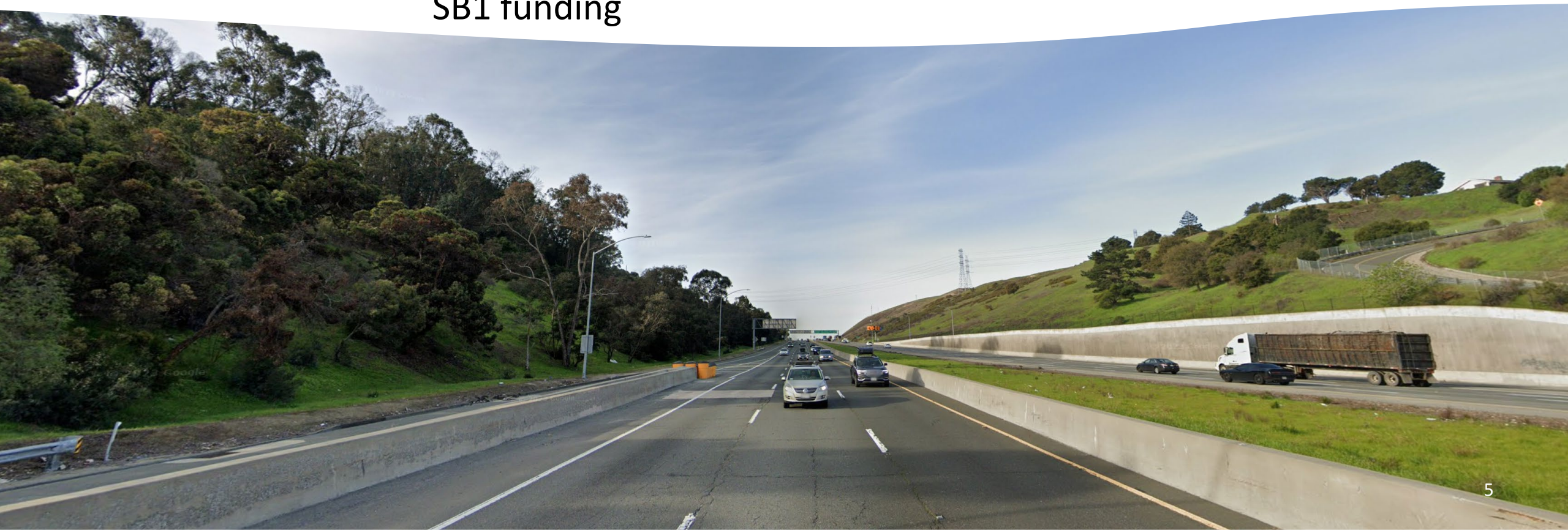
Project Scope

- 26 lane-miles of pavement resurfacing and restoration for the mainline freeway and ramps within the project limits
- Electrical, Drainage, signing work
- Upgrading curb ramps at ramp termini to be ADA compliant
- Construction Capital Cost is $50m
- State Highway Operations & Protection Program (SHOPP) & SB1 funding



Scheduled Closures

I-80 Weekend Closures

- Eastbound (56 hours each weekend)
  - July 21, Friday (9:00pm) – July 24, Monday (5:00am)
  - August 4, Friday (9:00pm) – August 7, Monday (5:00am)
  - August 18, Friday (9:00pm) – August 21, Monday (5:00am)
- Westbound (104 hours) – Labor Day Weekend
  - August 31, Thursday (9:00pm) – September 5, Tuesday (5am)

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Need for Full Closure

Removal of existing paving and installation of Continuously Reinforced Concrete Pavement (**CRCP**) is a labor and equipment intensive operation.

Safety of Caltrans and Contractor staff.

Safety of travelling public.

Performing weeks of overnight work in each weekend.

STEP 1: Demolition

STEP 2: Base preparation

STEP 3: Reinforcing steel

STEP 4: Concrete placement

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Benefits of CRCP

4 weekend closures vs. Over 120 nights of closures

Project should finish in late 2023 instead of late 2024.

Improved ride quality now - CRCP has no joints.

Improved ride quality later – less likely to crack / settle / rock in future due to reinforcing steel.

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Traffic Management Plan

- Regional Changeable Message Sign (CMS) Deployment
- Detours
- Outreach Effort

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Regional CMS Deployment

EB CLOSURE I-80							DEPLOY THIS 2 WEEKS AHEAD		DURING CLOSURE	
PCMS #	County	MAINID	DIR	ROUTE	PM	SIGN LOCATION	1ST FLASH	2ND FLASH	1ST FLASH	2ND FLASH
1	CC	PCM005	E	80	9.788	E80 SOF HWY 4	E80 @ CARQUINEZ BRG CLOSED	MMM_DD TO MMM_DD	E80 @ CARQUINEZ BRG CLOSED	E80 DETOUR USE HWY 4 EAST
2	CC	PCM006	E	80	6.103	E580 BEFORE LONG WHARF ROAD	E80 @ CARQUINEZ BRG CLOSED	MMM_DD TO MMM_DD	E80 @ CARQUINEZ BRG CLOSED	E80 DETOUR USE HWY 24 EAST
3	CC	PCM007	E	80	31.569	E880 BEFORE 980 RAMP	E80 @ CARQUINEZ BRG CLOSED	MMM_DD TO MMM_DD	E80 @ CARQUINEZ BRG CLOSED	E80 DETOUR USE HWY 24 EAST
4	CC	PCM008	E	92	R2.905	E92 BEFORE EDEN LANDING ROAD	E80 @ CARQUINEZ BRG CLOSED	MMM_DD TO MMM_DD	E80 @ CARQUINEZ BRG CLOSED	E80 DETOUR USE N680
5	CC	PCM009	N	13	8.946	N13 BEFORE PINEWOOD RD	E80 @ CARQUINEZ BRG CLOSED	MMM_DD TO MMM_DD	E80 @ CARQUINEZ BRG CLOSED	E80 DETOUR USE HWY 24 EAST
6	ALA	PCM010	N	880	32.7	N880 OVER 5TH ST	E80 @ CARQUINEZ BRG CLOSED	MMM_DD TO MMM_DD	E80 @ CARQUINEZ BRG CLOSED	USE HWY 24 EAST

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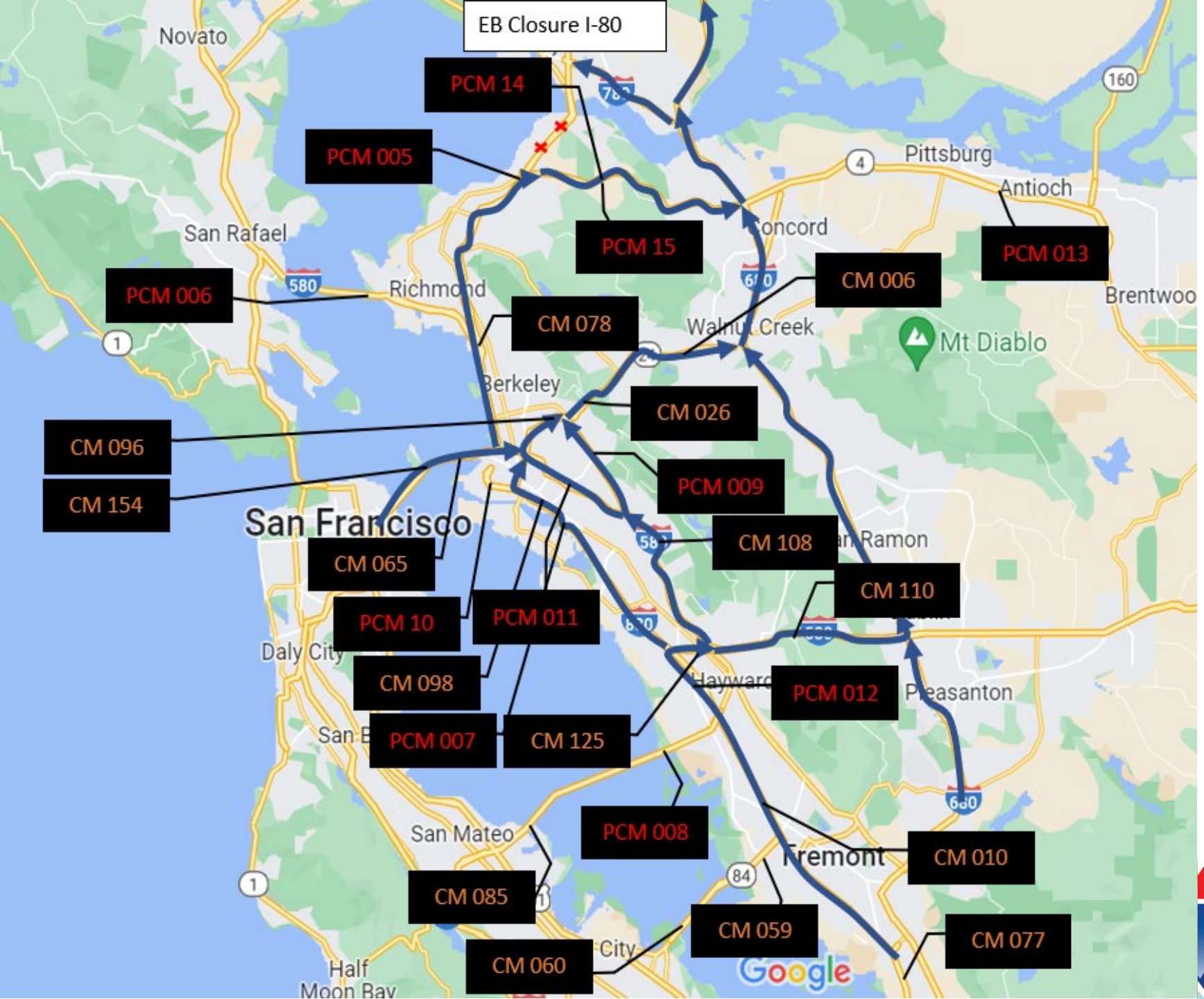

Regional CMS Deployment

Eastbound I-80 Closure

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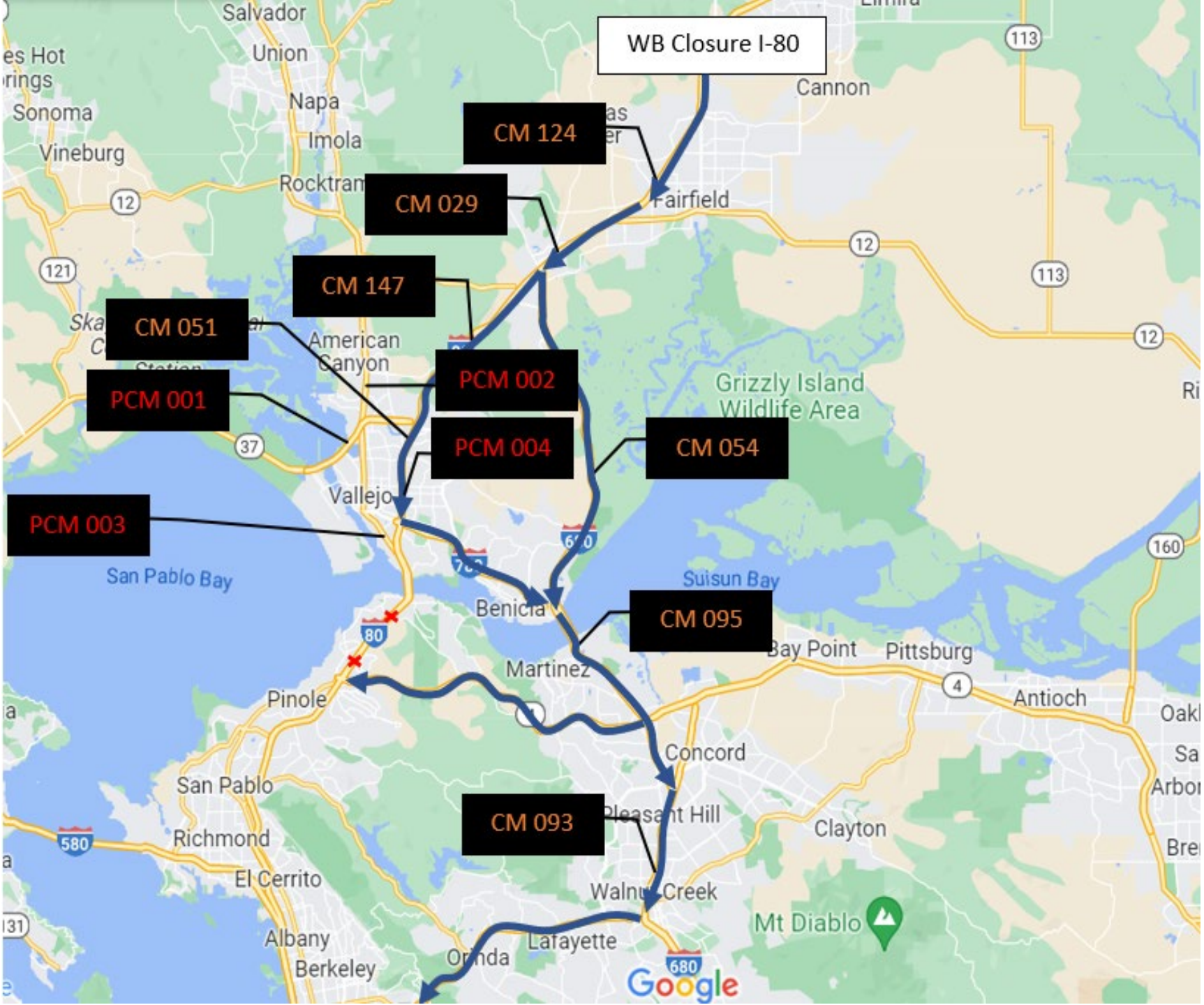

Regional CMS Deployment

Westbound I-80 Closure

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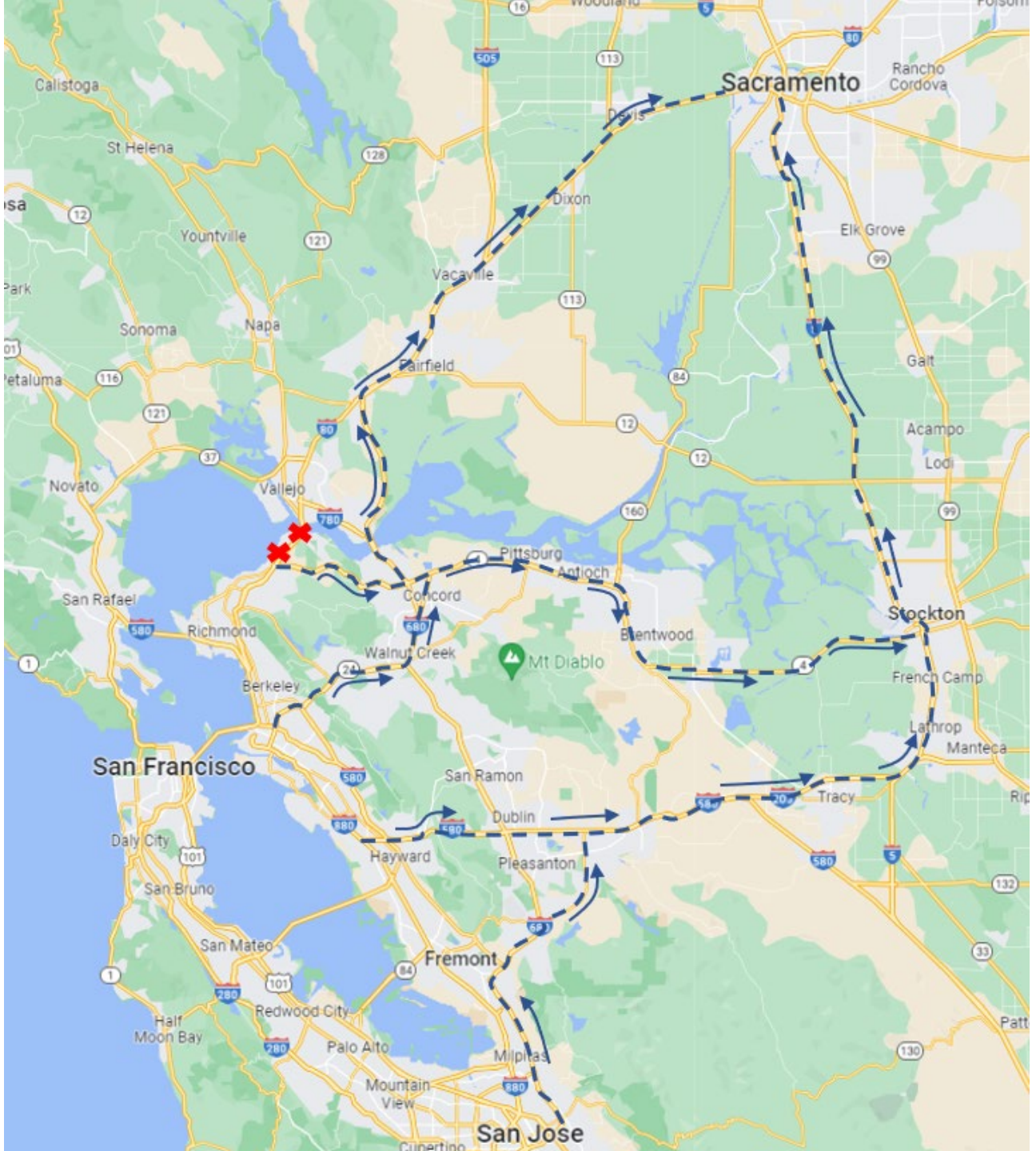
Major Regional Detours for EB 80

Eastbound I-80 Closed at SR4

Oakland / SF Area traffic diverted to EB SR24 to NB I-680 or EB SR4 to I-5

San Jose / Hayward Area traffic diverted to EB 580 to I-5



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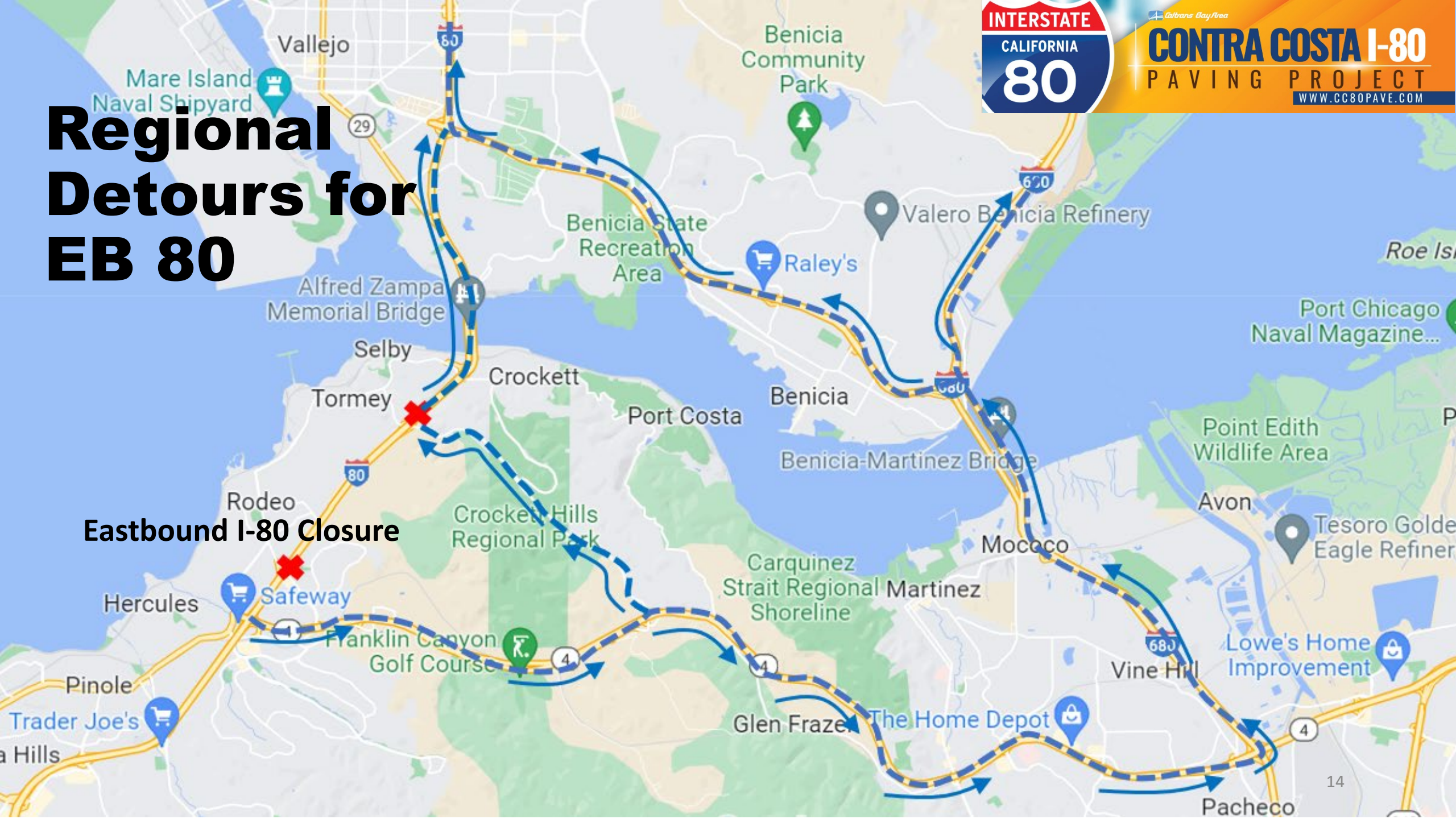
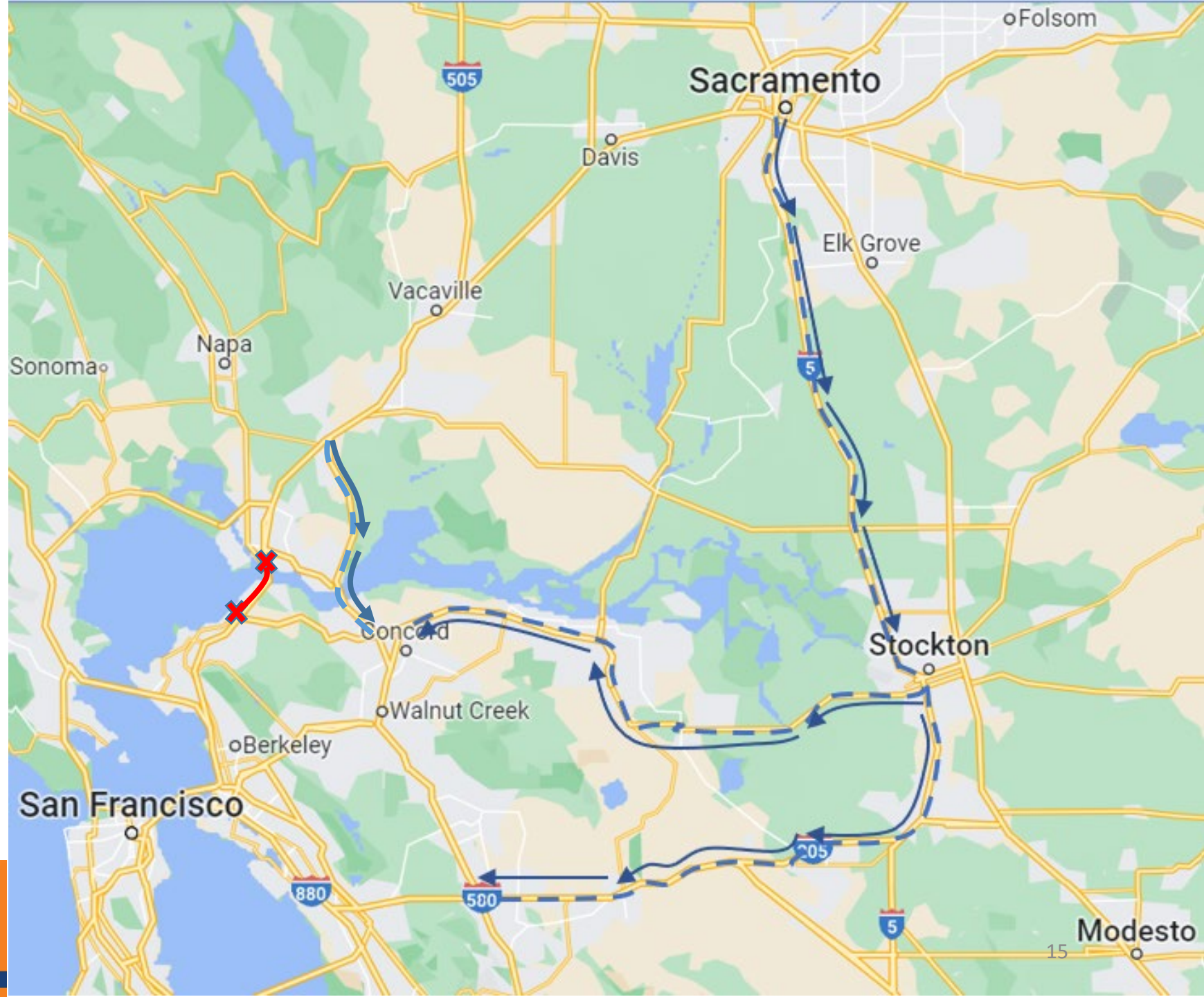


Major Regional Detours for WB 80

Westbound I-80 Closed at I-780

Vacaville / Fairfield Area traffic diverted to SB I-680 from I-80 in Cordelia

Tahoe/Sacramento Area traffic diverted to SB I-5 to WB SR4 or WBI-580



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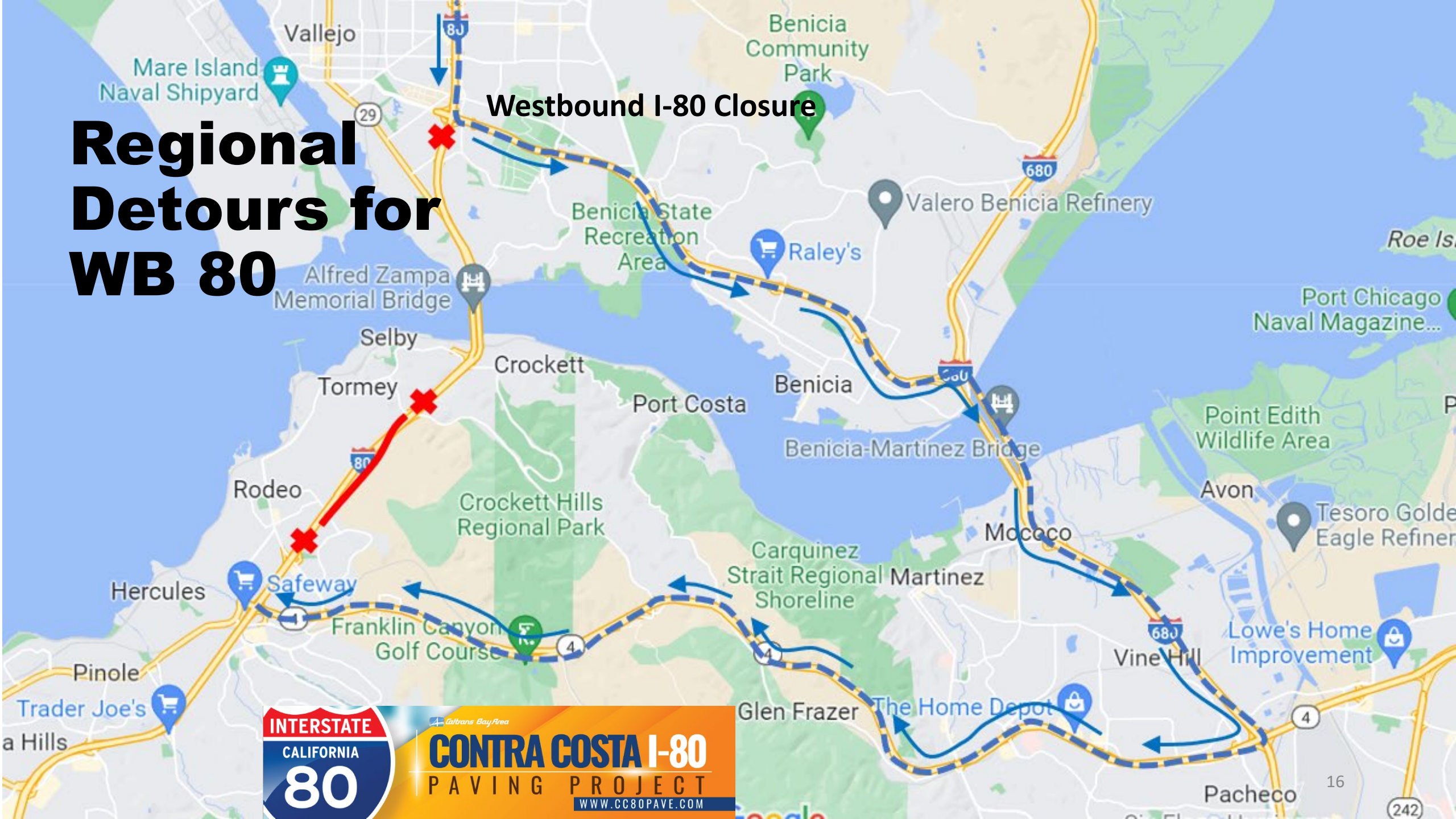
Regional Detours for WB 80



Outreach Effort

- Caltrans will notify public via:
  - City Council Meetings
  - Radio/TV Station News
  - Paid Media Advertisements
  - Caltrans Website
  - Social Media (Caltrans & Cities)
  - Press Release/Traffic Advisories

Outreach Effort Website & Contacts

For Additional project information:

- Caltrans CC 80 Pave Project Website

  www.CC80pave.com

- Contacts:

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Questions & Comments