



# Echo Summit Sidehill Viaduct Replacement Project

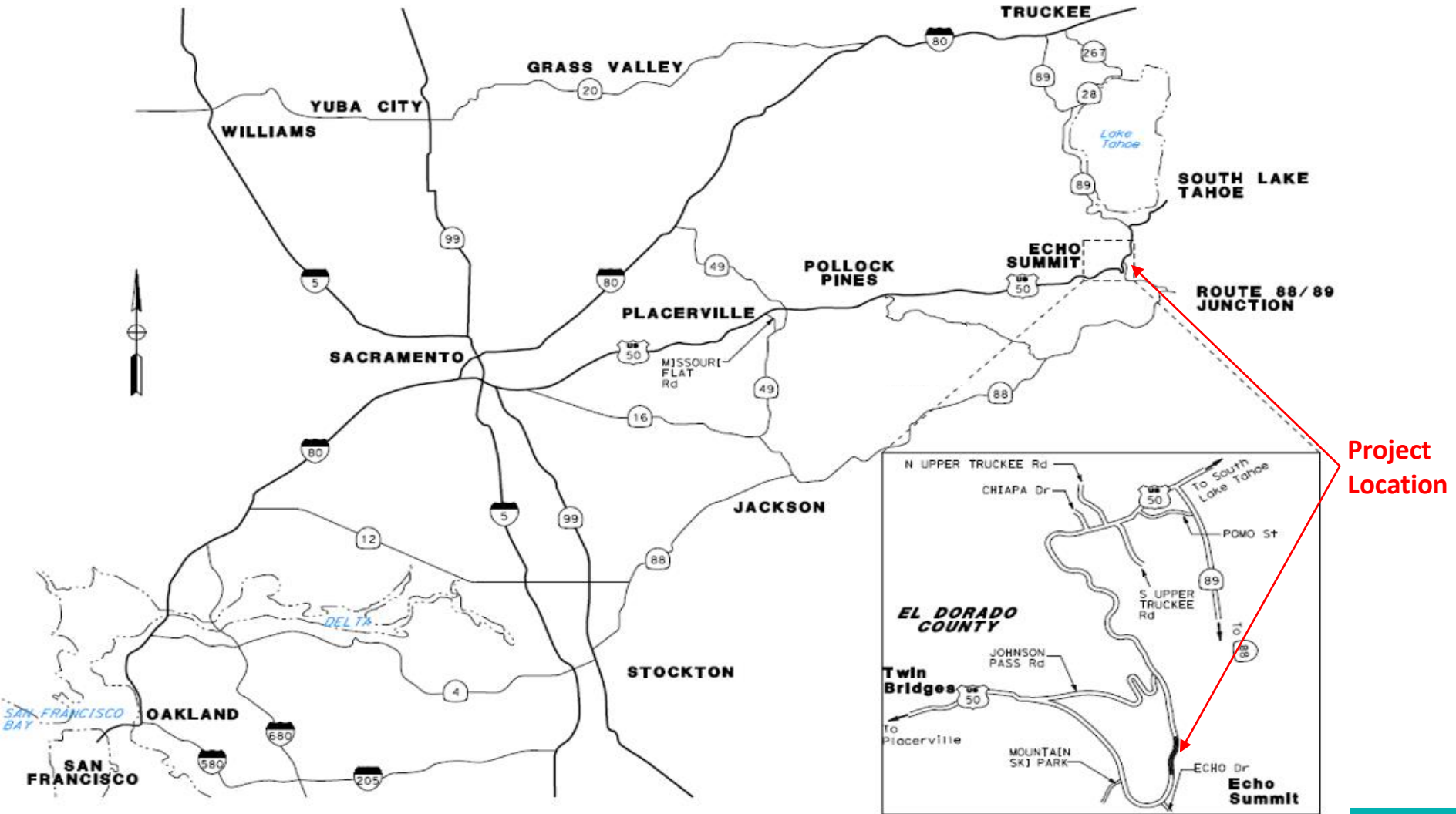
20-0157 A 1 of 21



in El Dorado County



# Project Location Map





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## Existing Viaduct:

- Built 1939 (81 years old)
- 3 spans
- Reinforced Concrete Girders
- Reinforced Concrete Piers
- 24 feet wide with 11 foot travel lanes
- Total length:  
112 feet, 10 inches



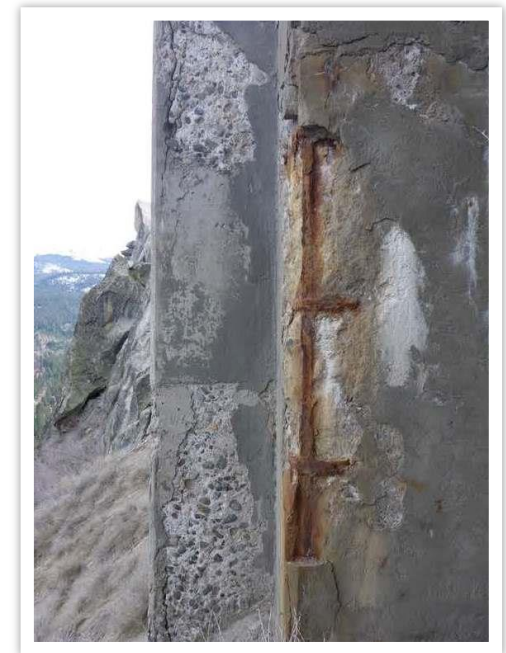


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## Project Purpose and Need:

Replace bridge due to age, weather and use creating severe deck cracking and concrete spalling that has exposed rusted reinforcing steel throughout the bridge.



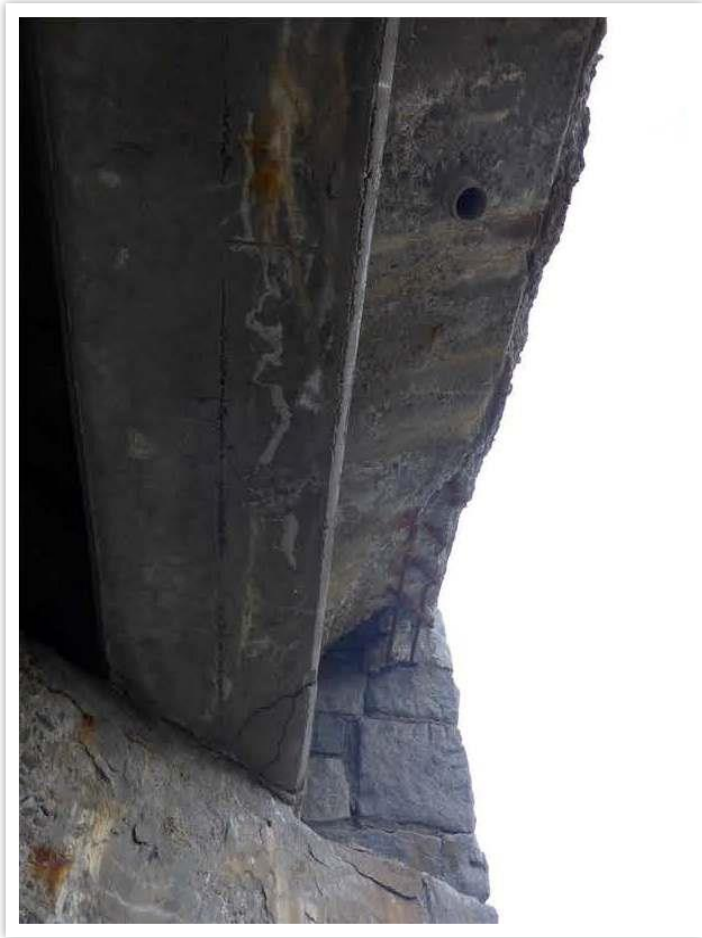
**Concrete spalling and exposed rusted reinforcing steel in piers**



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## Concrete cracking and exposed reinforcing steel in girders and deck





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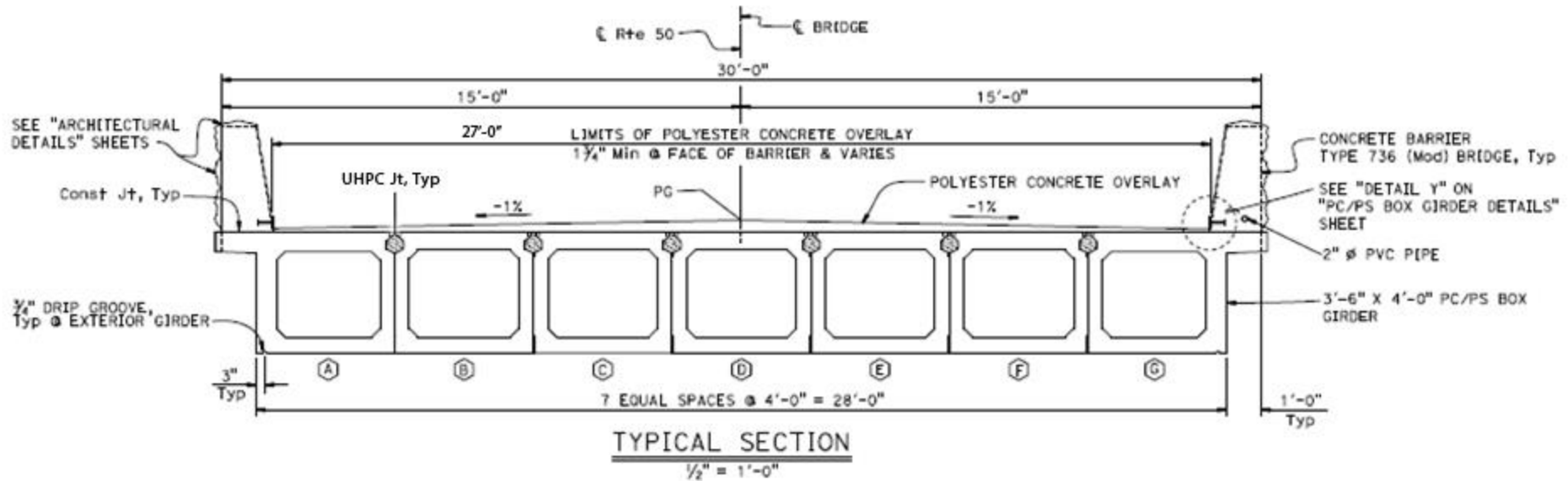


## New Bridge - Unique Features

- Replace 3 span bridge with 96 foot single span bridge
- Uses Accelerated Bridge Construction (ABC) method
  - Precast/Prestressed concrete box girders
- Use of Ultra High Performance Concrete (UHPC) to connect girders
  - First Caltrans project to use UHPC at high elevation (7,240 ft)
- Rock texture aesthetic treatment for walls and barrier rail



# Bridge Superstructure



**Concrete box girder dimensions:** 3'-6" deep  
 4'-0" wide  
 96'-0" long

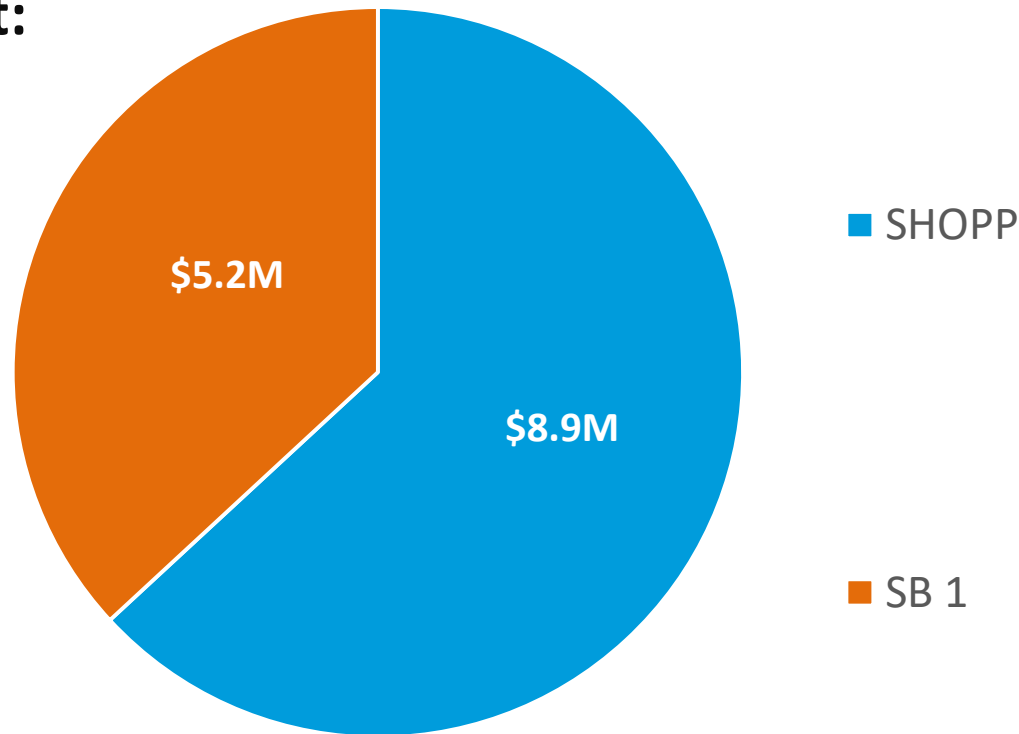


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## Project Funding

**Total Project Cost:  
\$14.1M**



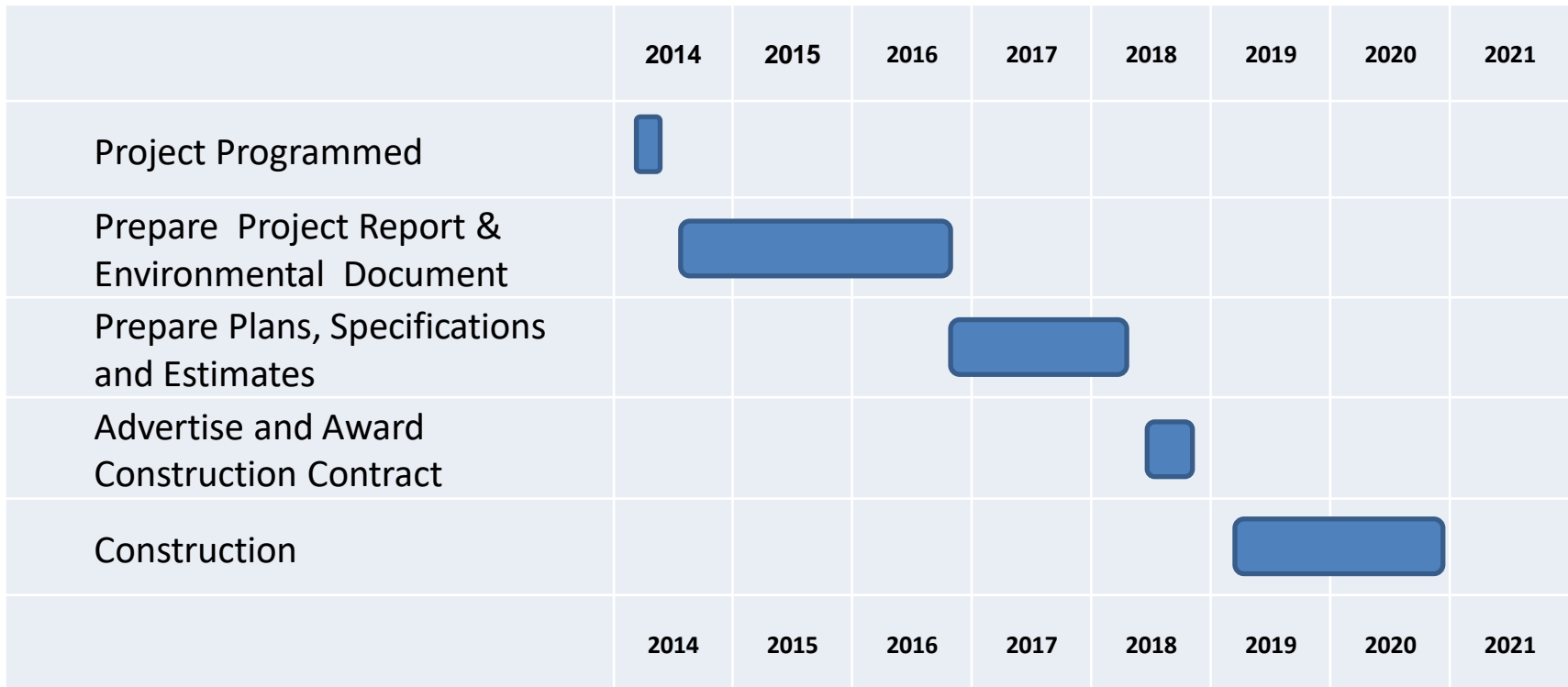




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# Project Delivery Schedule



**Construction Contractor:** Q&D Construction Sparks, NV

**Construction Award:** November 9, 2018  
**Begin Construction:** May 1, 2019  
**Construction Complete Target:** Dec. 30, 2020



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## Construction Work to Date Work began May 2019



Rockfall protection and excavation



Foundation Excavation



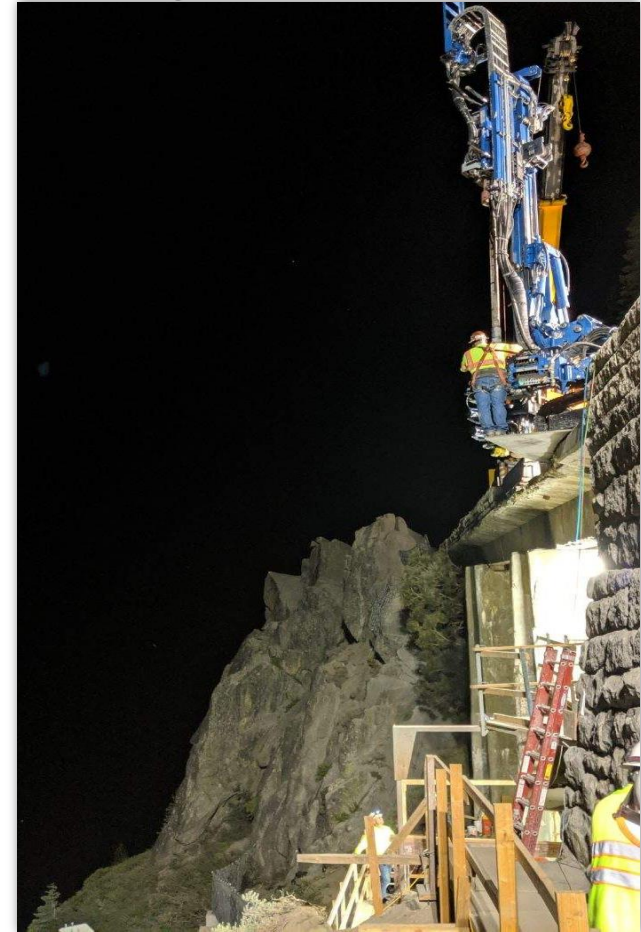
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## Construction Work to Date



Bridge Foundation



Pile Drilling – Night work



## Upcoming Construction Work

- Transport girders to job site
  - Via US Highway 50 from manufacturer facility in Salt Lake City, Utah
  - Store girders at contractor staging area in Meyers
- Ongoing work – One-way traffic control August 28 to September 12
  - No work Labor Day weekend September 4 – September 7
- Demolish existing bridge and place new girders
  - Demolish half bridge under one-way traffic control
  - September 13 to September 18 (24/7 operation)
- Demolish remaining bridge and place new girders
  - Full closure of US Highway 50 for 14 days
  - September 18 to October 2 (24/7 operation)



## Public Outreach

- Paid Advertising (radio, TV, print, Internet) – Start 8/31/20
- Press Releases – 8/18/20
- Social Media (Way2tahoe.com, Twitter, Facebook)
- Public Meetings
  - 4 meetings during Project Development
  - 3 meetings prior to construction start
  - Held in South Lake Tahoe, Meyers, and Placerville
- Outreach to Elected Officials
  - U. S. Senator Dianne Feinstein
  - U. S. Congressman Tom McClintock
  - California State Senator Brian Dahle
  - California State Assemblyman Frank Bigelow
- Weekly updates with Local Agencies leading up to full closure
- News Conferences
- Daily briefings during full closure



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# Detour Route



## Detour vs. US 50:

One-way:  
 Add 35 miles  
 Add 45 minutes

Round trip:  
 Add 70 miles  
 Add 1.5 hours



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# Traffic Management



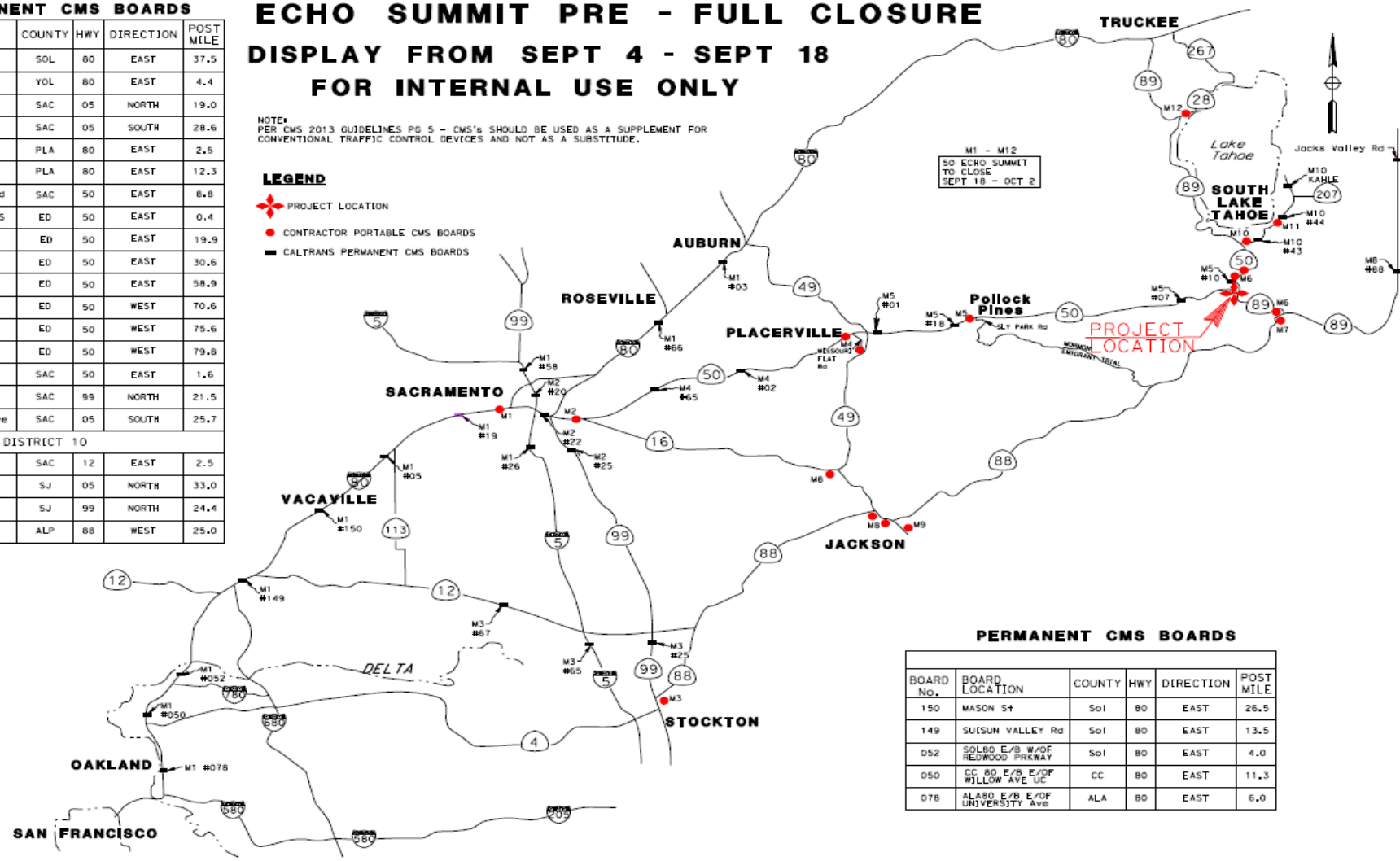
## ECHO SUMMIT PRE - FULL CLOSURE DISPLAY FROM SEPT 4 - SEPT 18 FOR INTERNAL USE ONLY

NOTE:  
PER CMS 2013 GUIDELINES PG 5 - CMS's SHOULD BE USED AS A SUPPLEMENT FOR  
CONVENTIONAL TRAFFIC CONTROL DEVICES AND NOT AS A SUBSTITUTE.

### LEGEND

- PROJECT LOCATION
- CONTRACTOR PORTABLE CMS BOARDS
- CALTRANS PERMANENT CMS BOARDS

PERMANENT CMS BOARDS					
BOARD No.	BOARD LOCATION	COUNTY	HWY	DIRECTION	POST MILE
05	DIXON	SOL	80	EAST	37.5
19	CHILES Rd	YOL	80	EAST	4.4
26	35th Ave	SAC	05	NORTH	19.0
58	ARENA Blvd	SAC	05	SOUTH	28.6
66	LEAD HILL Dr	PLA	80	EAST	2.5
03	GILARDI Rd	PLA	80	EAST	12.3
65	MATHER FIELD Rd	SAC	50	EAST	8.8
02	EL DORADO HILLS	ED	50	EAST	0.4
01	PLACERVILLE	ED	50	EAST	19.9
18	SLY PARK	ED	50	EAST	30.6
07	TWIN BRIDGES	ED	50	EAST	58.9
10	MEYERS	ED	50	WEST	70.6
43	50/89 Jct	ED	50	WEST	75.6
44	MIDWAY Rd	ED	50	WEST	79.8
22	18th ST	SAC	50	EAST	1.6
25	M.L.K	SAC	99	NORTH	21.5
20	W. EL CAMINO Ave	SAC	05	SOUTH	25.7
DISTRICT 10					
67	RJO VISTA	SAC	12	EAST	2.5
65	8 MILE	SJ	05	NORTH	33.0
25	MORADA S/O 8 MILE Rd	SJ	99	NORTH	24.4
88	STATELINE	ALP	88	WEST	25.0



PERMANENT CMS BOARDS					
BOARD No.	BOARD LOCATION	COUNTY	HWY	DIRECTION	POST MILE
150	MASON St	Sol	80	EAST	26.5
149	SUNSHINE VALLEY Rd	Sol	80	EAST	13.5
052	SOL80 E/B W/OFF REDWOOD PKWAY	Sol	80	EAST	4.0
050	CC 80 E/B E/OFF WILLOW AVE UC	CC	80	EAST	11.3
078	AL80 E/B E/OFF UNIVERSITY Ave	ALA	80	EAST	6.0





in El Dorado County

# Traffic Management



## PERMANENT CMS BOARDS

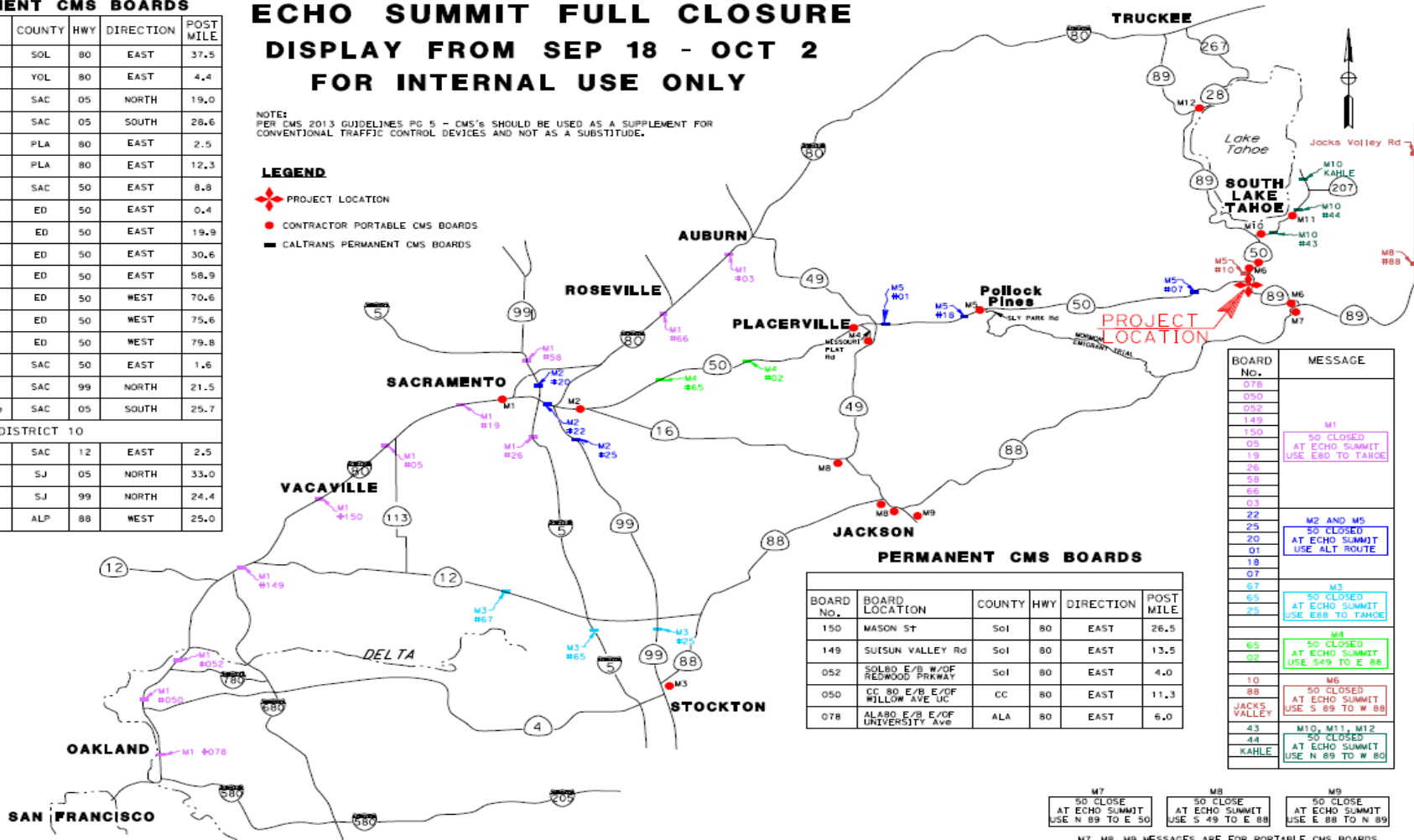
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07	TWIN BRIDGES	ED	50	EAST	58.9
10	MEYERS	ED	50	WEST	70.6
43	50/89 Jct	ED	50	WEST	75.6
44	MIDWAY Rd	ED	50	WEST	79.8
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88	STATELINE	ALP	88	WEST	25.0

## ECHO SUMMIT FULL CLOSURE DISPLAY FROM SEP 18 - OCT 2 FOR INTERNAL USE ONLY

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052	SOLBO E/B W/OF REDWOOD PRKWAY	Sol	80	EAST	4.0
050	CC 80 E/B E/OF WILLOW AVE JCT	CC	80	EAST	11.3
078	ALABO E/B E/OF UNIVERSITY Ave	ALA	80	EAST	6.0

BOARD No.	MESSAGE
078	
050	
052	
149	
150	
05	M1
19	50 CLOSED AT ECHO SUMMIT USE E80 TO TRUCKEE
26	
58	
56	
03	
22	
25	M2 AND M5
20	50 CLOSED AT ECHO SUMMIT USE ALT ROUTE
01	
18	
07	
57	
65	M3
25	50 CLOSED AT ECHO SUMMIT USE E88 TO TAHOE
65	
02	M4
65	50 CLOSED AT ECHO SUMMIT USE S49 TO E 88
10	
88	M6
JACKS VALLEY	50 CLOSED AT ECHO SUMMIT USE S 89 TO W 88
43	
44	M10, M11, M12
KAHLE	50 CLOSED AT ECHO SUMMIT USE N 89 TO W 80

M7 50 CLOSE AT ECHO SUMMIT USE N 89 TO E 50	M8 50 CLOSE AT ECHO SUMMIT USE S 49 TO E 88	M9 50 CLOSE AT ECHO SUMMIT USE E 88 TO N 89
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M7, M8, M9 MESSAGES ARE FOR PORTABLE CMS BOARDS







*in El Dorado County*



## Incident Management

- Transportation Management Center (TMC)
- Construction Zone Enhanced Enforcement Program (COZEEP)
- CT Maintenance
- CHP
- El Dorado County Sheriff
- CalFire
- Lake Valley Fire Protection District
- Barton Hospital, South Lake Tahoe



in El Dorado County



## Before Construction





in El Dorado County



## After Construction (simulated)





in El Dorado County



## District 3 Contacts:

- **Steve Nelson**, Public Information Office
  - Email: [steve.nelson@dot.ca.gov](mailto:steve.nelson@dot.ca.gov)
  - Phone: (530) 741-4566
- **Clark Peri**, Project Manager
  - Email: [clark.peri@dot.ca.gov](mailto:clark.peri@dot.ca.gov)
  - Phone: (916) 825-8168

**Project Website:** <https://www.way2tahoe.com>

**Twitter:** @way2Tahoe

**Facebook:** [Facebook/Way2Tahoe](https://www.facebook.com/Way2Tahoe)

# Questions?

