



# Preliminary Stakeholder Discussion

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SEPTEMBER 23, 2021

# Introductions



**HALF MOON BAY COASTSIDE**  
CHAMBER OF COMMERCE & VISITORS' BUREAU

*It's your connection*



# Presentation Outline and Meeting Objectives

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## Presentation Outline

- Funding
- SR 1 Multi-Asset Improvement Project
  - Project Location
  - Purpose and Need
  - Scope of Proposed Work
  - Project Elements
  - Schedule
- SR 1 Safety Barrier Project
  - Project Location
  - Scope of Proposed work
  - Project Elements
  - Schedule
- Discussion/Q&A

## Meeting Objectives

- Stakeholder awareness
- Early outreach prior to draft environmental document

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# Project Funding

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- **SHOPP:** State Highway Operation and Protection Program
  - SHOPP is the State Highway System’s “fix-it-first” program that funds the repair and preservation, emergency repairs, safety improvements, and some highway operational improvements, which do not add a new traffic lane to the system
  - SHOPP primarily includes projects intended to rehabilitate the roadway or roadside and to improve traffic safety or operations
  - Long term planning 10-year SHOPP
  - Funded projects are adopted and approved by CTC on even years (currently 2020 SHOPP)



# Project Funding Cont.

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## ➤ Projects Programmed in SHOPP:

- Mandated (State & Federal laws)
- Major Damage Restoration
- Collision Reduction (*SR-1 Safety Barrier Project*)
- Bridge Preservation
- Roadway Preservation (*SR-1 Multi-Asset Roadway Rehabilitation Project*)
- Roadside Preservation
- Mobility Improvements
- Facility Improvements

# Project Funding Cont.



## ➤ Collision Reduction Goals (*SR-1 Safety Barrier Project*)

- Reduce the number of Fatal and Injury Collisions
- Reduce workers fatalities to zero

## ➤ Roadway Preservation (*SR-1 Multi-Asset Roadway Rehabilitation Project*)

- Maintain pavement rehabilitation at a steadily managed state
- Reduce pavement rehabilitation needs



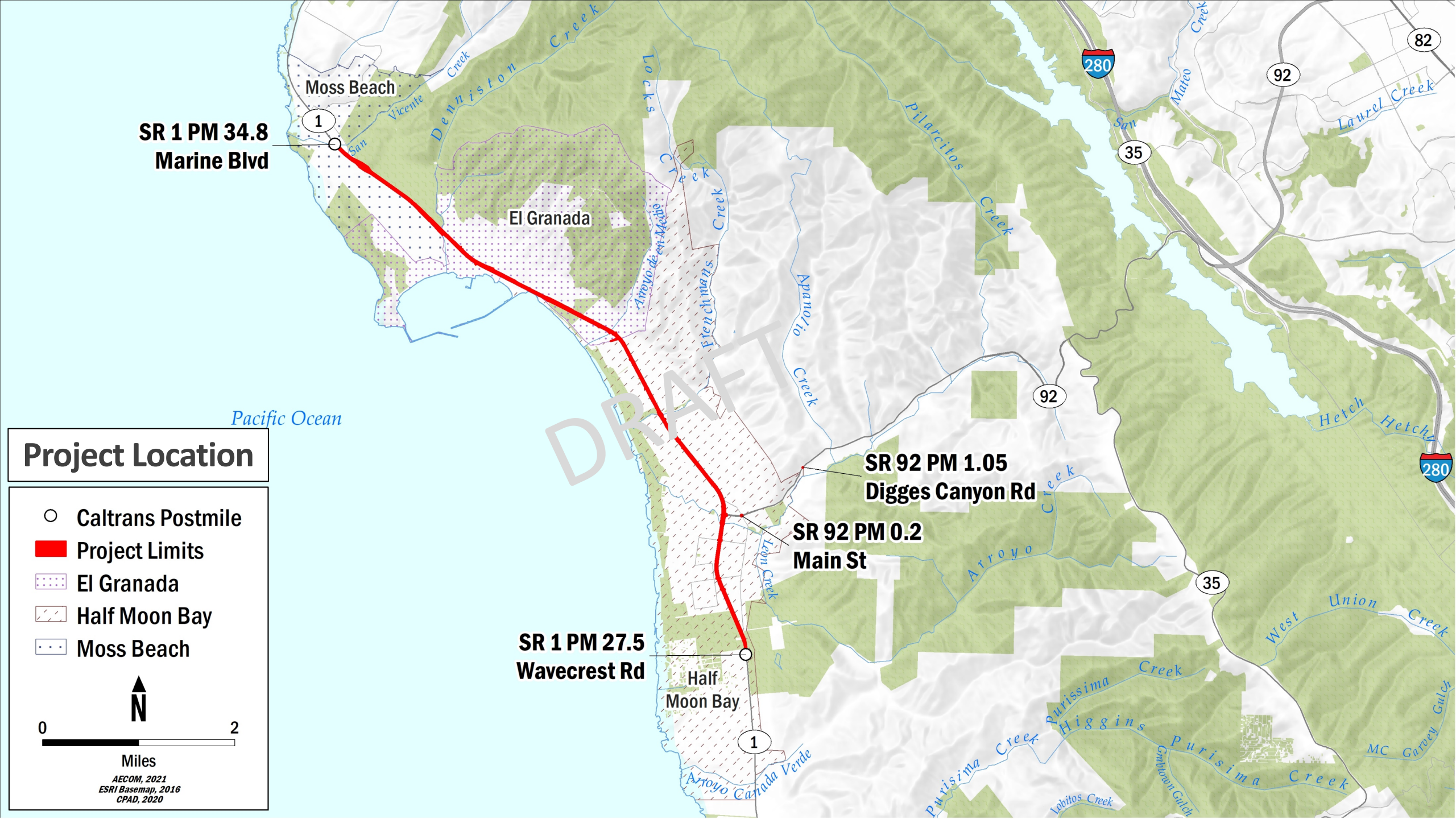
# State Route 1 Multi-Asset Roadway Rehabilitation Project

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PROJECT MANAGER: KELLY MA

04-0Q130





**SR 1 PM 34.8  
Marine Blvd**

Moss Beach

El Granada

Pacific Ocean

### Project Location

- Caltrans Postmile
- Project Limits
- ▨ El Granada
- ▨ Half Moon Bay
- ▨ Moss Beach



0  2

Miles

AECOM, 2021  
ESRI Basemap, 2016  
CPAD, 2020

**SR 92 PM 1.05  
Digges Canyon Rd**

**SR 92 PM 0.2  
Main St**

**SR 1 PM 27.5  
Wavecrest Rd**

Half  
Moon Bay

1

280

35

92

82

92

35

280



# Project Purpose and Need

- Project Purpose:
  - Restore the facility to a state of good repair
  - Minimize future maintenance expenditures
  - Upgrade existing traffic system infrastructures
- Project Need:
  - Poor ride quality – will continue deteriorating if left untreated
  - Highway appurtenances and facilities are worn out or functionally obsolete
  - Current traffic systems are approaching their end of life and need to be upgraded



*Existing pavement quality north of Miramar*

Source: Google images

# Project Scope

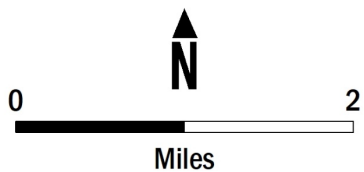
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- Rehabilitate roadway
- Upgrade guardrail
- Rehabilitate drainage systems
- Bus stop improvements
- Upgrade facilities to Americans with Disabilities Act (ADA) standards
- Incorporate bicycle improvements
- Meet Caltrans Complete Streets guidance
- Upgrade traffic management system (TMS) elements



# Roadway Rehabilitation and Guard Rail Replacement

- ⊗ Guard Rail Replacement Location
- Caltrans Postmile
- █ Pavement Rehabilitation Limits
- ▤ El Granada
- ▨ Half Moon Bay
- ▧ Moss Beach

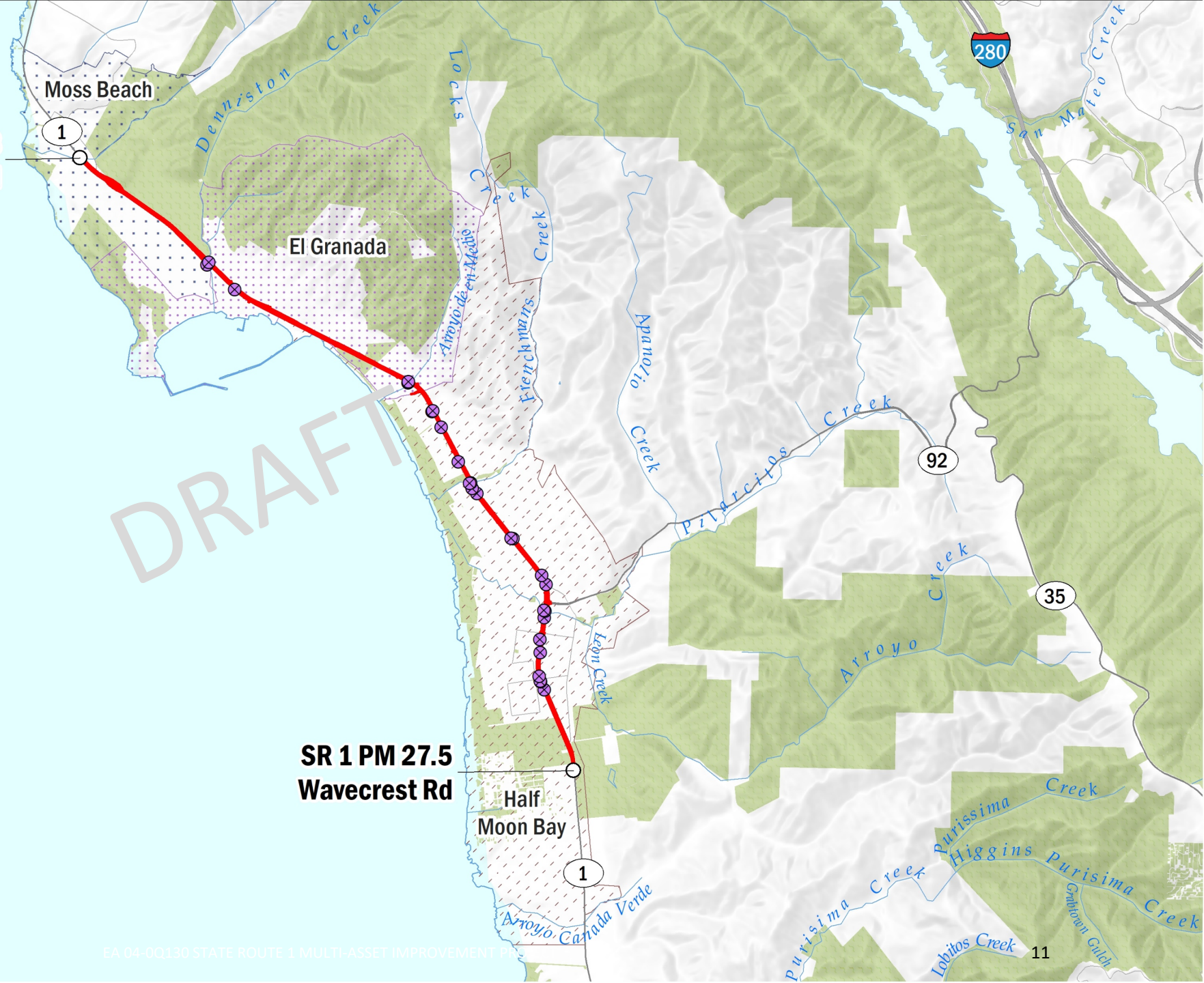


AECOM, 2021  
ESRI Base Map, 2018  
CPAD, 2020

SR 1 PM 34.8  
Marine Blvd

SR 1 PM 27.5  
Wavcrest Rd

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# Guard Rail Upgrades and Drainage System Rehabilitation



Midwest Guardrail System



Drainage Culvert



Drainage Dike



# Bus Stop Improvements



Current sidewalk gap at Terrace Avenue bus stop



# Bike, Ped, and Complete Street Improvements, and ADA Upgrades



Class II Bike Lane



Class II Bike Lane (Buffered)



Striped Crosswalks

Photo Credit: [Sergio Ruiz](#)



ADA-Compliant Curb Ramp



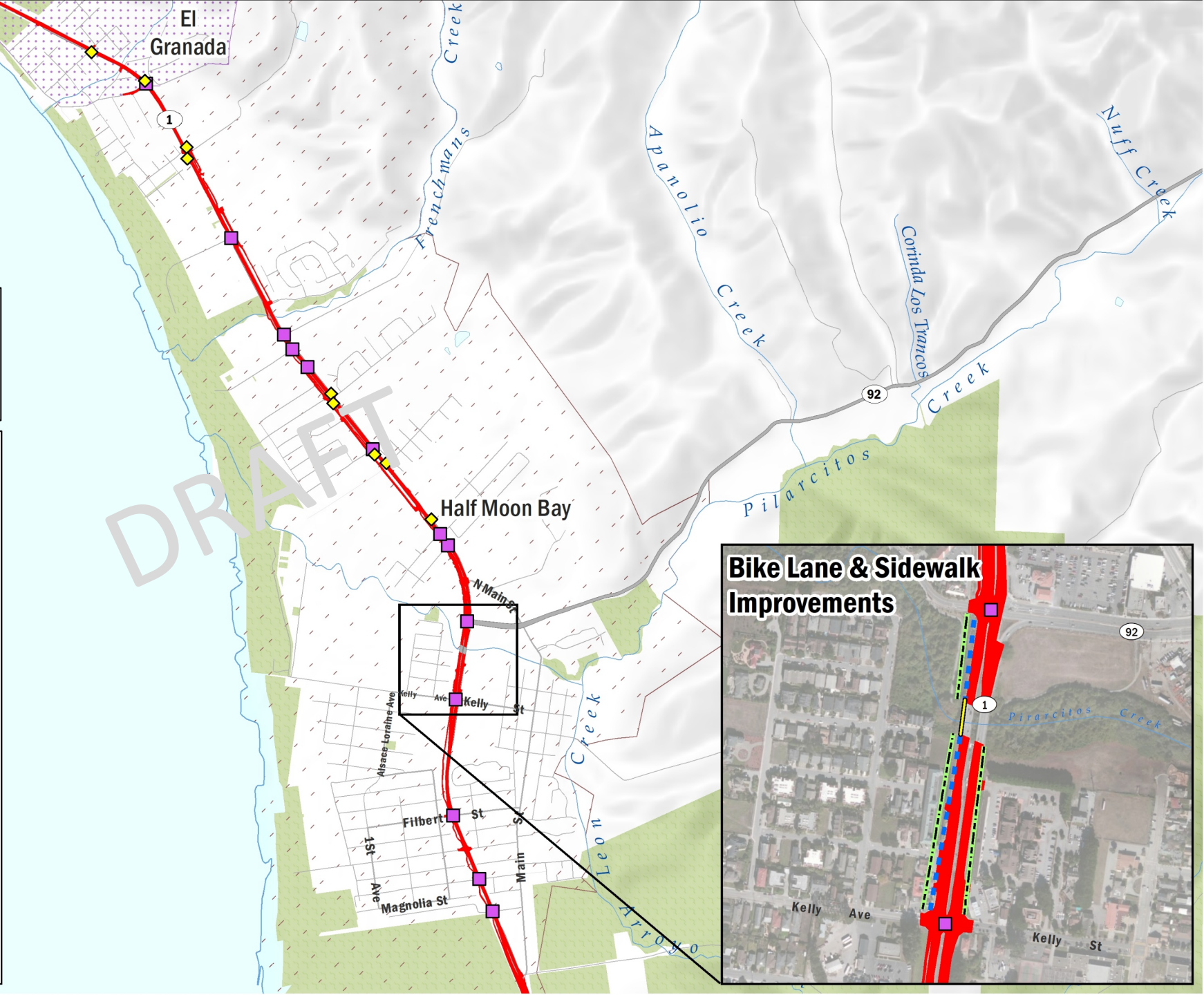
# Bike, Ped, and Complete Street Improvements

- ◆ Transit Stop Paving Location
- Complete Street Intersection Improvement
- Caltrans Postmile
- - - Class I Bike Path
- Class II Bike Lane
- - - Sidewalk
- Pavement Rehabilitation Limits
- ▨ El Granada
- ▨ Half Moon Bay



AECOM, 2021  
ESRI Basemap, 2016  
CPAD, 2020

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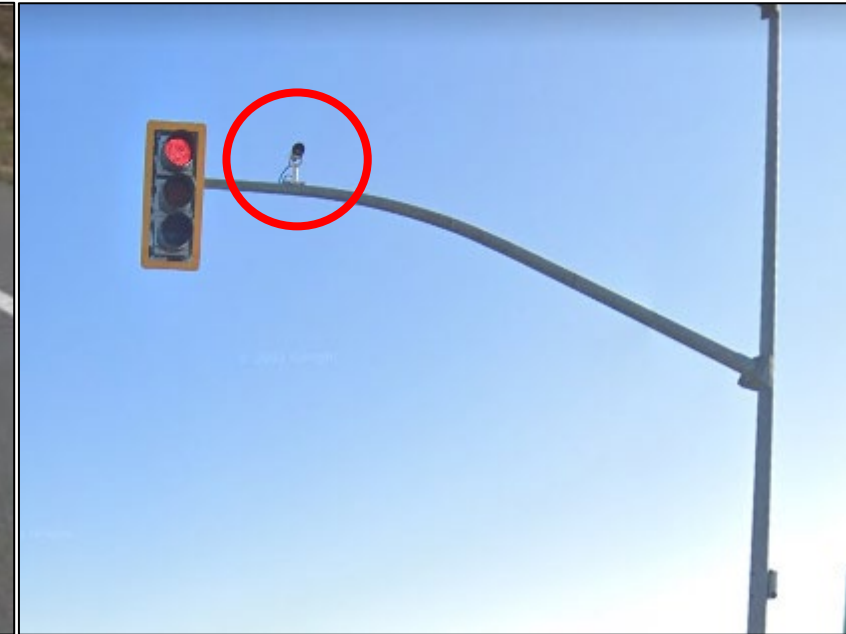
# Traffic Management System Elements



Variable Message Sign (12' X 5')



Traffic Monitoring System



Fixed Intersection Camera/CCTV



# Variable Message Sign Locations

- Variable Message Sign (VMS)
- Caltrans Postmile
- █ Pavement Rehabilitation Limits
- ▨ El Granada
- ▨ Half Moon Bay
- ▨ Moss Beach



AECOM, 2021  
ESRI Basemap, 2016  
CPAD, 2020

SR 1 PM 34.8  
Marine Blvd

1

Moss Beach

Pacific Ocean

El Granada

Magellan Ave SB

Mirada Rd NB

North Main St SB

South Main St NB

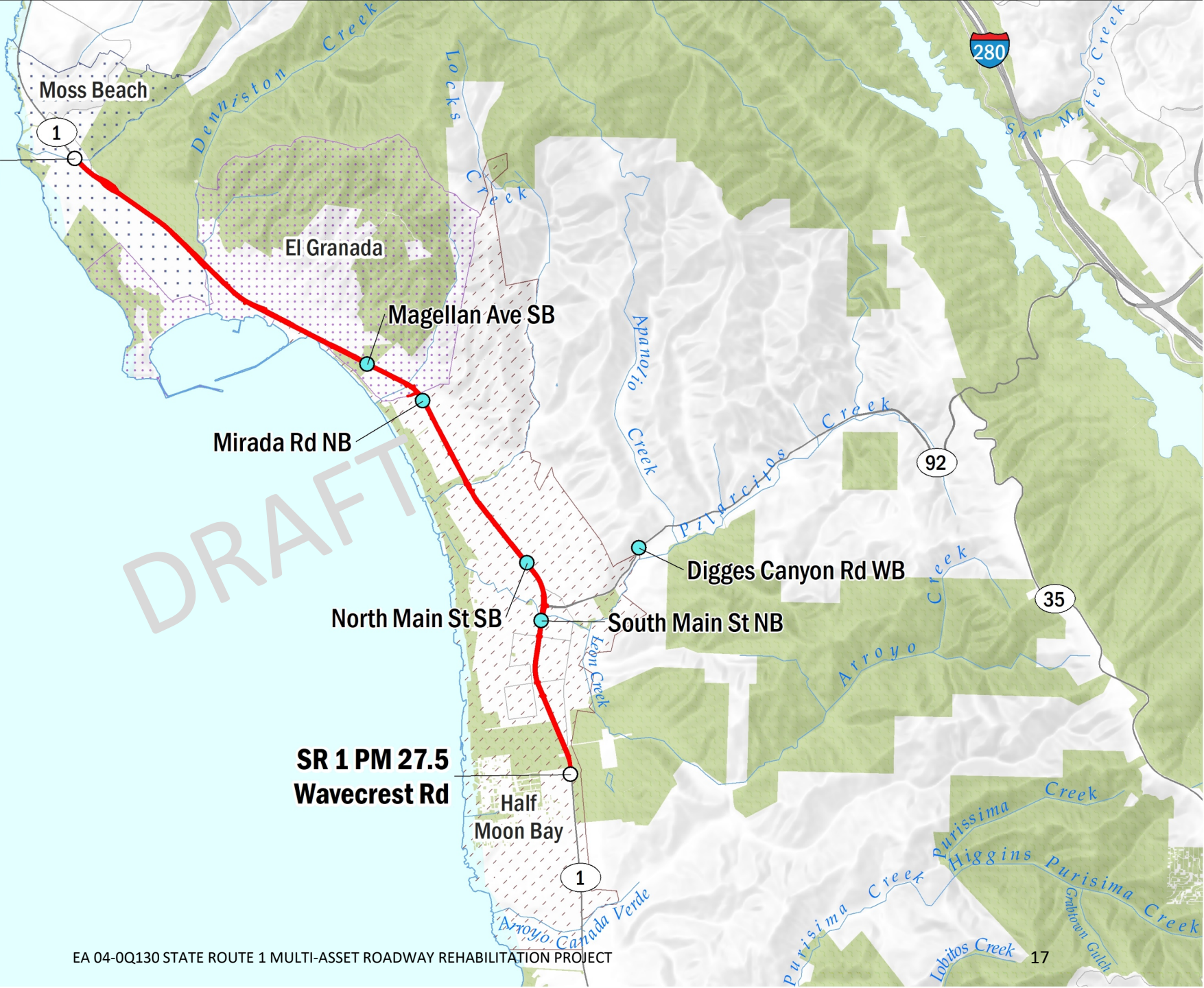
Digges Canyon Rd WB

SR 1 PM 27.5  
Wavcrest Rd

Half  
Moon Bay

1

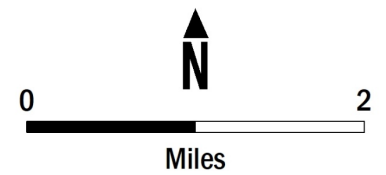
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# Traffic Monitoring System Locations

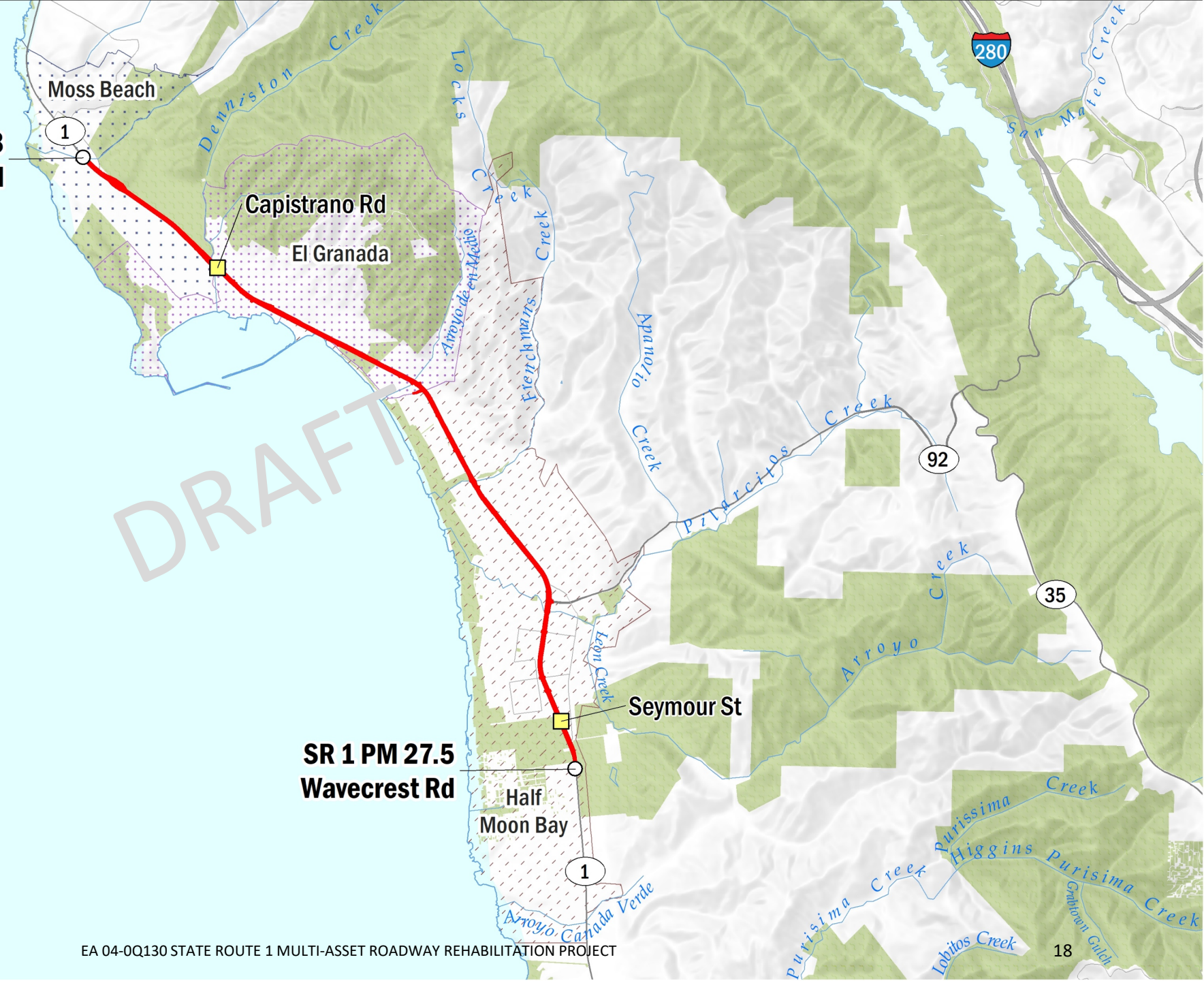
-  Traffic Monitoring System (TMS)
-  Caltrans Postmile
-  Pavement Rehabilitation Limits
-  El Granada
-  Half Moon Bay
-  Moss Beach



AECOM, 2021  
ESRI Basemap, 2016  
CPAD, 2020

SR 1 PM 34.8  
Marine Blvd

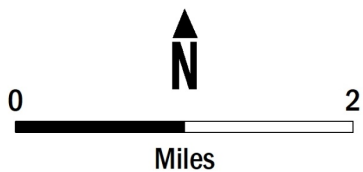
SR 1 PM 27.5  
Wavcrest Rd





# Close Circuit Television (CCTV) Camera Locations

- ▲ Closed Circuit Television (CCTV) Camera
- Caltrans Postmile
- █ Pavement Rehabilitation Limits
- ▨ El Granada
- ▨ Half Moon Bay
- ▨ Moss Beach

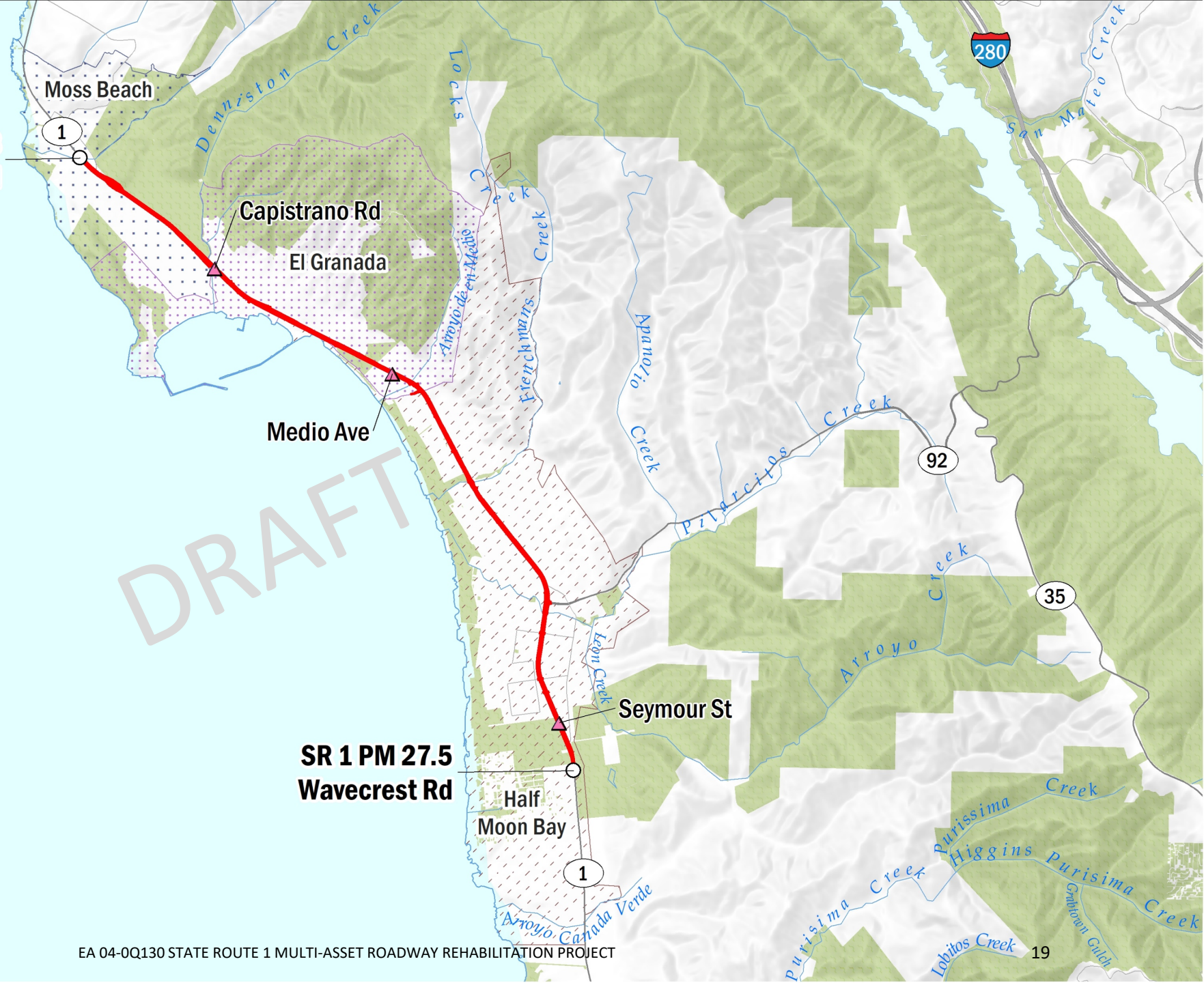


AECOM, 2021  
ESRI Basemap, 2016  
CPAD, 2020

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SR 1 PM 34.8  
Marine Blvd

SR 1 PM 27.5  
Wavcrest Rd





# Fixed Intersection Camera Locations

- ◆ Fixed Intersection Camera
- Caltrans Postmile
- █ Pavement Rehabilitation Limits
- ▨ El Granada
- ▨ Half Moon Bay
- ▨ Moss Beach



AECOM, 2021  
ESRI Basemap, 2016  
CPAD, 2020

SR 1 PM 34.8  
Marine Blvd

Capistrano Rd/Ave Alhambra

Coronado St

Ruisseau Francais Ave

Route 92

Kelly Ave

SR 1 PM 27.5  
Wavcrest Rd

Half Moon Bay

North Main St

Main St

Poplar St

South Main St

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Moss Beach

El Granada

Pacific Ocean

280

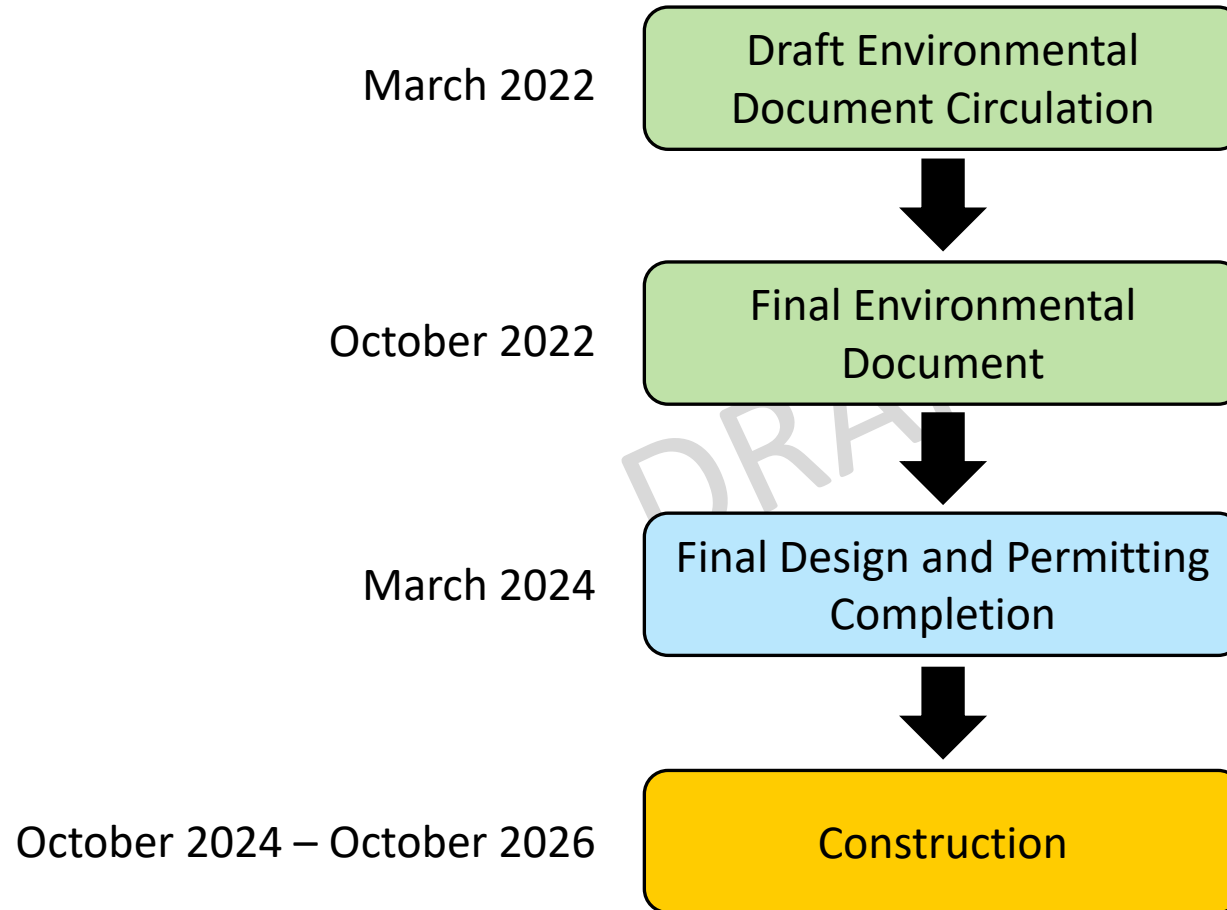
92

35

1



# Project Schedule



# State Route 1 Safety Barrier Project

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PROJECT MANAGER: KERRY MORGAN

04-0Q610

SR 1 PM 38.31

Pacific Ocean

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Martini Creek

SR 1 PM 36.49

Montara

Main St

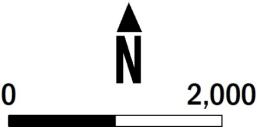
6th St

Harte St

San Vicente Creek

# Project Location

- Caltrans Postmile
- Project Limits



AECOM, 2021  
ESRI BaseMap, 2016  
CPAD, 2020

# Project Purpose and Need

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## ➤ Project Purpose:

- The purpose of this project is to reduce run off the road accidents from errant vehicles
  - Portions of the southbound direction of SR 1 have little to no shoulder backing with a steep drop off to the oceanside below.
  - Barrier upgrades will also be installed at certain locations in the northbound direction

## ➤ Project Need:

- Based on information gathered by Caltrans Traffic Safety, a total of 36 run off the road accidents (2 of which were fatal) occurred on this segment of SR 1 during the 10-year period from January 1, 2007 to December 31, 2016. If not addressed, this risk would remain

# Project Scope and Funding

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## Scope

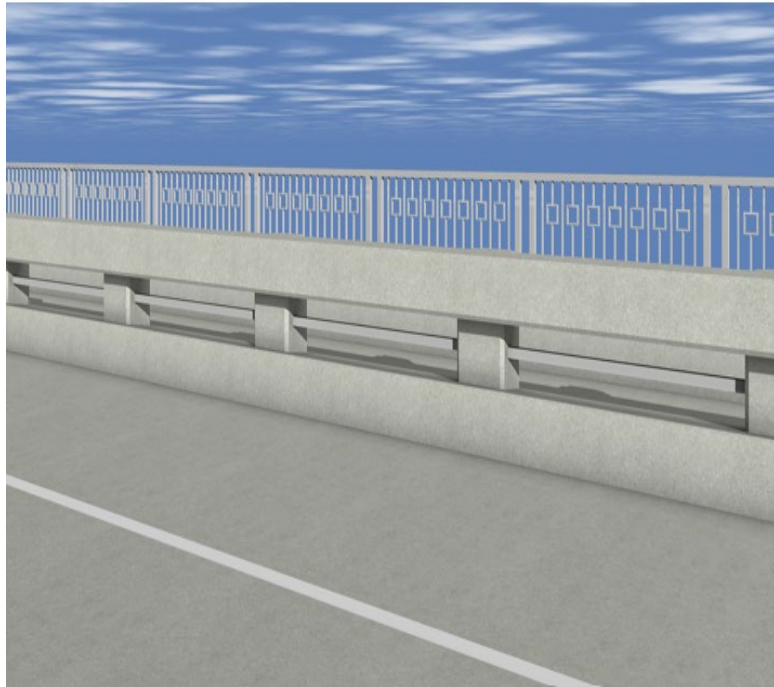
- Construct new barrier rail either MGS, Type 85 or Type 75 at specified locations
- Construct new retaining walls to support the new railing locations, location dependent
- Upgrade existing metal beam guard rail to standard, MGS
- Upgrade regulatory (white) and warning (yellow) signs to standard

## Funding

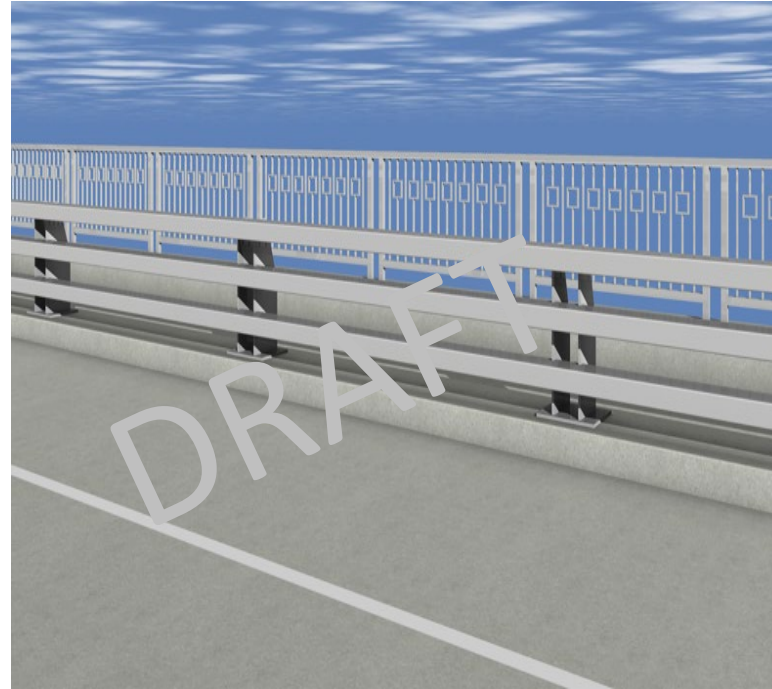
- SHOPP Program:
  - Amended into the 2020 SHOPP
  - Collision reduction



# Design Elements



Type 85 Guard Rail (see-through)



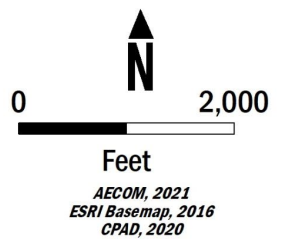
Type ST-75 Guard Rail (see-through)



Midwest Guard Rail System (MGS)

# Project Element Locations

- Caltrans Postmile
- Project Limits
- Project Locations**
- Potential Barriers Under Consideration*
- ◆ MGS
- CB Type 85, or ST-75
- MGS, CB Type 85, or ST-75



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SR 1 PM 38.31

Location 11 NB

Location 10 SB

Location 9 SB

Location 7 SB

Location 8 SB

Location 6 SB

Location 4 SB

Location 5 SB

Location 3 SB

Location 1 SB

Location 2 NB

SR 1 PM 36.49

Main St

6th St

Harbo St

Montara

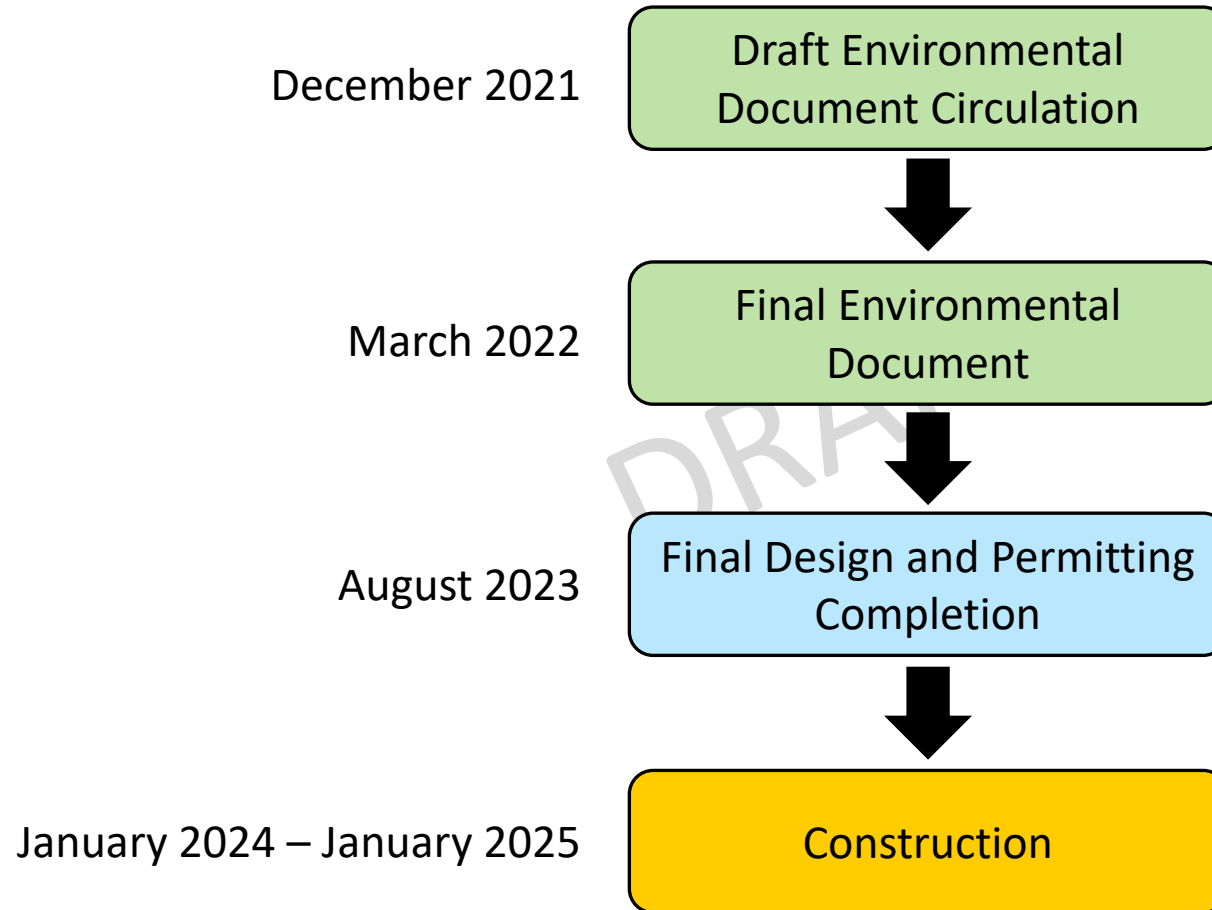
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San Vicente Creek

Martini Creek

Pacific Ocean

# Project Schedule





# Discussion

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