



ALAMEDA COUNTY TRANSPORTATION COMMISSION

# I-80/ASHBY AVENUE (ROUTE 13) INTERCHANGE IMPROVEMENT PROJECT



City of Emeryville  
City Council Study Session  
June 15, 2021

# Presentation Outline

1. Introductions
2. Need & Purpose, Project
3. Six-month Look Ahead
4. Project Status Update
  - ❖ Interchange Alternatives
  - ❖ Bike/Pedestrian Overcrossing (BPOC) Alternatives
  - ❖ Bike/Pedestrian West Conform Alternatives
  - ❖ Environmental Processes and Timeline
5. Project Schedule
6. Project Funding
7. Q & A





# Need & Purpose

- **Vertical Clearance on I-80 Structure (15' to 15'3")**
- **No Connection**
  - Shellmound Street to/from WB I-80
  - Shellmound to Frontage Road
- **No Bike/Pedestrian Connection between 65th Street and Bay Trail**
- **Unconventional interchange form**
- **Local street congestion in Berkeley and Emeryville**



# Proposed Project

- ❖ **Reconstruct the I-80 Ashby Avenue Interchange**
- ❖ **Realign West Frontage Road and Access**
- ❖ **Introduce new bicycle and pedestrian pathway from 65th Street/Shellmound Street to the San Francisco Bay Trail**

# Project Status

## **Currently in Project Approval and Environmental Document (PA&ED) Phase**

- ❖ **Several Environmental Technical Studies are complete**
- ❖ **Several Preliminary Engineering Studies are complete**
- ❖ **Alternative Screening Process is nearing completion**
- ❖ **Draft Environmental Document (DED) will be released in fall 2021 for Public Input**

# Six-month Look Ahead Schedule

## **DED Release for Public Review and Comment**

- ❖ Public meeting
- ❖ Will seek City Council's support

**Fall 2021**

Fall 2021

Fall 2021

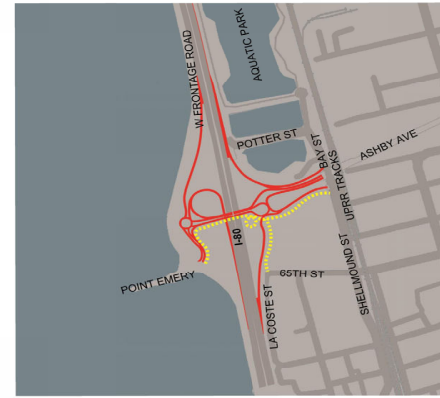
## **Begin Design**

**Late 2021**

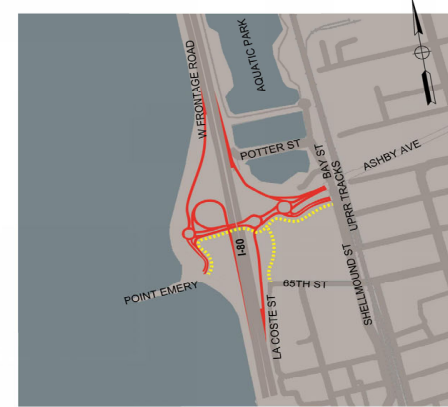
# Interchange Forms Considered



ALTERNATIVE 1 - SIGNAL LOOP



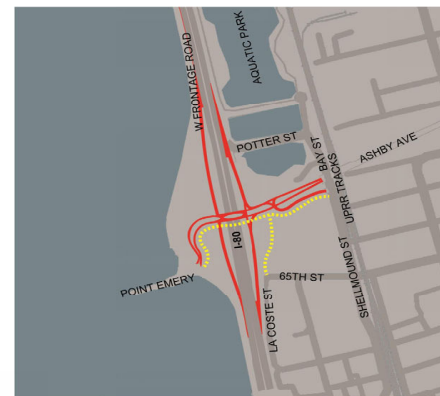
ALTERNATIVE 2 - ROUNDABOUT



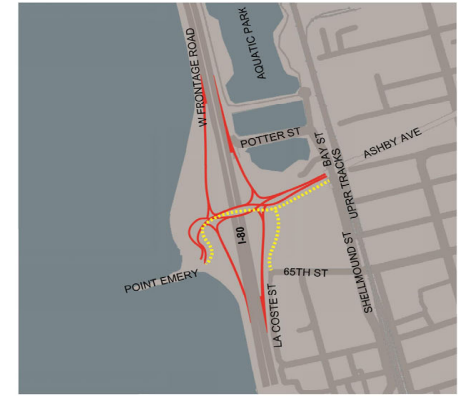
ALTERNATIVE 3 - SIGNAL AS ROUNDABOUT



ALTERNATIVE 4 - SINGLE POINT DIAMOND



ALTERNATIVE 5 - TIGHT DIAMOND



ALTERNATIVE 6 - DIVERGING DIAMOND

**LEGEND:**

- BIKE/PEDESTRIAN PATH
- RAMP CONNECTIONS

**IC FORMS VARIOUS CONCEPTS**

**PRELIMINARY**  
FOR DISCUSSION PURPOSES ONLY  
JANUARY 2019  
EXHIBIT - 23a DATE: 1-25-19

**I-80/Ashby Avenue (SR13) Interchange Improvement Project**



# Alternatives Development Recap

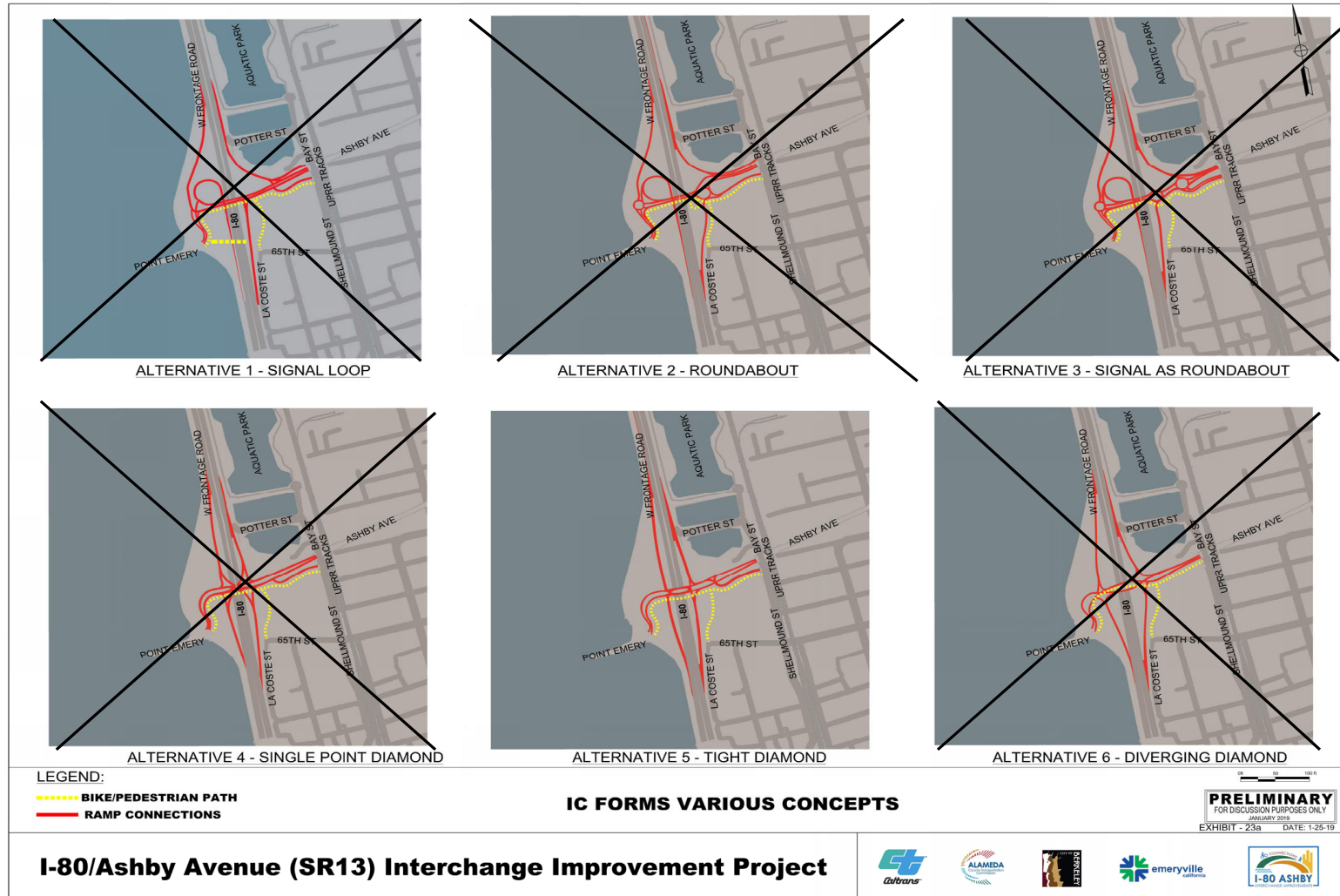
- ❖ **Step 1 Intersection Control Evaluation (ICE) – Eliminated Roundabouts**
- ❖ **Alternatives Screening Memo – Eliminated Diverging Diamond**
- ❖ **Traffic Operations Analysis Report – Screened Alternatives**
- ❖ **West Frontage Road Conform Design Memo – Recommend T-Intersection**



## Alternatives Development Recap (Cont.)

- ❖ **Step 2 ICE – Concluded Tight Diamond Interchange (TDI) offers superior multimodal quality of service**
- ❖ **Value Analysis Study – Concluded TDI has higher performance value**
- ❖ **Project Development Team (PDT) Compared Diamond Form Alternatives (TDI vs. Single Point Interchange)**
- ❖ **PDT Select TDI as Single Build Alternative**

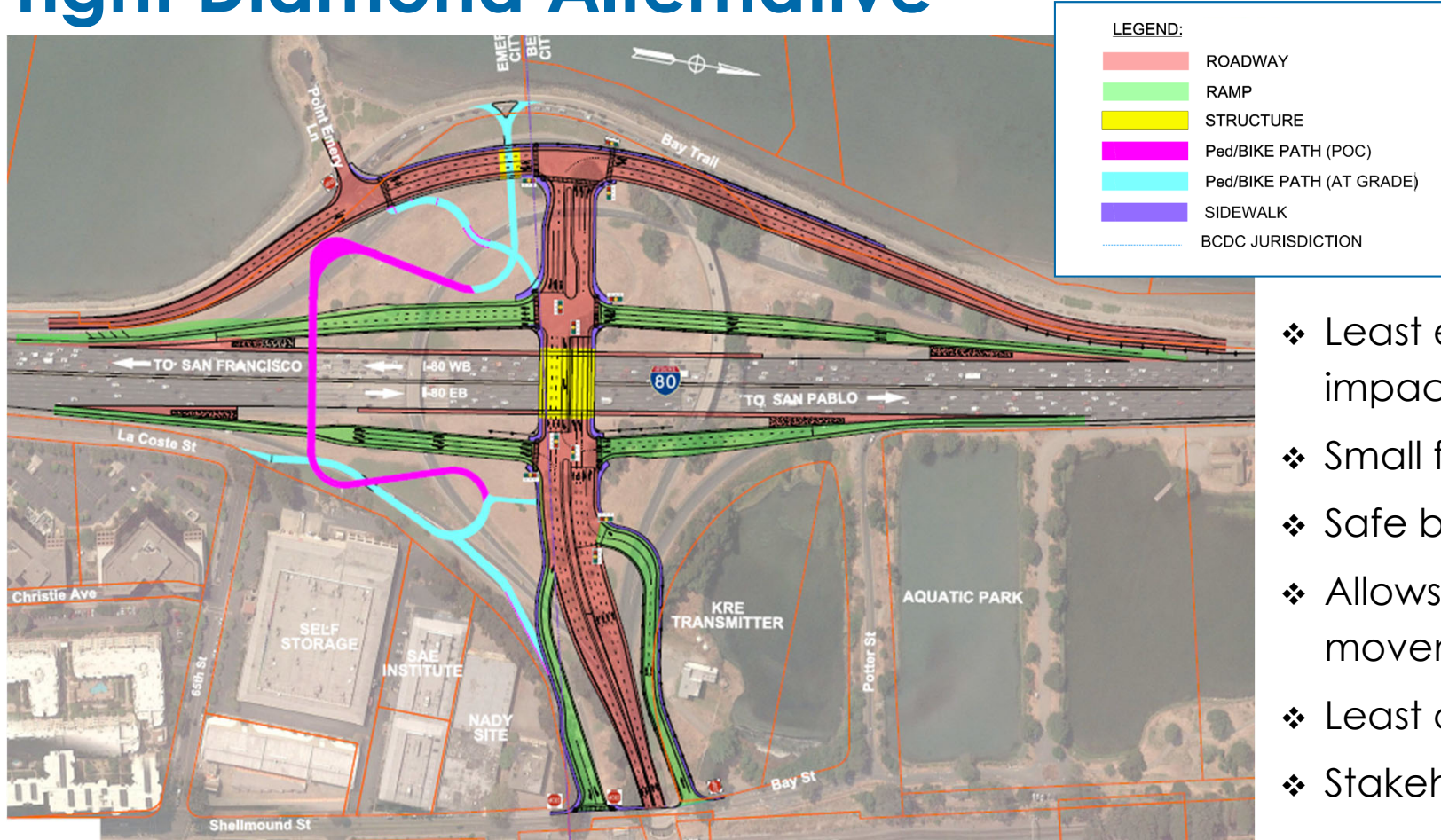
# Interchange Form to be Carried Forward



## I-80/Ashby Avenue (SR13) Interchange Improvement Project



# Tight Diamond Alternative



- ❖ Least environmental impacts
- ❖ Small footprint
- ❖ Safe bike/ped. access
- ❖ Allows ramp-to-ramp movement
- ❖ Least cost
- ❖ Stakeholder preference

# Interchange Alternative Summary

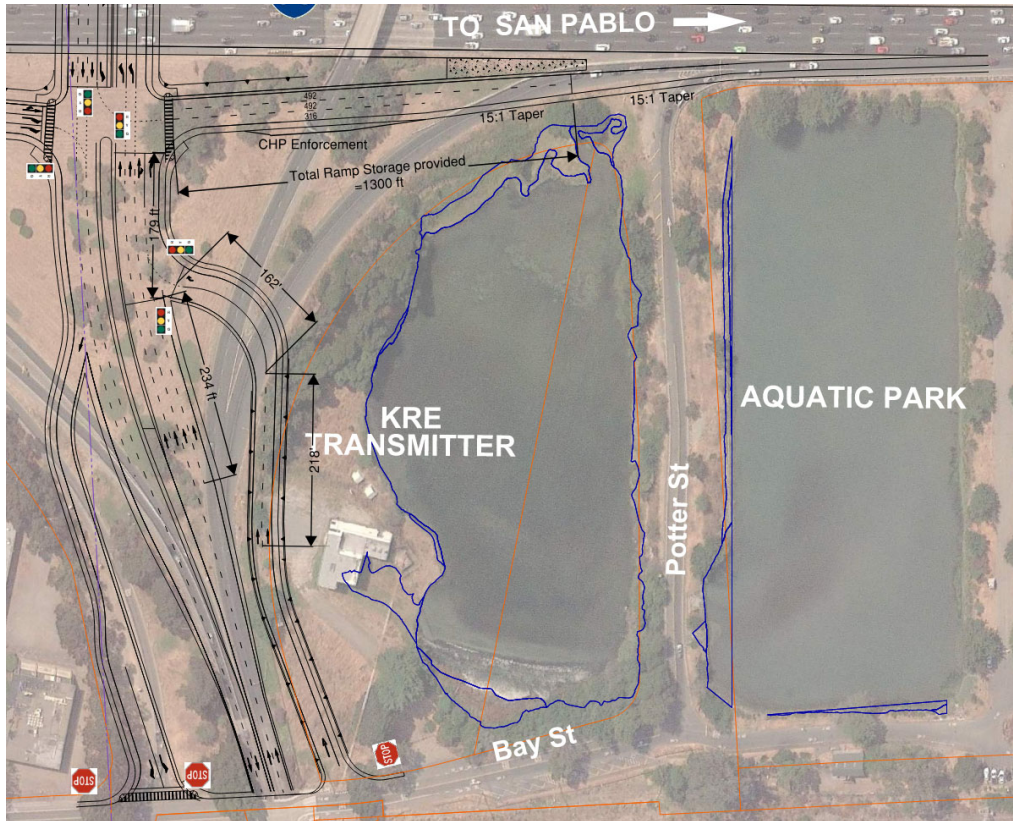
- 1) No Build Alternative
- 2) Tight Diamond Interchange/T-Intersection Alternative

**Note: The range of alternatives considered but not carried forward will be documented in the Draft Environmental Document (DED) for the public review process.**



# Eastbound On-Ramp Metering Design

## AFTERNOON PEAK PERIOD CONGESTION



## Proposed Non-standard Geometry

- ❖ Due to constraints, provides 98% of required storage (max. possible)
- ❖ Design configuration is consistent with other I-80 Interchange Ramps
- ❖ Measures to be implemented to avoid traffic spill over, anticipated within Caltrans right of way
- ❖ **Operationally much better than existing and improves safety**
- ❖ **Seeking City's acknowledgment**



# Bike/Pedestrian Overcrossing Variations

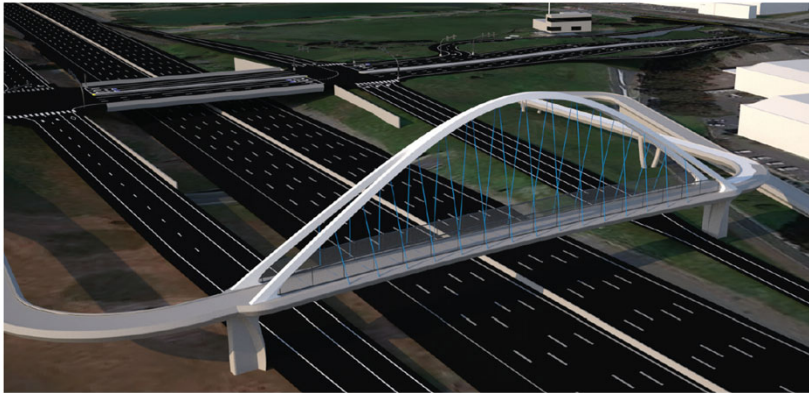
**BASELINE BOX GIRDER**



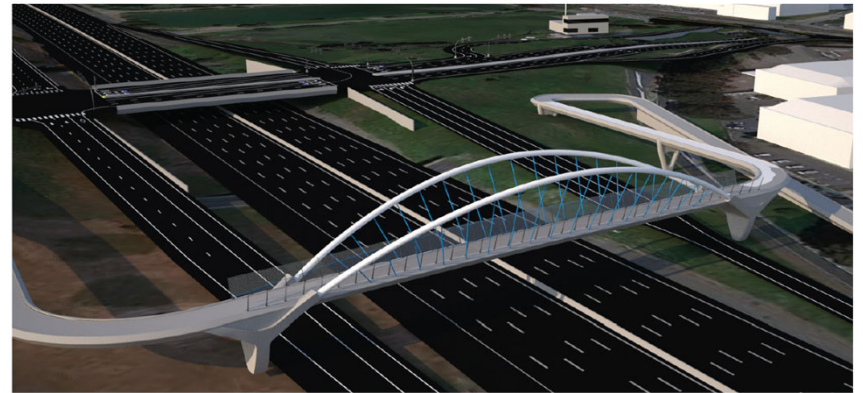
**TRUSS**



**BASKET HANDLE**



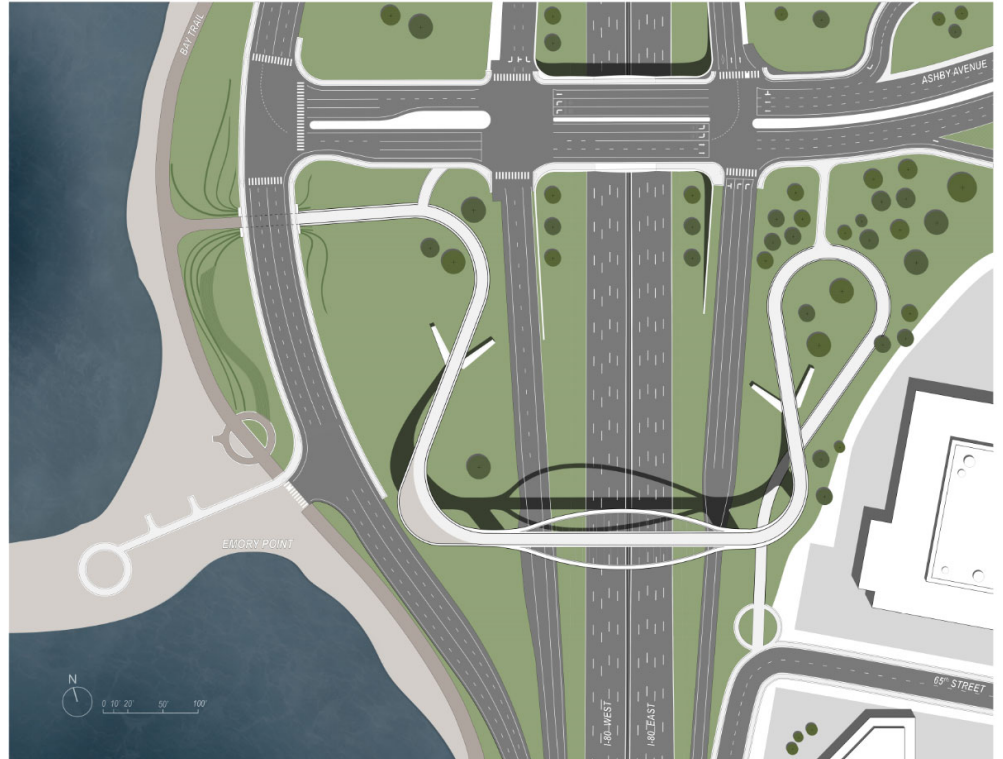
**BUTTERFLY ARCH**



# Western Conform Alternatives

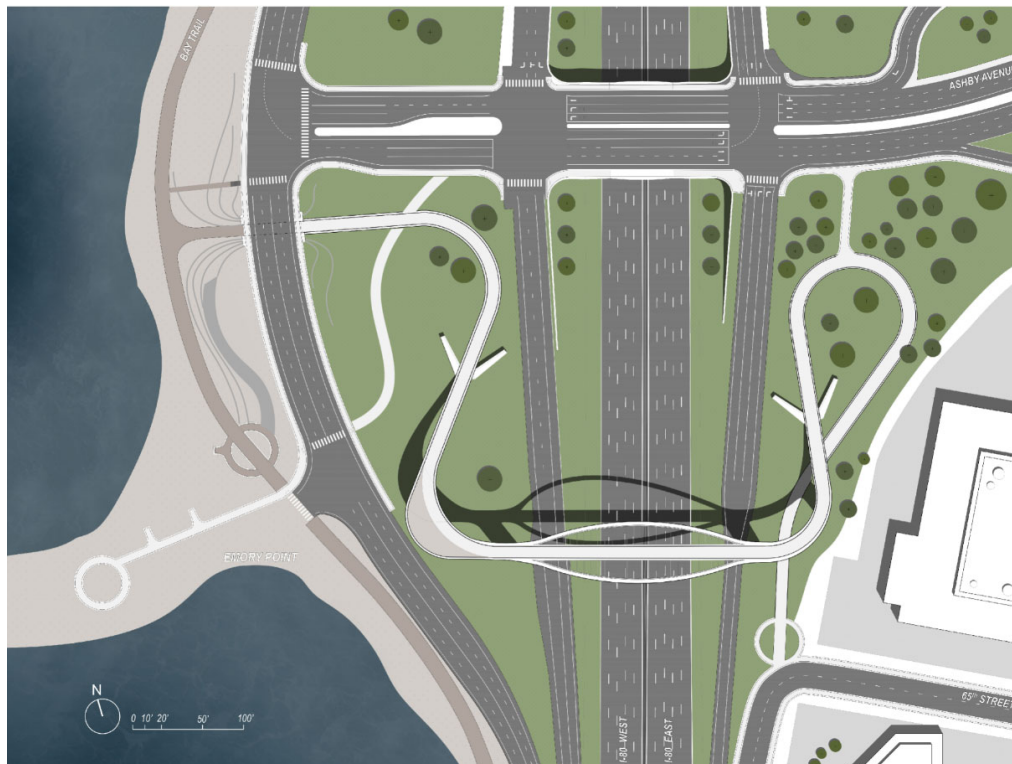


**Point Emery Connection (Mid-block)**



**No-conflict (Portal)**

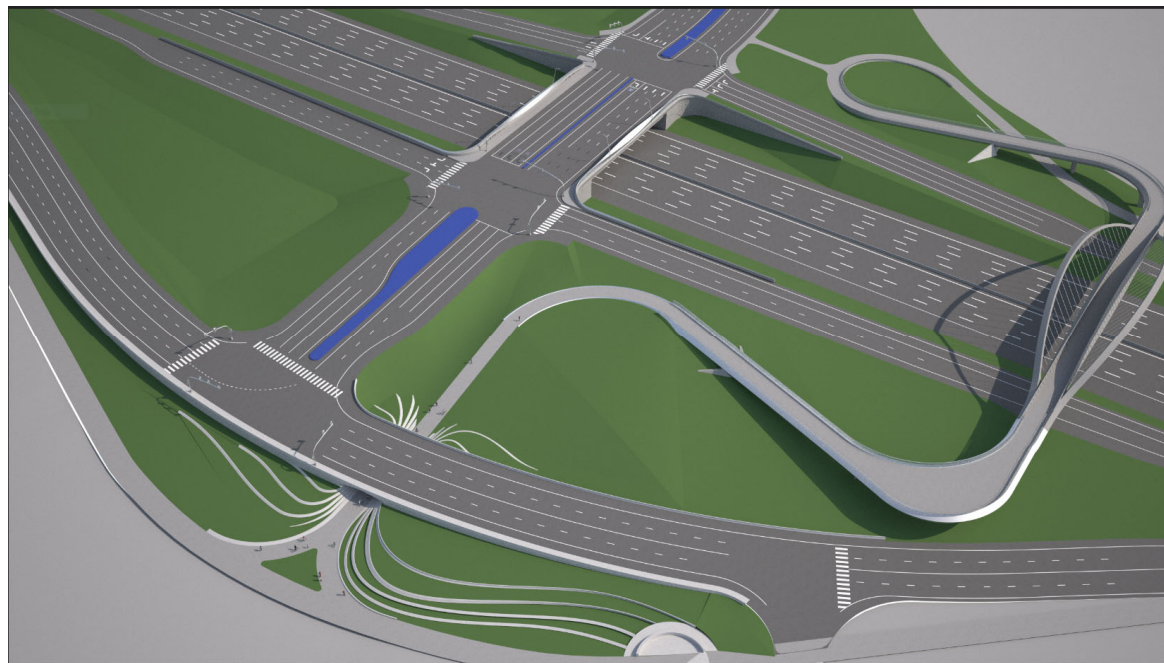
# Western Conform Alternatives (cont'd)



**Hybrid Portal/Underpass and Midblock Crossing**

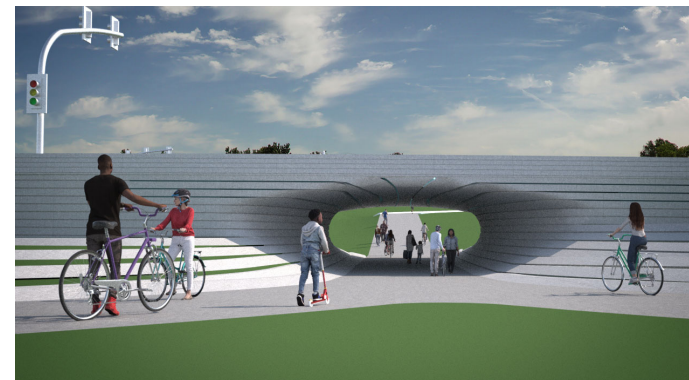


# Western Conform (cont'd) – Zero Conflict



**Aerial View**

**Looking East**



**Looking West**



# Western Conform Summary

- ❖ **Mid-Block**
- ❖ **No Conflict Portal**
- ❖ **Hybrid**

→ *Each included as a “variation” in the DED*

→ *Public input will be sought through the DED public review processes*

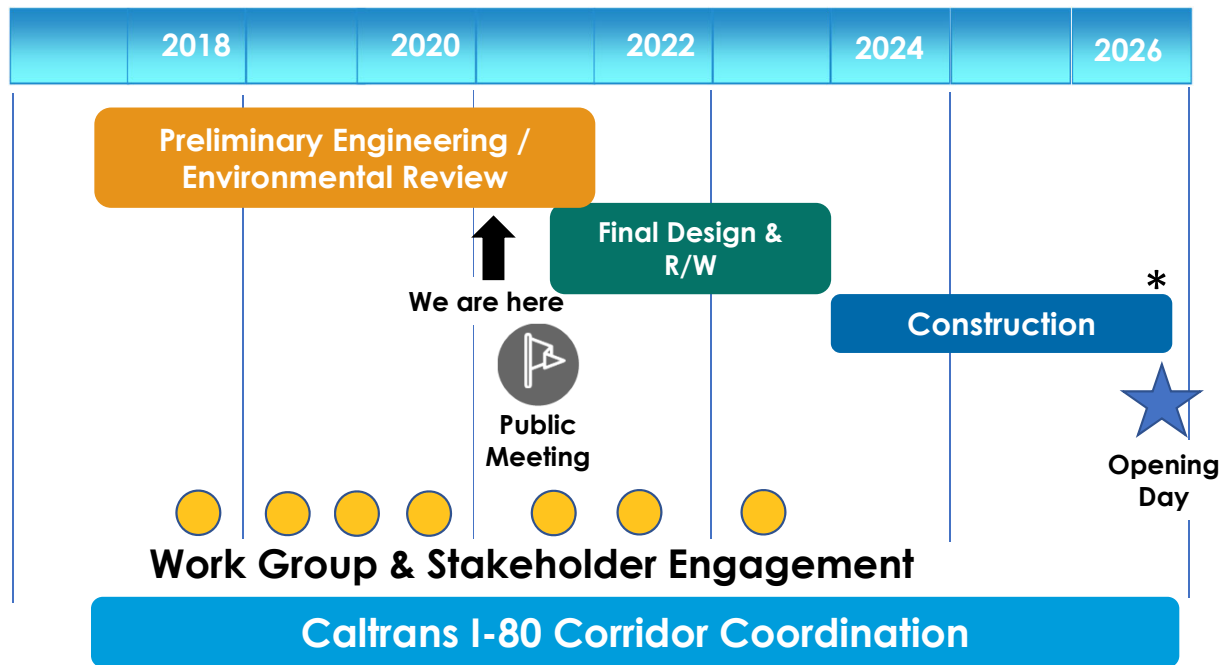


# Next Steps

## Environmental Process

- ❖ **Complete DED & Draft Project Report (DPR)**
- ❖ **Release DED**
- ❖ **Hold Public Meeting**
- ❖ **Select Preferred Alternative**
- ❖ **Finalize Environmental Document (FED) & Project Report (FPR)**

# Project Schedule



\*Subject to Funding Availability

## Fall 2021

- ❖ DED
- ❖ Public Meeting

## Early 2022

- ❖ FED

## Fall 2023

- ❖ Final Design
- ❖ Right of Way Certification\*

## Fall 2026

- ❖ Construction Completion\*



# Project Funding Plan (in millions)

Phase	Measure BB	TBD*	TOTAL
Environmental	\$4.5	0	\$4.5
Design	\$10.5	0	\$10.5
ROW	\$4.4	0	\$4.4
Construction	\$32.6	\$105	\$137.6
<b>TOTAL</b>	<b>\$52.0</b>	<b>\$105.0</b>	<b>\$157.0</b>

\*Alameda CTC will work with its partners to secure federal, state, regional and other local funds to close the \$105 million in funding gap.

# Key Areas of Feedback

- ❖ **City's Acknowledgement for the Non-standard Ramp Meter Design**
- ❖ **Preliminary Comments on Western Conform Options**
- ❖ **Preliminary Comments on Bike and Pedestrian Overcrossing Options**

An aerial rendering of a proposed highway interchange. A multi-lane highway runs vertically through the center. To its left, a road curves around a grassy hillside. To its right, another road curves around a similar area. The interchange features several overpasses and ramps. The surrounding landscape includes dry grass, some trees, and a body of water in the upper left. The text "Q & A" is overlaid in the center in a large, blue, sans-serif font.

# Q & A





# Thank You

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