Trancas Creek Bridge Replacement Project on PCH in City of Malibu by California Dept. of Transportation (Caltrans)
Caltrans Project Team:

- Project Manager: Reza Fateh
- Environmental Senior: Robert Wang
- Design Manager: Orlance (OC) Lee
- Design Engineer: Barney Vorreiter
- Construction Manager: Michael Dipsia
- Resident Engineer: Alfred Ira
- Public Information Officer: Alisa Alamanzan
Existing Bridge:

- Reinforced Concrete bridge
- 85’ Wide x 90’ Long
- Over 96 years old
- The bridge has been determined to be **scour critical** which essentially means that earth material that support the foundation has been partially washed away which has created a potential for the bridge to become unstable.
- To minimize the foundation erosion and stabilize the bridge Caltrans did an Emergency Project and placed rock slope protection around the foundations in 2019 which provides temporary protection until the bridge is replaced.
- The superstructure also shows several signs of aging such as cracks and rusted reinforcement
The Replacement (new) Bridge

- **Dimensions:**
  - Reinforced Concrete Bridge
  - 109’ Wide x 240’ Long on 4 x60’ spans
  - 150’ longer than the existing bridge to accommodate the County of LA’s Flood Control District’s Q50 Bulk and Burn flow.

- **Cost / Schedule:**
  - Engineer’s Estimate - $13.5 Mil
  - Construction Duration - 27 Months
  - Work within the creek can only be done during Dry Season which is from April 15 to November 15.
  - Hence the work will have to be done over a two year span to allow two Dry Seasons for the work in the creek.
PHOTO SIMULATION
DRAWN BY D. FOWKES 11/04/19

Trancas Creek Bridge Project - City of Malibu
Project Schedule:

- Design Completion: September 30, 2020
- CTC to vote funds: December 2, 2020
- Advertise: January 4, 2021
- Bid Open: February 4, 2021
- Award: February 12, 2021
- Approve Contract: February 26, 2021
- End Construction: July 2023
Construction:

Before Bridge Work begins:

- County of LA will relocate its 16” Water main away from the bridge temporarily
- Other utility Companies will relocate their lines- Electric, Gas, Telephone, Cable

Caltrans Bridge Work - Stage 1

- Install a temporary traffic signal at Guernsey Ave
- Construct temporary Pedestrian / Bike lane on the oceanside of the bridge
- Restripe PCH and shift the existing 4 traffic lanes to the oceanside
- Place K-rail to separate work zone from traffic
- Demolish and remove the inland half of the existing bridge (dry season work)
- Excavate and remove approximately 7000 yards of dirt
  - Opportunity for Developers / City / County to use the excavated material locally
  - Total of about 14000 yards - Contact PM if interested
Construction:

Caltrans Bridge Work - Stage 1 (continued)

- About 7000 yards will be available in first half of 2021
- About 7000 yards will be available in first half of 2022
- More accurate timeframes will become available after the contract is awarded.

- Install piles, construct the foundation (dry season work)
- Construct the inland half of the superstructure (Bridge)
- This half will accommodate 4 lanes of traffic for Stage 2
- Construct temporary Pedestrian/bike lane on the inland side
- Restripe the inland side of the PCH from Guernsey Ave to Trancas Canyon Road intersection to accommodate 4 lanes over the new bridge half
- Shift traffic over to the east side of PCH (inland side)
Construction Staging:

Caltrans Bridge Work Stage 2:

- Shift Traffic over to the east (inland side) on newly built Bridge half
- Remove Temporary Ped/bike lane on the oceanside
- Demolish the remaining half of the old bridge (oceanside)
- Excavate and remove the existing foundation (Dry season work)
- Excavate and remove approximately 7000 yards of dirt
- Install piles and build the new foundation (Dry season work)
- Construct the second half of the superstructure (bridge)
- Remove the temporary Bike and Ped path on the inland side
- County of LA to re-install its 16” watermain back on the new bridge
- All Utilities will complete relocating to their permanent locations
- Restripe the new bridge to its final configuration
- Shift traffic back to its permanent configuration providing two lanes in each direction
- Remove temp signal at Guernsey Ave.
Public Outreach During Construction

- Caltrans Public Information Officer (PIO) will:
  - Notify City of Malibu Public Works and its PIO of any planned closures on PCH
  - Issue Media Releases to the public
  - Post closures / detours on social media
  - Issue a detour map if necessary
  - Tag City of Malibu on all social media posts on the project

- The Resident Engineer will be available to address any concerns the public has during construction.

- You can also reach me:
  - email: Reza.fateh@dot.ca.gov
  - Tel.: 213-269-1434

- You are encouraged to send your inquiries to:
  - TrancasBridgeProject@dot.ca.gov
Questions / Comments?
Should be submitted to:
TrancasBridgeProject@dot.ca.gov