



EL DORADO COUNTY

DEPARTMENT OF TRANSPORTATION

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Mosquito Road Bridge Replacement Project

Department of Transportation Construction Update #7

May 3, 2024

The Mosquito Road Bridge Replacement Project construction has been underway since July 2022. This is the seventh quarterly construction update for the community:

January 2024

- Continued progress drilling and installing Pier 2 CIDH piles (approx. 31 of 35 total installed by end of month).
- Continued progress drilling and installing Pier 2 soldier piles (approx. 14 of 18 total installed by end of month).
- Continued installation of lagging for Pier 2 soldier pile retaining wall.
- Continued structure backfill for Pier 2 soldier pile retaining wall.
- Completed drilling and installing Pier 3 CIDH piles.
- Completed drilling and installing Pier 3 soldier piles.
- Continued installation of lagging for Pier 3 soldier pile retaining wall.
- Continued structure backfill for Pier 3 soldier pile retaining wall.
- Began Pier 3 footing subgrade and Vertical Shoring Tower (VST) footing excavation.
- Completed Drainage System #5 outfall wall.
- Continued site inspections & storm water sampling for erosion control compliance.
- Continued maintenance of storm water erosion control measures site wide.
- Continued site wide roadway sweeping as needed.
- Monitored Pier 2 & 3 inclinometers – (no slope movement).
- Continued deliveries of Project concrete, rebar, and other materials.
- Continued Project batch plant concrete supply to north CIDH pile and soldier pile operations.
- Continue intermittent flagging and traffic control for equipment and materials deliveries.



1/03/24 – Continued Installing Pier 2 CIDH Piles



1/03/24 – Abutment 1 Erosion Control



1/03/24 – Prefabricate & Stage Pier 2 CIDH Pile Cages



1/05/24 – Continued Installing Pier 3 CIDH Piles



1/05/24 – DS-5 Outfall Wall Construction



1/09/24 – Pier 3 Soldier Pile Walls



1/22/24 – Abutment 4 Erosion Control



1/31/24 – Pier 3 CIDH Piles Completed – VST Footing Exc.

February 2024

- Completed drilling and installing Pier 2 CIDH piles.
- Completed drilling and installing Pier 2 soldier piles.
- Continued installation of lagging for Pier 2 soldier pile retaining wall.
- Continued structure backfill for Pier 2 soldier pile retaining wall.
- Began Fabrication of Pier 2 column reinforcement cages for Lifts 1 – 2.
- Completed installation of lagging for Pier 3 soldier pile retaining wall.
- Completed Pier 3 footing subgrade and VST footing excavation.
- Completed Pier 3 footing subgrade rat slab concrete placement.
- Began / Completed Pier 3 footing bottom mat reinforcing bar installation.
- Began fabrication of Pier 3 column reinforcement cages for Lifts 1 – 2.
- Installed VST for Pier 3 column lifts 1 & 2.
- Began installation of Pier 3 column interior forms for lift 1.
- Began Pier 3 top mat reinforcing bar installation.
- Began Pier 3 footing form installation.
- Continued site inspections & storm water sampling for erosion control compliance.
- Continued maintenance of storm water erosion control measures site wide.
- Continued site wide roadway sweeping as needed.
- Monitored Pier 2 & 3 inclinometers – (no slope movement).
- Continued deliveries of Project concrete, rebar, and other materials.

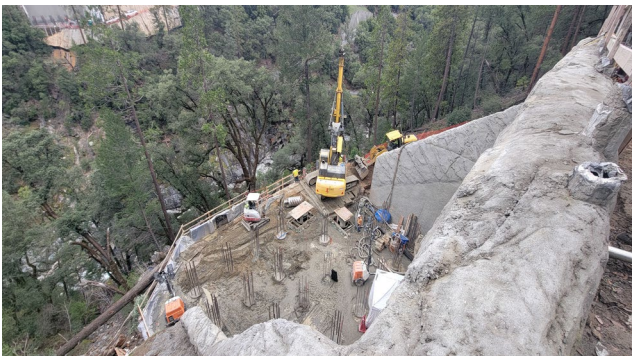
- Continued Project batch plant concrete supply to north CIDH pile and soldier pile operations.
- Continue intermittent flagging and traffic control for equipment and materials deliveries.



2/02/24 – Prefabricated Pier 3 Column Reinforcement



2/02/24 – Pier 3 CIDH Piles & VST Footing Exc.



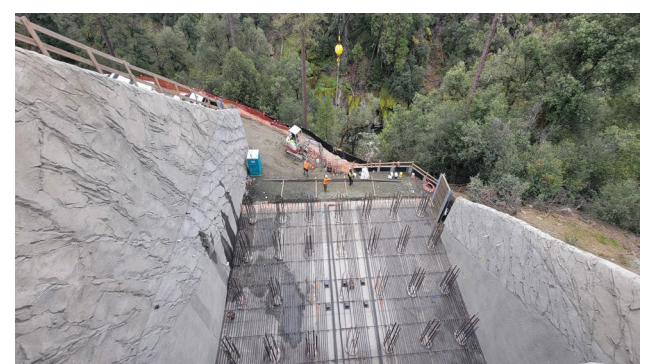
2/14/24 – Pier 2 CIDH & Soldier Piles Installation



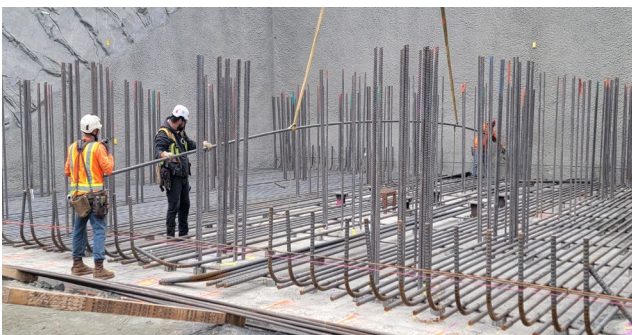
2/14/24 – Pier 2 Concrete Supply "Slick Line"



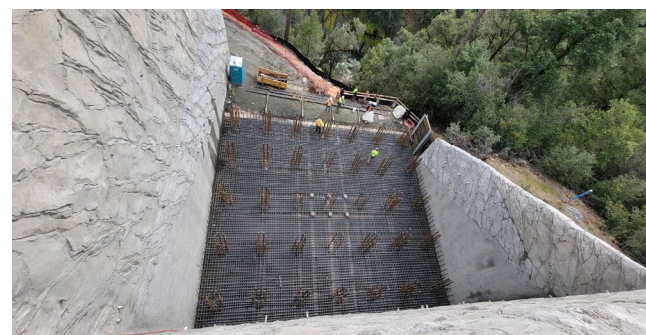
2/14/24 – Prefabricated Pier 2 Column Reinforcement



2/14/24 – Pier 3 Rat Slab / VST Footing Placed



2/14/24 – Pier 3 Bottom Mat Reinforcement Placement



2/16/24 – Bottom Mat Reinforcement Completed



2/28/24 – Pier 3 Internal Form & VST Installed



2/29/24 – Pier 2 Final CIDH & Soldier Pile Concrete Placement

March 2024

- Began / Completed Pier 2 footing subgrade and VST footing excavation.
- Began / Completed Pier 2 footing subgrade rat slab concrete placement.
- Began / Completed Pier 2 footing bottom mat reinforcing bar installation.
- Installed VST for Pier 2 column lifts 1 & 2.
- Began Pier 2 column reinforcing bar for lifts 1 & 2.
- Began / Completed Pier 2 footing top mat / headed hairpins reinforcing bar installations.
- Began / Completed Pier 2 footing form installation.
- Began / Completed installation of Pier 2 column interior forms for lift 1.
- Completed revisions to VST for Pier 3 column lifts 1 & 2.
- Completed installation of Pier 3 column interior forms for lift 1.
- Began Pier 3 column reinforcing bars installation for lifts 1 & 2.
- Continued site inspections & storm water sampling for erosion control compliance.
- Continued maintenance of storm water erosion control measures site wide.
- Continued site wide roadway sweeping as needed.
- Monitored Pier 2 & 3 inclinometers – (no slope movement).
- Continued deliveries of Project concrete, rebar, and other materials.
- Continued Project batch plant concrete supply to north Pier 3 footing operations.
- Continue intermittent flagging and traffic control for equipment and materials deliveries.



3/04-24 – Unload Pier 3 Footing Reinforcing Bar



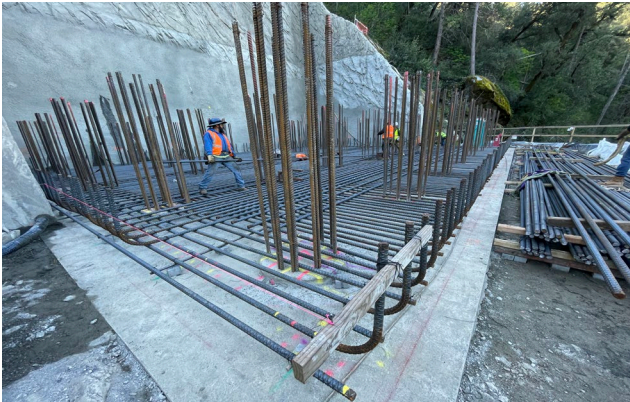
3/05/24 – Pier 2 Footing Subgrade & VST Footing Excavation



3/08/24 – Pier 2 Footing Rat Slab & VST Concrete Placement



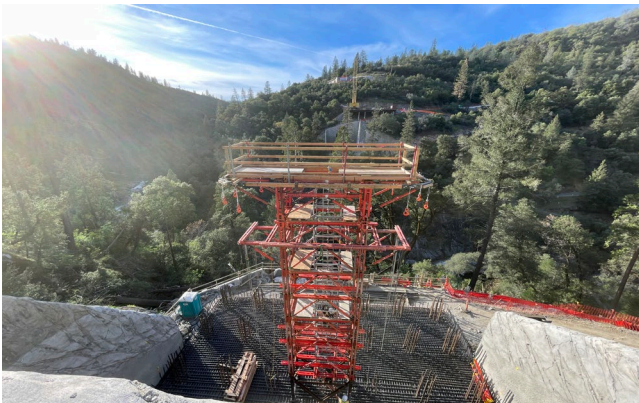
3/12/24 – Pier 2 VST Construction & Staging on Trestle



3/19/24 – Pier 2 Bottom Mat Reinforcing Bar Installation



3/20/24 – Pier 2 VST Placement from Trestle



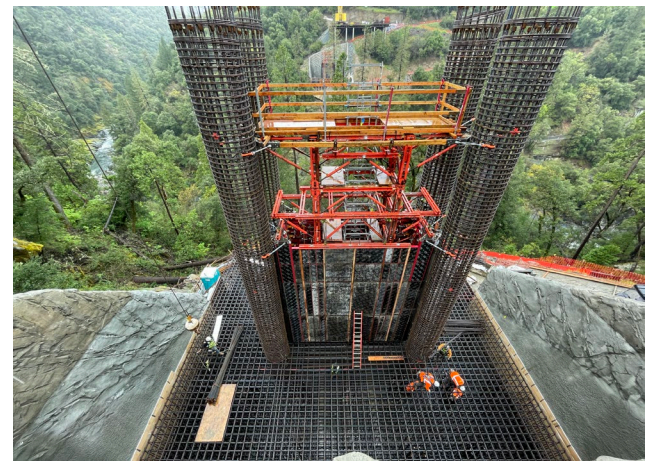
3/20/24 - Pier 2 VST Installed



3/25/24 – Pier 2 Install Interior Column Form Panels on VST



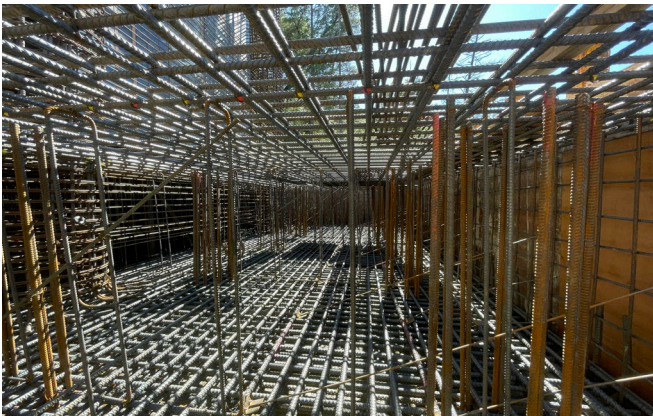
3/27/24 – Pier 2 Column Reinforcing Bar Cages Installation



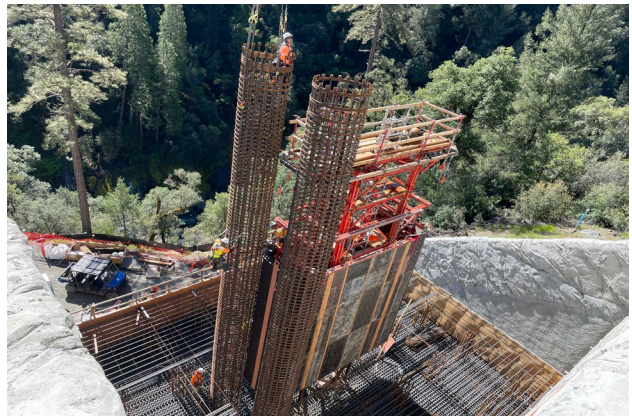
3/30/24 – Pier 2 Footing Top Mat Reinforcing Bar Installation

April 2024

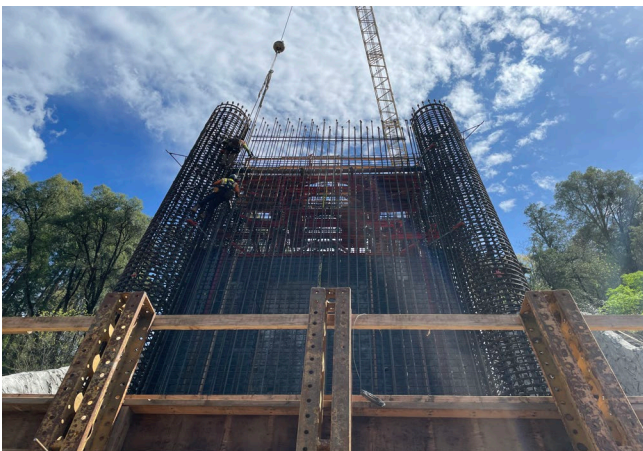
- Completed Pier 2 column reinforcing bar for lifts 1 & 2.
- Completed “Trip to Green” traffic control on Highway 50 for Pier 2 footing concrete placement.
- Completed 1,100 cubic yard Pier 2 footing concrete placement.
- Began / Completed Pier 2 footing mass concrete curing.
- Completed Pier 2 column reinforcing bar installation for lift 1.
- Began installation of Pier 2 exterior forms for lift 1.
- Completed Pier 3 column reinforcing bars installation for lifts 1 & 2.
- Completed Pier 3 footing top mat / headed hairpins reinforcing bar installations.
- Completed Pier 3 footing form installation.
- Completed 1,100 cubic yard Pier 3 footing concrete placement.
- Began Pier 3 footing mass concrete curing.
- Continued site inspections & storm water sampling for erosion control compliance.
- Continued maintenance of storm water erosion control measures site wide.
- Continued site wide roadway sweeping as needed.
- Monitored Pier 2 & 3 inclinometers – (no slope movement).
- Continued deliveries of Project concrete, rebar, and other materials.
- Continued Project batch plant concrete supply to north Pier 3 footing operations.
- Continue intermittent flagging and traffic control for equipment and materials deliveries.



4/1/24 – Pier 2 Footing Reinforcing Bar Installation



4/1/24 – Pier 3 Column Reinforcing Bar Cages Installation



4/3/24 – Pier 2 Column Shear Wall Reinforcement Installation



4/5/24 – Hwy 50 “Trip to Green” for Pier 2 Concrete Haul



4/5/24 – Pier 2 Concrete Truck Staging



4/5/24 – Pier 2 Footing Concrete Placement (1,100 CY)



4/6/24 – Pier 2 Footing Concrete Placement Complete



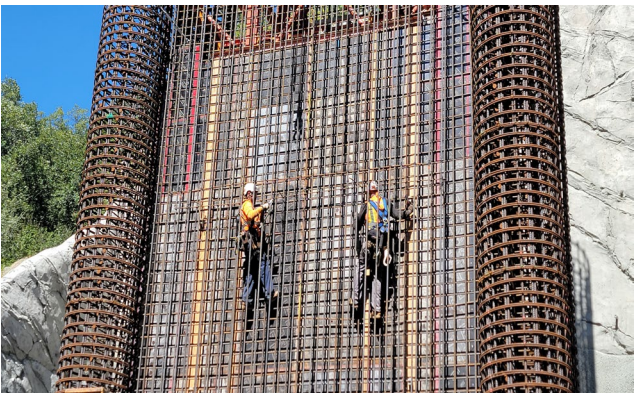
4/6/24 – Pier 2 Footing Concrete Thermal Cure



4/09/24 – Pier 3 Top Mat Reinforcement Complete



4/11/24 – Pier 3 Shear Wall Reinforcing Steel Installation



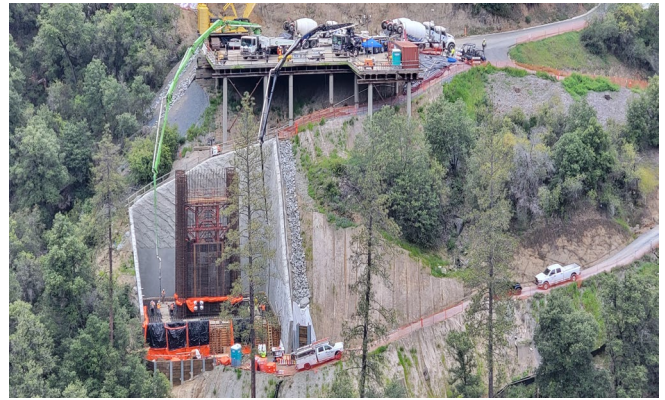
4/11/24 – Pier 3 Shear Wall Reinforcing Steel Installation



4/13/24 – Pier 3 Concrete Supply from Finnon Batch Plant



4/13/24 – Pier 3 Footing Concrete Placement



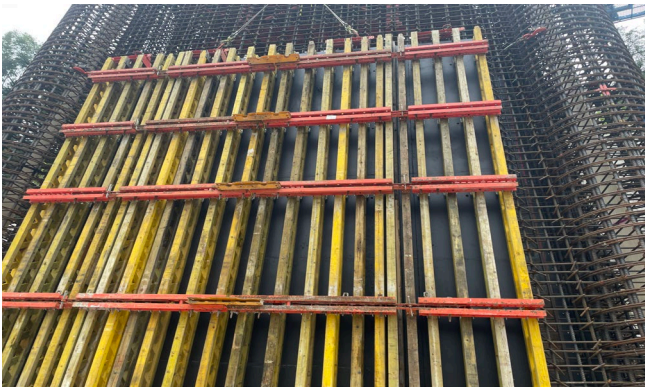
4/13/24 – Pier 3 Footing Concrete Placement



4/17/24 – Pier 3 Concrete Thermal Cure



4/17/24 – Pier 2 Install Shear Wall Reinforcement Hairpins



4/26/24 – Pier 2 Begin Lift 1 Exterior Form Placement



4/29/24 – Pier 3 Stage Lift 1 Exterior Forms at Trestle

May - July 2024 Anticipated Work

- 386 of 700 (55.1%) Project working days complete through the update date.
- Complete installation of Pier 2 soldier pile retaining wall lagging and structure backfill.
- Complete drainage ditches adjacent to Pier 2 ground anchor / soil nail retaining walls.
- Complete installation of Drainage System #7 outlet below Pier 2 soldier pile retaining wall.
- Complete installations of Pier 2 column reinforcing bars, interior / exterior forms, and concrete placements for column lifts 1-6 (out of 8 lifts total).
- Continue installations of Pier 2 column reinforcing bars, interior / exterior forms for lift 7.
- Complete structure backfill of soldier pile retaining walls at Pier 3.
- Complete drainage ditches adjacent to Pier 3 ground anchor / soil nail retaining walls.
- Complete installations of Pier 3 column reinforcing bars, interior / exterior forms, and concrete placements for column lifts 1-5 (out of 8 lifts total).

- Continue installations of Pier 3 column reinforcing bars, interior / exterior forms for lift 6.
- Begin 10-Week full closure of Mosquito Road at the gates from May 27, 2024, through August 2, 2024.

Work scheduled during the Mosquito Road full closure:

- Begin Drainage System #4 manhole construction at north approach, install drainage inlet at concrete lined ditch, and installation of 18" HDPE pipe under Mosquito Road from manhole to drainage inlet at concrete lined ditch.
- Complete installation of Drainage System #5 down pipe anchors adjacent to Mosquito Road.
- Begin Drainage System #6 installation adjacent to Mosquito Road at Pier 3.
- Complete Drainage System #8 adjacent to Mosquito Road and BLM driveway.
- Complete installation of Project time-lapse cameras adjacent to Mosquito Road.
- Continue materials and concrete delivery to Pier 3 column construction.
- Complete roadway and pothole repairs by DOT Maintenance Road Crew on Mosquito Road between Union Ridge and Mosquito Cutoff Road.
- Complete annual maintenance work by DOT Maintenance Bridge Crew on Mosquito Bridge.
- Continue to monitor Pier 2 & 3 inclinometers.
- Continue supplying north Project with batch plant concrete for Pier 3 construction.
- Continue intermittent flagging and traffic control for equipment and materials deliveries.
- Continue receiving Project equipment and materials.
- Continue inspection and maintenance of storm water erosion control measures as needed.
- Continue water quality sampling and testing of Project runoff as needed.



5/03/24 — Pier 2 Lift 1 Column Concrete Placement



5/03/24 — Pier 3 Begin Installation of Lift 1 Exterior Form Panels



5/03/24 —Pre-assembly & Staging of Pier 3 Work Platforms



5/03/24 — View on Bridge Alignment from Abutment 4 (north)

