



EL DORADO COUNTY
DEPARTMENT OF TRANSPORTATION
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Mosquito Road Bridge Replacement Project
Department of Transportation Construction Update #5
August 8, 2023

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

June 2023

- Began Abutment 1 footing excavation.
- Continued Pier 2 access trestle construction.
- Continued Pier 2 structure excavation / ground anchor & soil nail installations / shotcrete for permanent retaining walls (rows 6 to 4).
- Completed Pier 2 architectural shotcrete treatment on permanent retaining walls (rows 11 to 6).
- Continued Pier 3 structure excavation / ground anchor & soil nail installations / shotcrete for permanent retaining walls (rows 6 to 5).
- Performed Pier 3 hard rock blasting for excavation of hard rock (rows 5 to 4).
- Began Abutment 4 retaining wall (RW) section 1 construction.
- Continued 10-Week full closure of Mosquito Road at the gates from May 30, 2023 through August 6, 2023.
 - Work Performed During the full closure this month:
 - Continued Abutment 4 retaining wall construction & structure backfill.
 - Completed trimming North slopes and placement of rock slope protection.
 - Began Drainage concrete lined ditch from Drainage System #5 outfall to Pier 3 trestle access.
 - Continued North tie-in embankment fill.
 - Completed excavation for concrete and rock lined drainage ditches adjacent to north Mosquito Road.
 - DOT Road Maintenance Crew performed pothole repairs.
- Completed switchback improvements on Mosquito Road south of the Project for semi-truck/trailer access.
- Continued site inspections for erosion control compliance.
- Continued maintenance of storm water erosion control measures for job site entrances and Pier retaining wall excavations.
- Continued site wide dust control and roadway sweeping as needed.
- Monitored Pier 2 & 3 inclinometers – no slope movement above retaining walls.
- Continued concrete supply to north shotcrete operation and retaining wall construction from batch plant.



6/02/23 — Pier 2 Temporary Trestle Construction Excavation



6/02/23 — Abutment 4 RW 4 Stage 1 Footing Rock



6/13/23 – North Rock Slope Protection Installation



6/13/23 - Pier 3 Rows 6 RW Progress / Shotcrete



6/19/23 – Abutment 4 RW 4 Stage 1 Stem Rebar Installation



6/28/23 - Pier 2 Rows 11-6 RW Architectural Shotcrete



6/29/23 – Abutment 4 RW 4 Stage 1 Stem Forms Stripped



6/29/23 – South Switchback Improvements

July 2023

- Completed Abutment 1 footing excavation.
- Completed Abutment 1 Cast in Drilled Hole (CIDH) pile foundation.
- Completed Pier 2 access trestle construction.
- Created Pier 2 access trestle temporary soil nail installation bench.

- Continued Pier 2 structure excavation / ground anchor & soil nail installations / shotcrete for permanent retaining walls (rows 4 to 2).
- Continued Pier 3 structure excavation / ground anchor & soil nail installations / shotcrete for permanent retaining walls (rows 5 to 3).
- Performed Pier 3 hard rock blasting for excavation of hard rock (rows 3 to 1).
- Began Pier 3 architectural shotcrete treatment on permanent retaining walls (rows 13 to 5).
- Continued structure backfill for Abutment 4 and Retaining Wall 4 sections 1 and 2.
- Continued construction of Retaining Wall 4 sections 2 and 3.
- Continued 10-Week full closure of Mosquito Road at the gates from May 30, 2023 through August 6, 2023.

Work Performed During the full closure this month:

- Continued Abutment 4 retaining wall construction & structure backfill.
- Completed Drainage System #5.
- Completed concrete lined ditch from Drainage System #5 outfall to Pier 3 trestle access.
- Continued North tie-in embankment fill.
- Continued concrete and rock lined drainage ditches adjacent to north Mosquito Road.
- Completed installation of metal beam guardrail at north Mosquito Road.
- Completed annual maintenance work by DOT Maintenance Bridge Crew on Mosquito Bridge.
- DOT Road Maintenance Crew performed pothole repairs.
- Continued site inspections for erosion control compliance.
- Continued maintenance of storm water erosion control measures at Pier retaining wall excavations.
- Continued site wide dust control and roadway sweeping as needed.
- Monitored Pier 2 & 3 inclinometers – no slope movement above retaining walls.
- Continued concrete supply to north shotcrete operation, retaining wall construction, and concrete lined ditches from batch plant.



7/05/23 – South Trestle Bracing Installation



7/06/23 - Abutment 4 RW 4 Stage 2 Footing Pour



7/06/23 – Drainage System #5 Outfall Concrete Pour



7/19/23 – Abutment 1 Foundation CIDH Pile Installation



7/21/23 - Pier Row 3 Hard Rock Blasting Preparation



7/31/23 – North Metal Guardrail Installation

August - December 2023 Anticipated Work

- 213 of 700 (30.4%) Project working days complete through the update date.
- Open road closure by end of day on August 6, 2023.
- Complete construction of Abutment 1 and retaining walls.
- Continue embankment fill for south approach to Abutment 1.
- Complete Pier 2 South temporary access soil nail wall.
- Complete Pier 2 structure excavation / ground anchor & soil nail installations / shotcrete for permanent retaining walls.
- Complete Pier 2 ground anchor & soil nail walls drainage.
- Complete Pier 2 soldier pile retaining walls.
- Begin Pier 2 36" diameter x 75'+/- depth CIDH piles for the bridge foundation.
- Complete Pier 3 structure excavation (rock) / ground anchor & soil nail installations / shotcrete for permanent retaining walls.
- Complete Pier 3 retaining wall architectural treatment.
- Begin Pier 3 soldier pile retaining walls.
- Continue to monitor Pier 2 & 3 inclinometers.
- Complete Abutment 4 retaining wall construction, structure backfill, and roadway tie-in.
- Complete 10-Week full closure of Mosquito Road at the gates from May 30, 2023 through August 6, 2023.

Complete closure work for August 7, 2023 road opening:

- Complete concrete and rock lined drainage ditches adjacent to north Mosquito Road.
- Complete road patching at drainage ditch.
- Complete metal beam guardrail adjacent to Mosquito Road north.
- Complete miscellaneous roadway cleanup and safety measures.
- Install cautionary road signs at Trail Gulch and Rock Creek Road.
- Complete erosion control measures for winter – hydroseed, silt fence, fiber rolls, construction entrances, access road armoring, temporary drainage ditches, access slope stabilization, and temporary drainage outfalls.
- Continue supplying north Project with batch plant concrete.

- Continue intermittent flagging and traffic control for equipment and materials deliveries.
- Continue receiving Project equipment and materials.
- Continue maintenance of storm water erosion control measures.
- Continue water quality sampling and testing of Project runoff.
- Intermittent weekend, night, and/or school break road closures for large concrete pours.



8/01/23 — North Metal Guardrail System Complete



8/01/23 — Pier 3 Rows 13-5 Architectural Shotcrete



8/02/23 — Pier 2 Row 11-6 Architectural Concrete



8/02/23 — Abutment 4 RW 4 Structure Backfill



8/03/23 — North Concrete Lined Ditch Progress



8/04/23 — Pier 3 Row 3 Post Blast Rock Excavation



8/04/23 — Pier 2 Trestle Complete Looking North



8/04/23 — RW 4 Stage 3 Stem Rebar Installation