GeoStabilization International

Annual Geotechnical Engineering Conference

Trevor Ames, P. Eng.

Nov 2024

Confidential – Not for Circulation







INTRODUCTION

Trevor Ames, P. Eng.











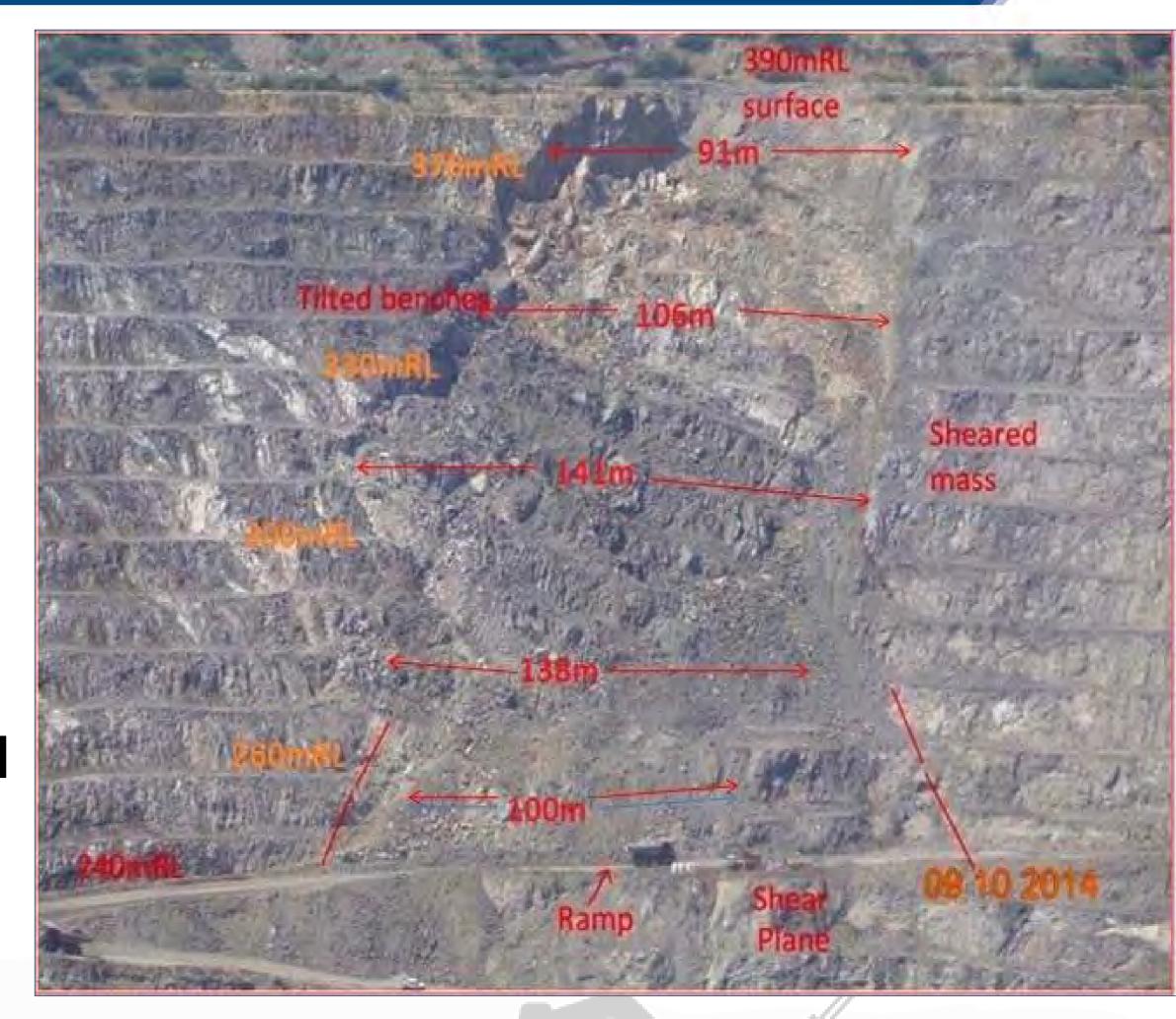




ABOUT GSI®

- √ 70+ experienced crews
- ✓ Lowest EMR Rate in the industry at 0.62
- ✓ Design-Build Geotechnical Contractor
 - ✓ Exclusively on GeoHazard mitigation.
 - ✓ 58 Engineers.
- Slope Stability
- Rockfalls / Rockslides
- Portal Stability
- Dam resurfacing
- Landslides
- Bridge Repairs

- Retaining Walls
- Sink Holes
- Settlement Control
- Soil Stabilization
- Grouting



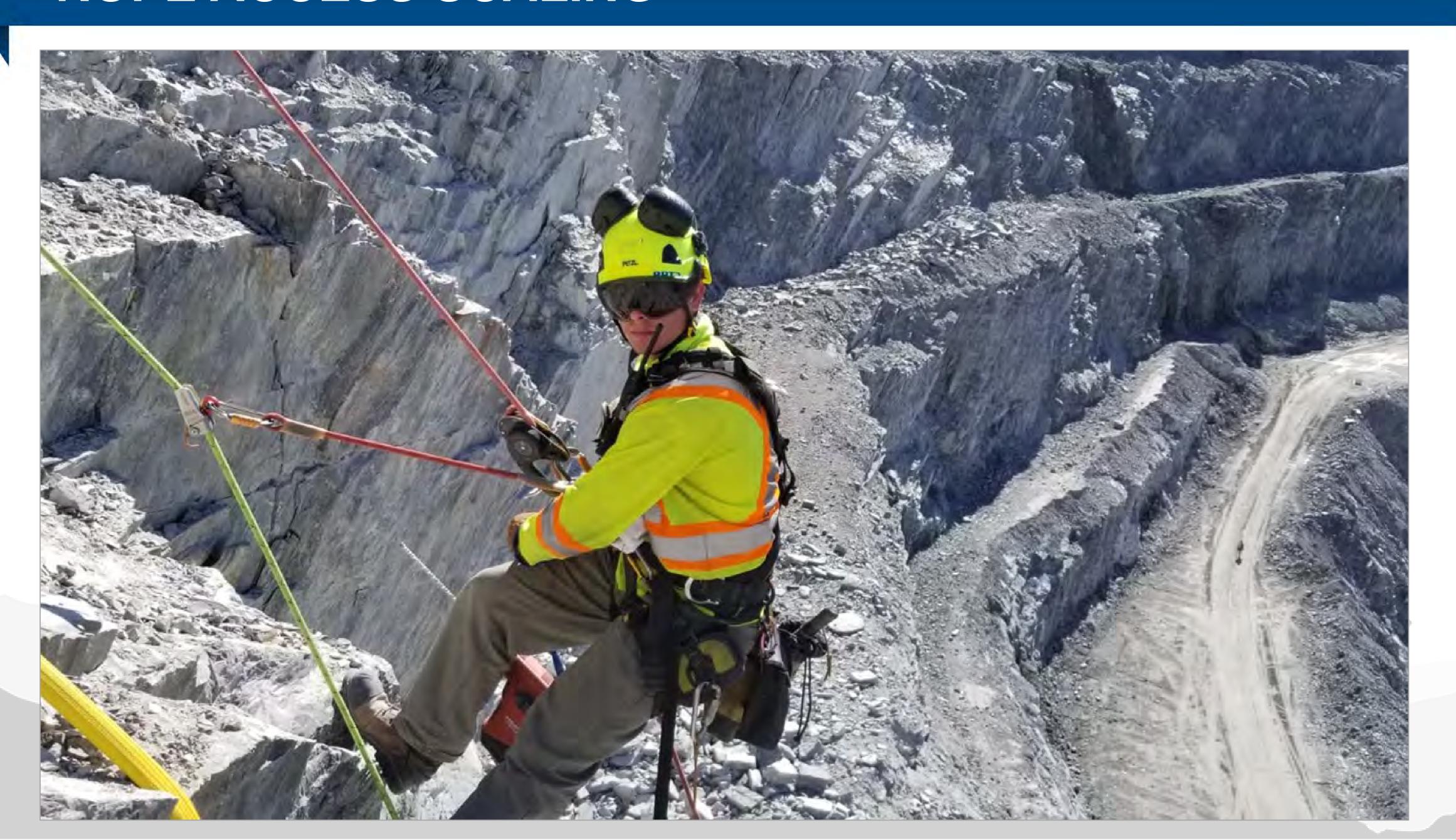
AGENDA

1 GSI Overview and Relevant Services

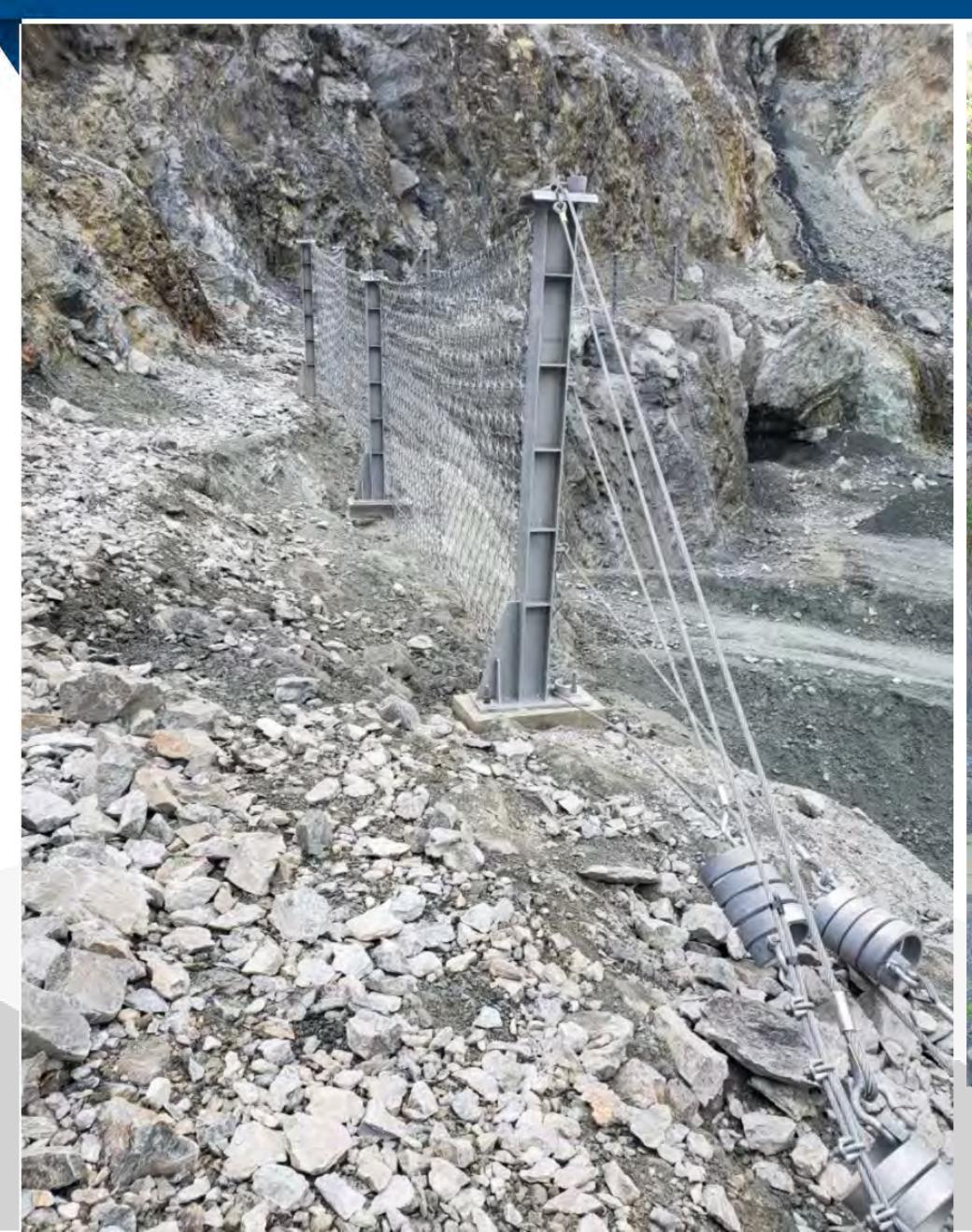
2 Texas Quarry – ENR Project Award

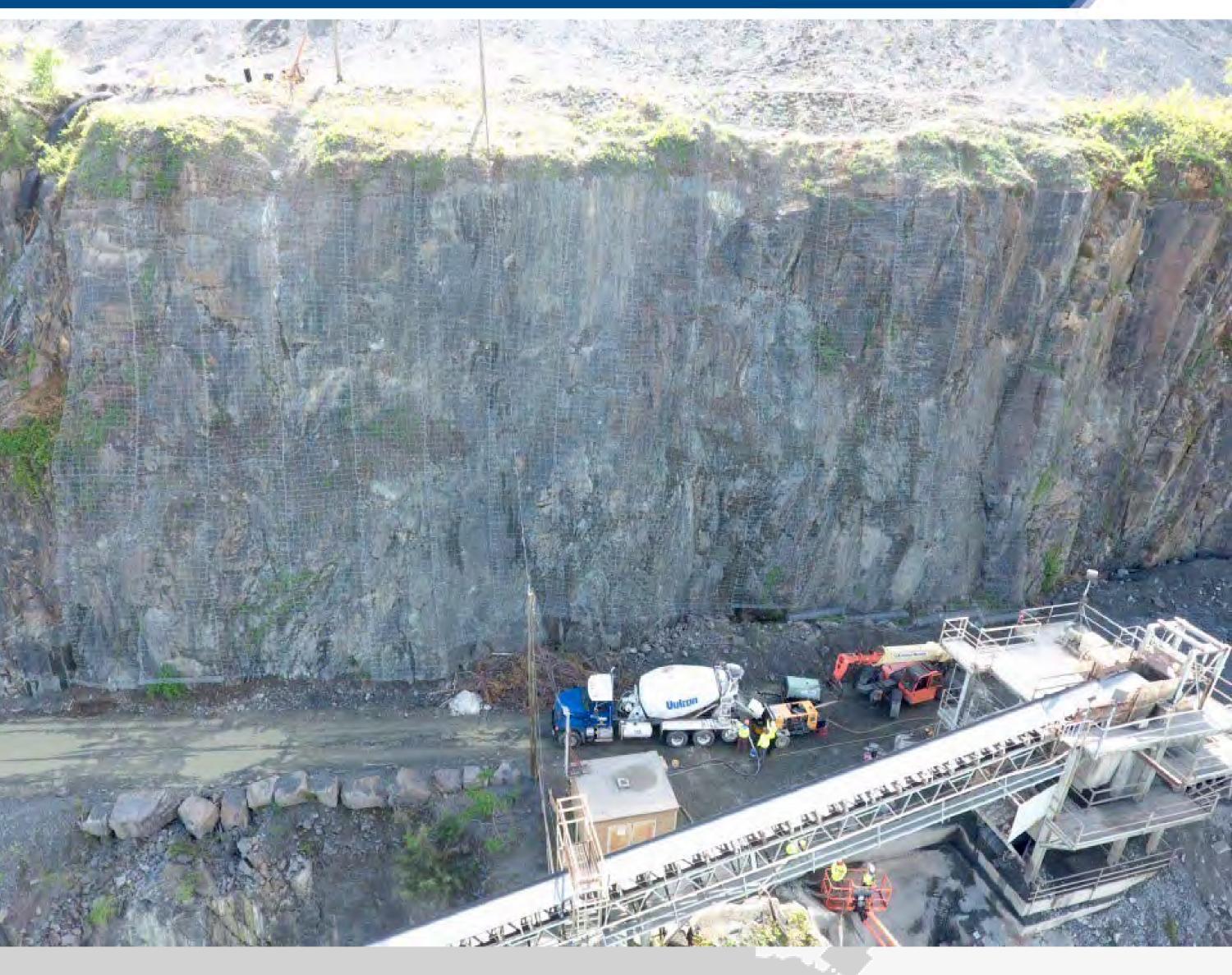
3 Questions and Answers

ROPE ACCESS SCALING



ROCKFALL BARRIER AND DRAPE MESH



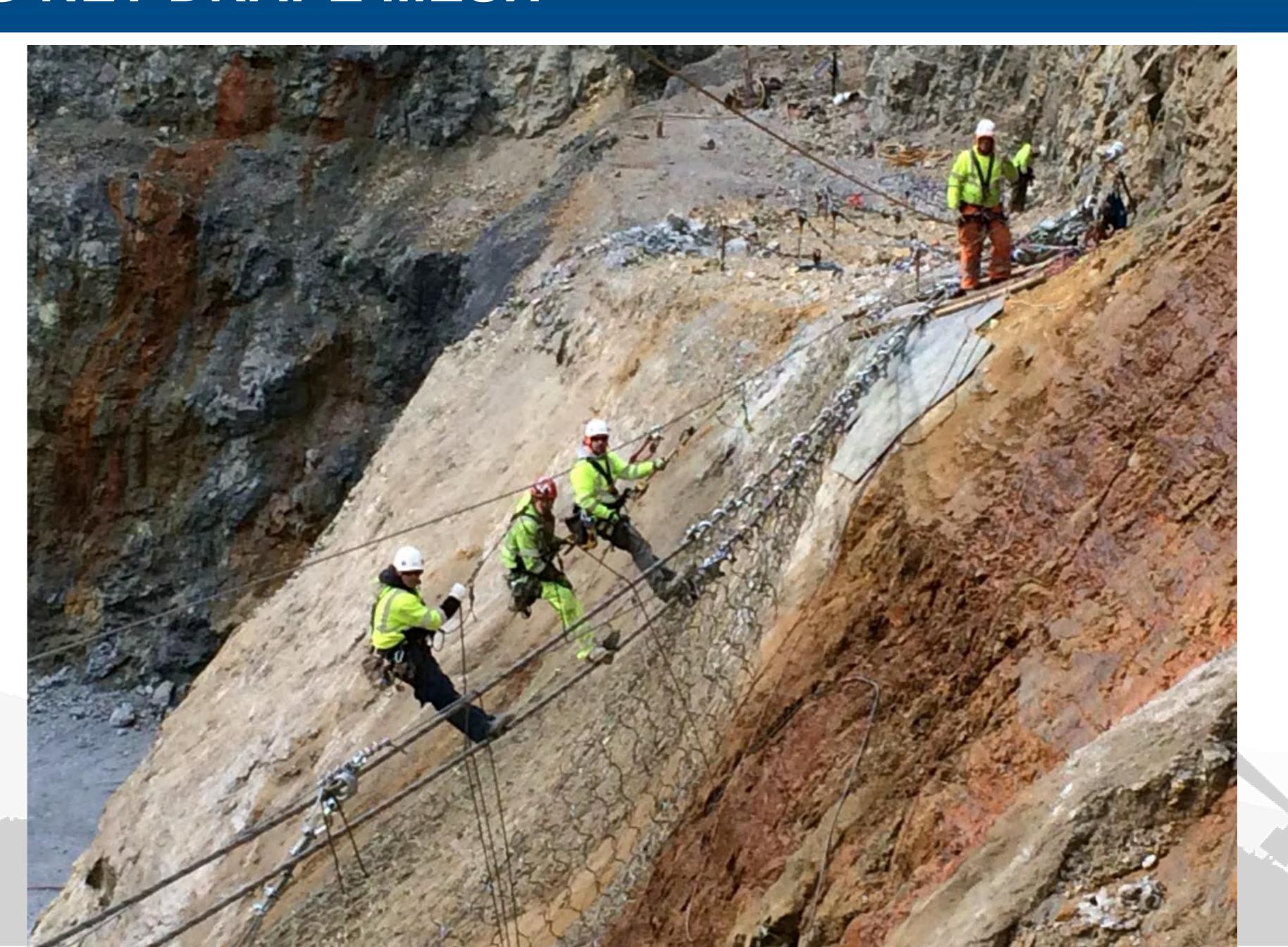


PORTAL BREAK THROUGH - ATTENUATOR / BARRIER



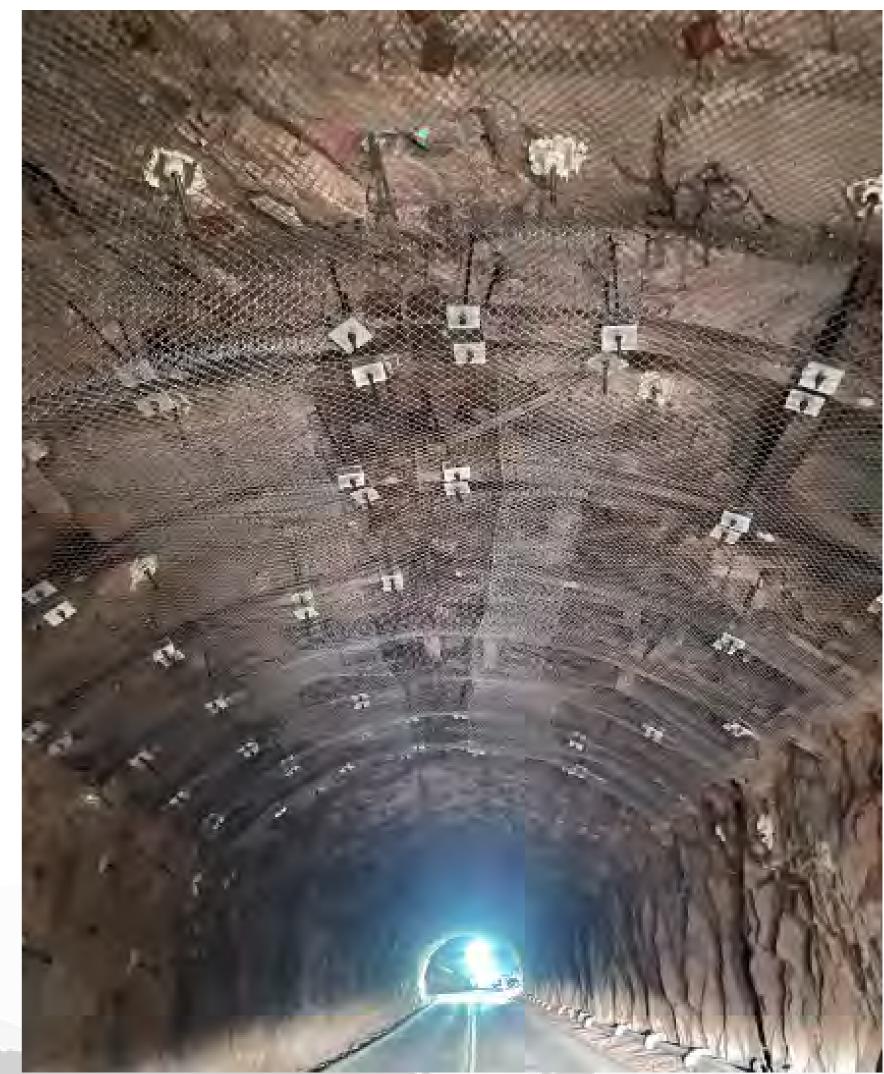


RING NET DRAPE MESH



TUNNEL REHAB





PORTAL REPAIR – NEAR COMPLETION

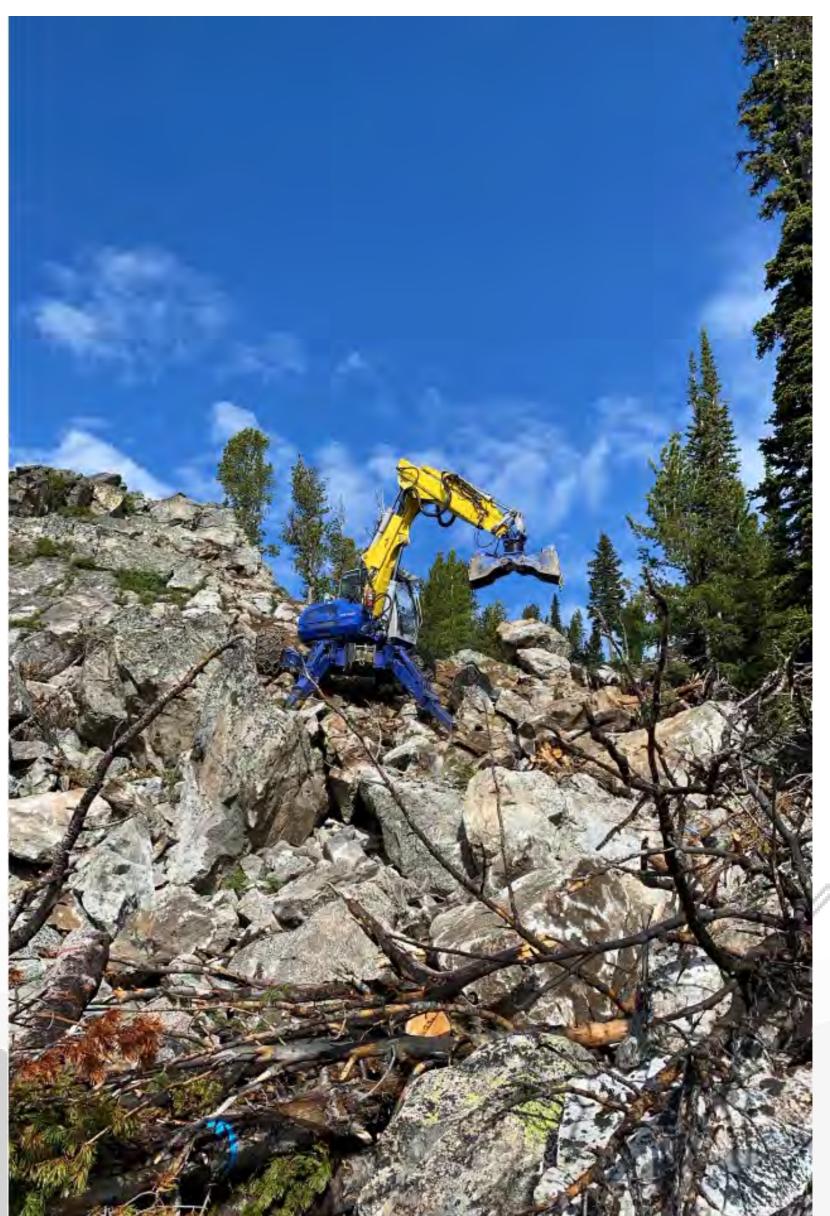


PORTAL REPAIR

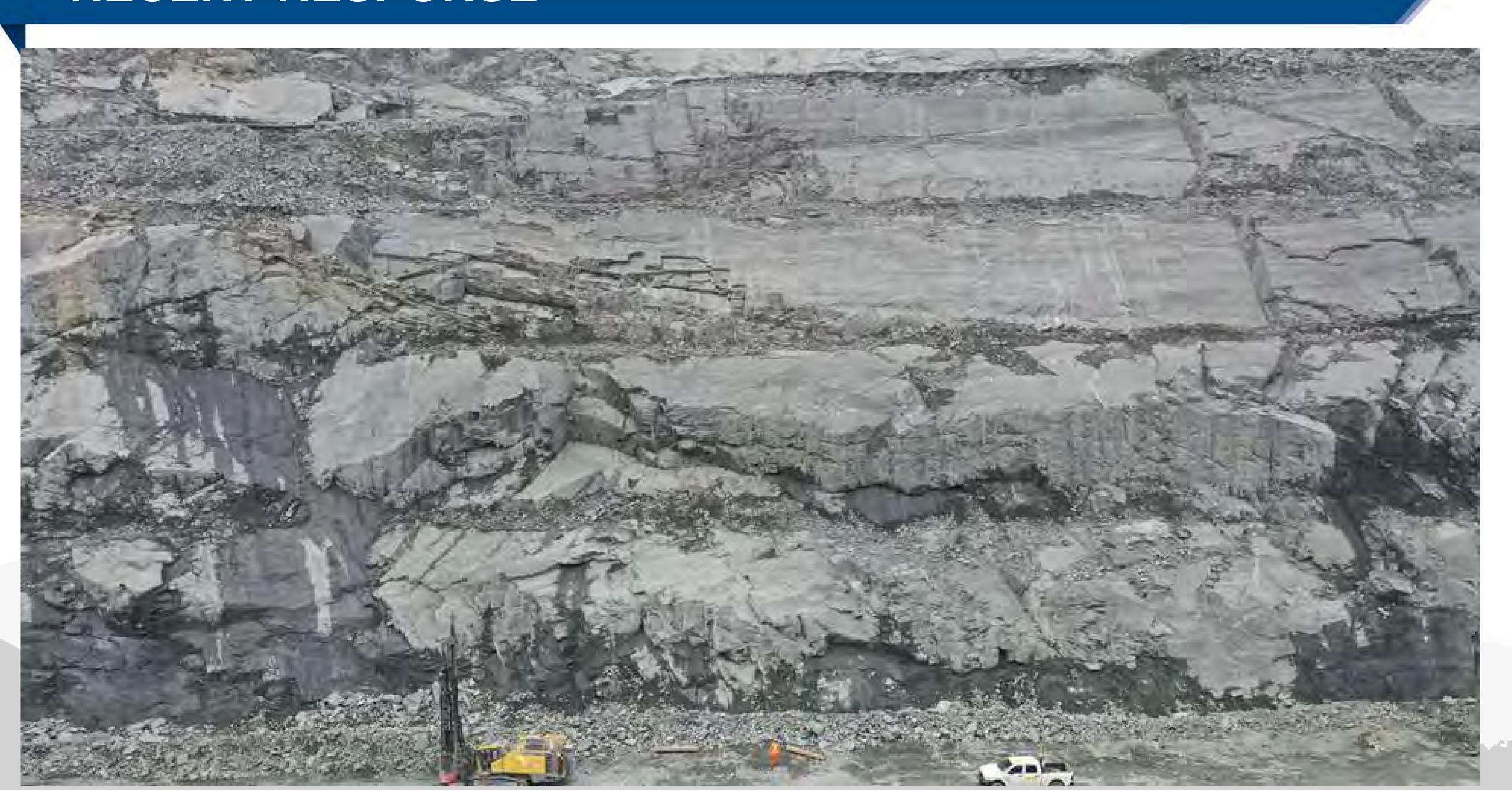


SPIDER DRILL / EXCAVATOR





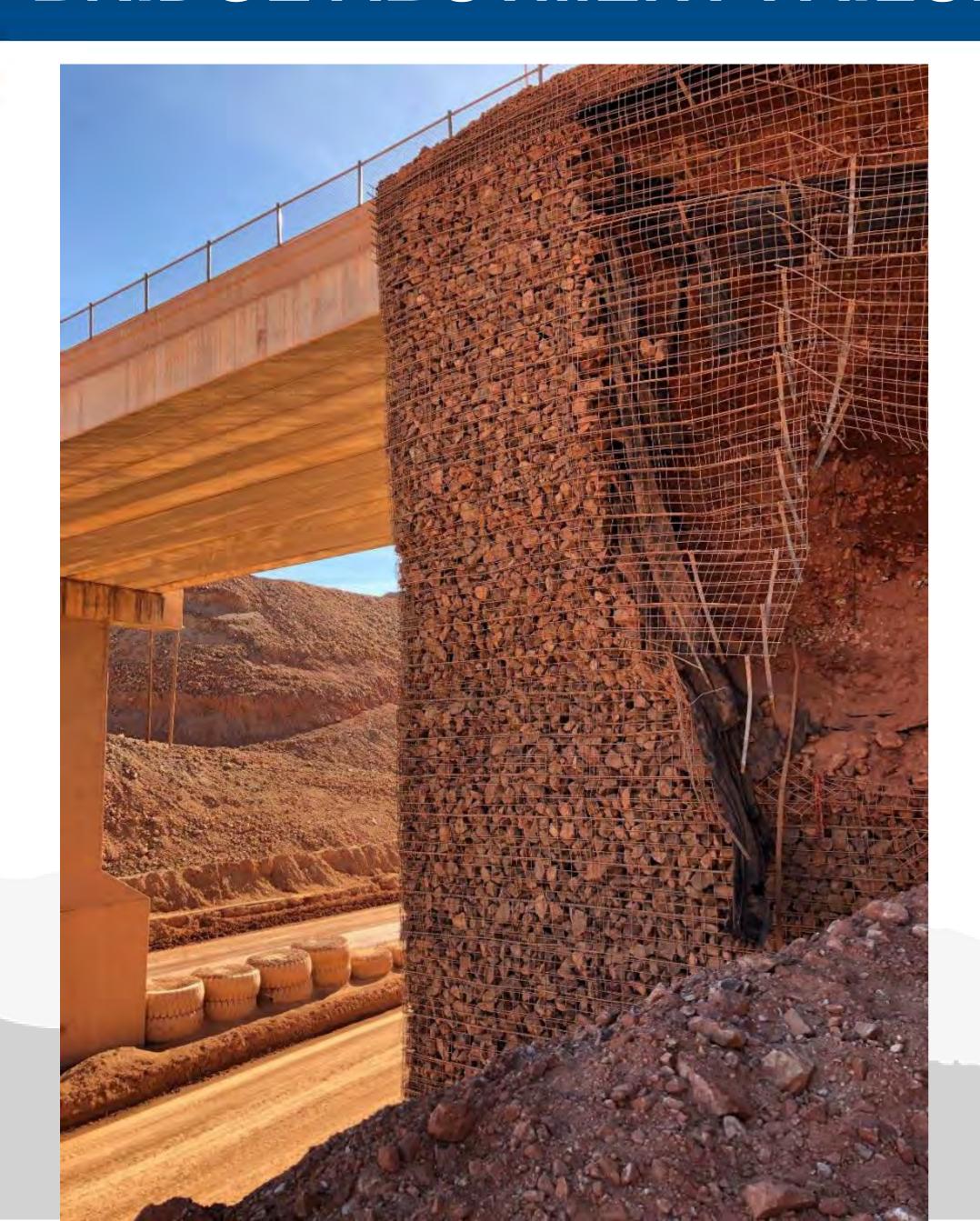
RECENT RESPONSE

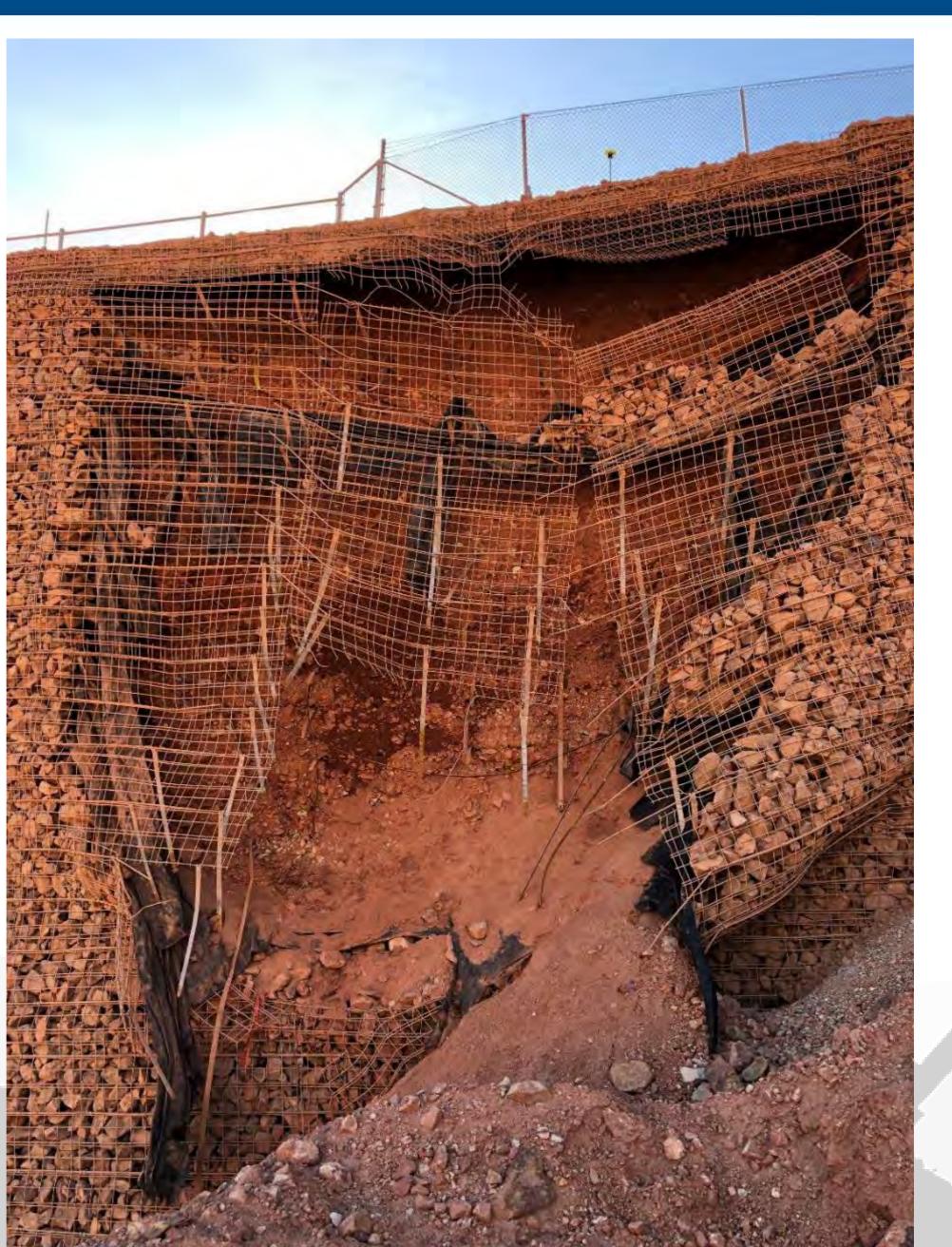


BENCH FAILURE

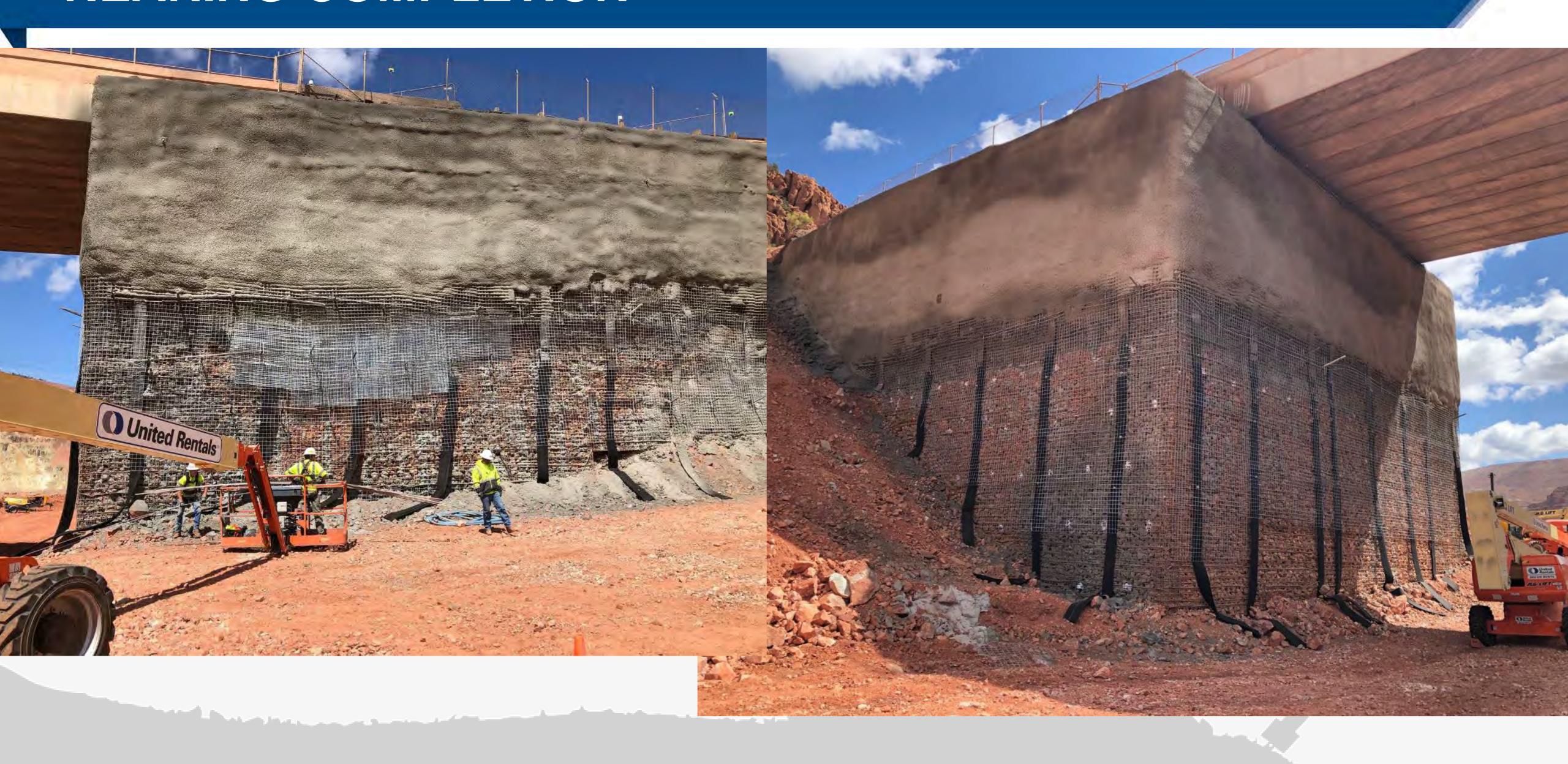


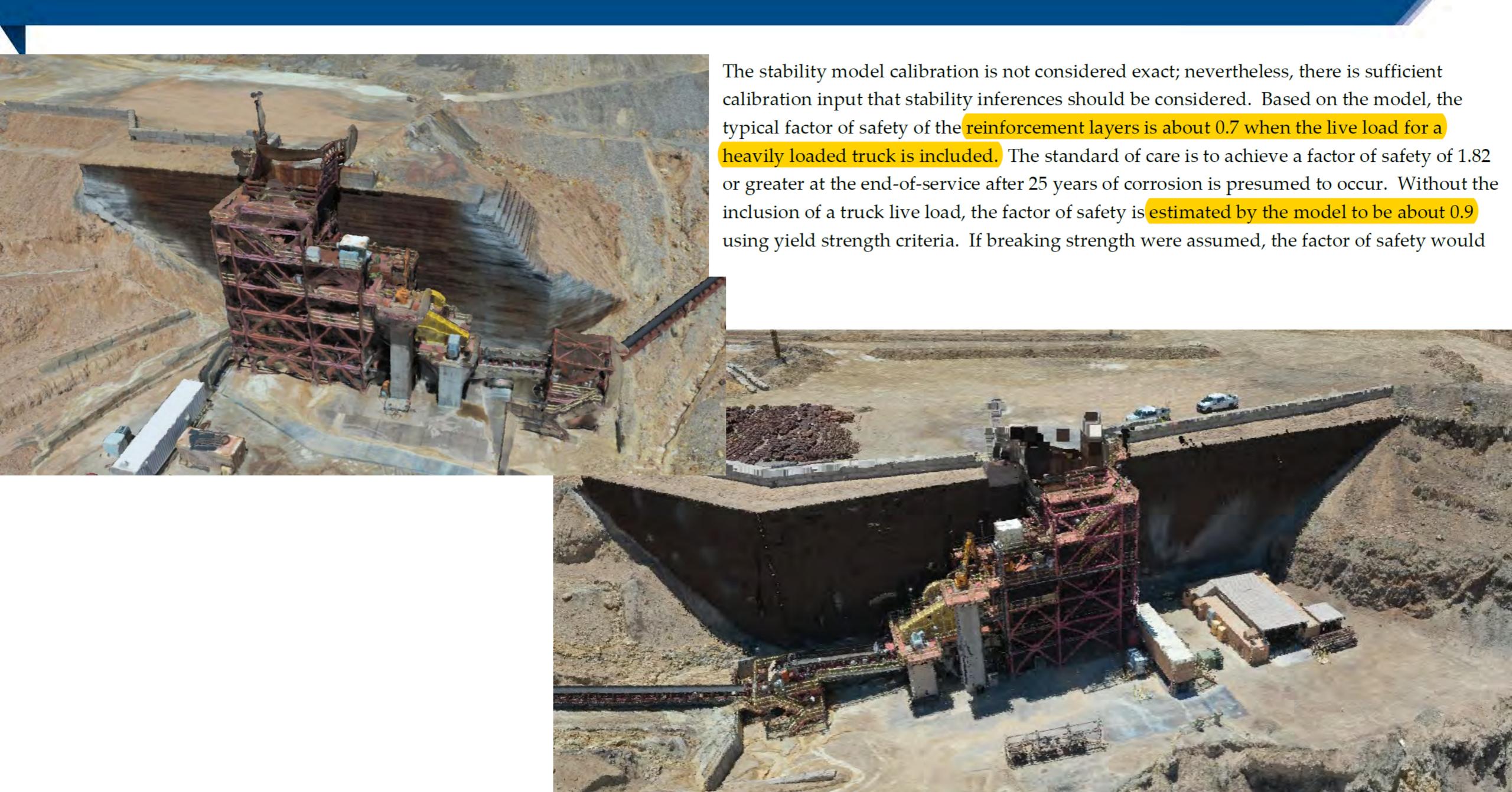
BRIDGE ABUTMENT FAILURE

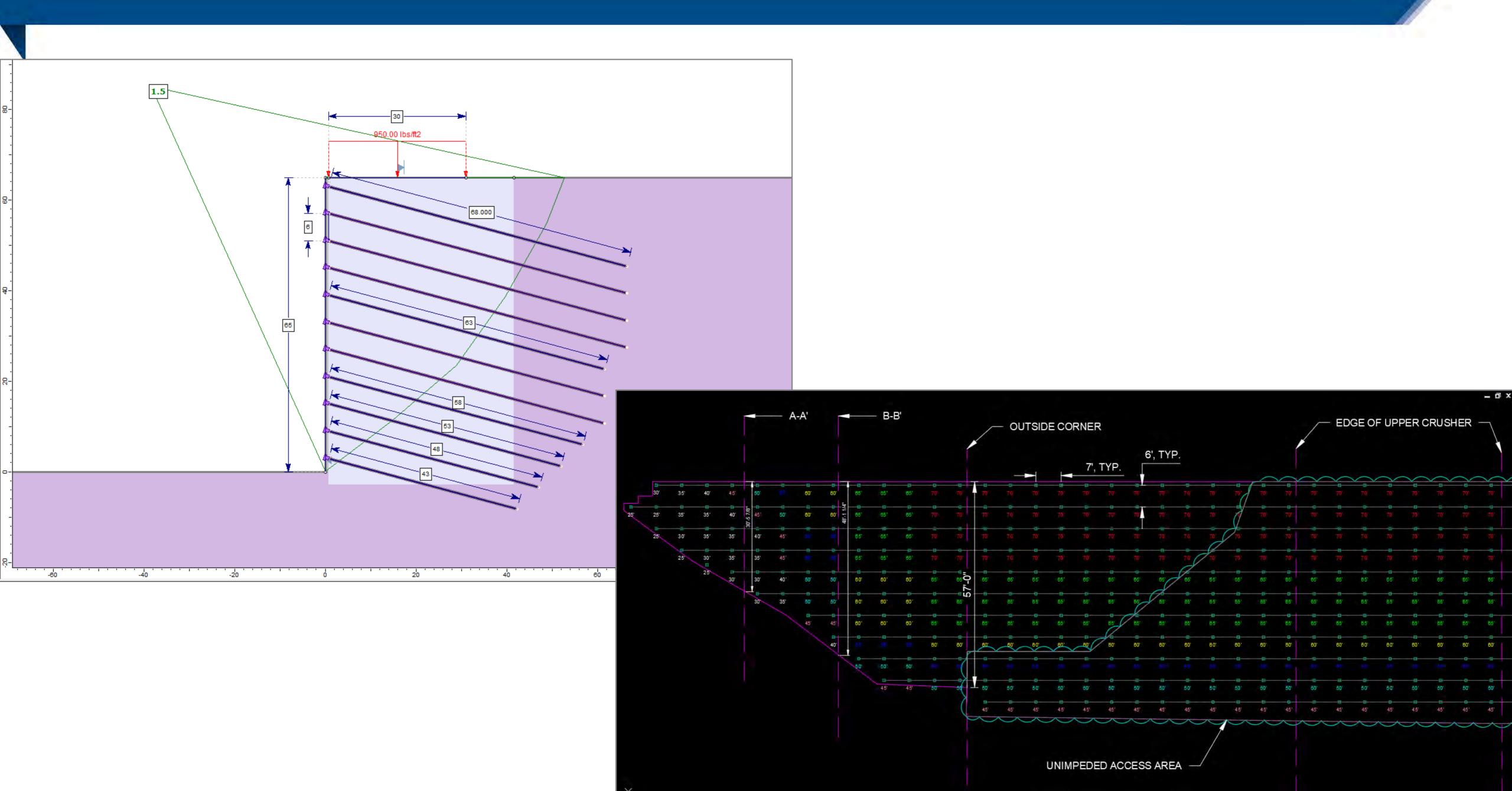




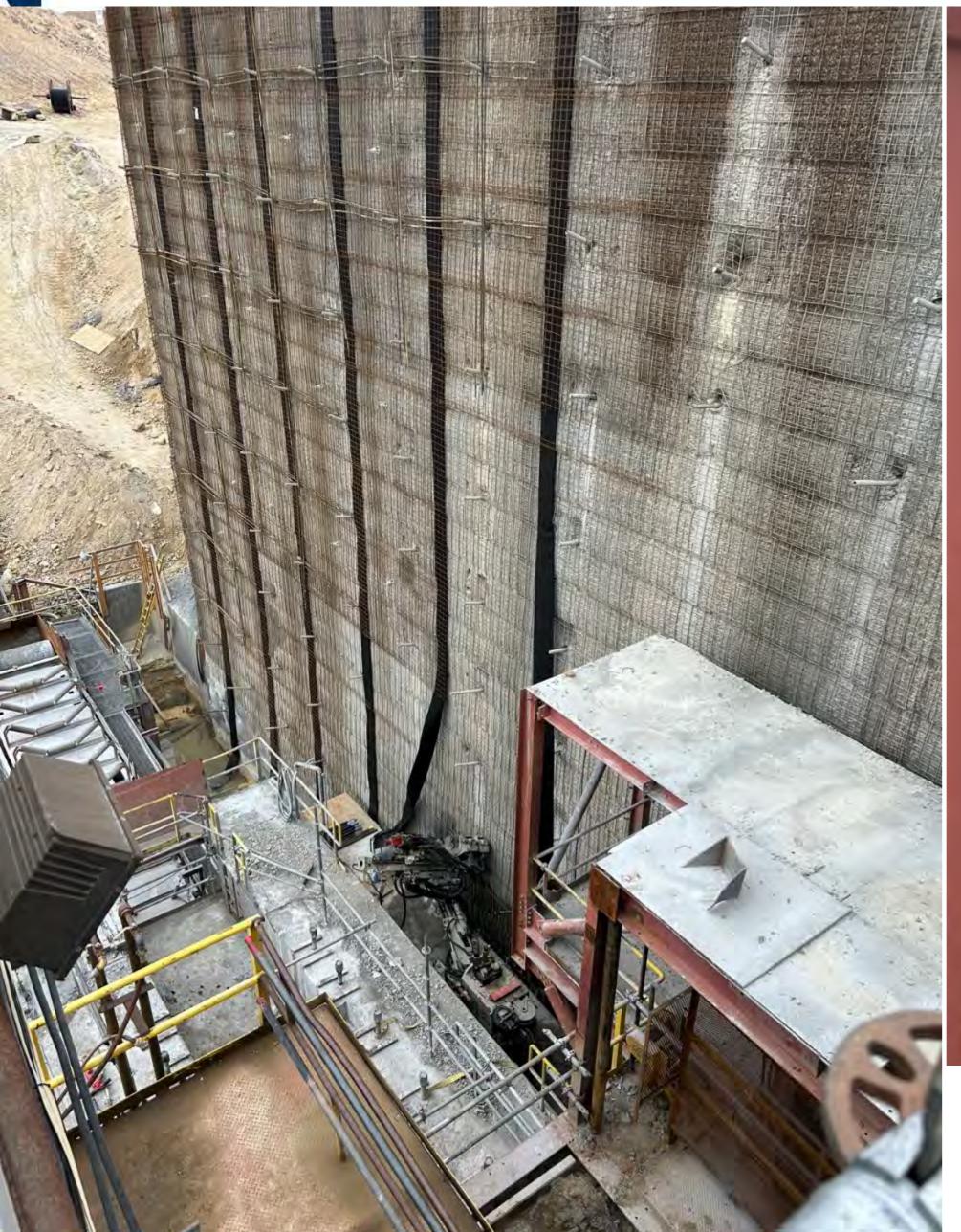
NEARING COMPLETION

















DECLINE RAMPS



RETAINING WALLS / HEADWALL





SOIL NAIL WALL FOR DECLINE RAMP



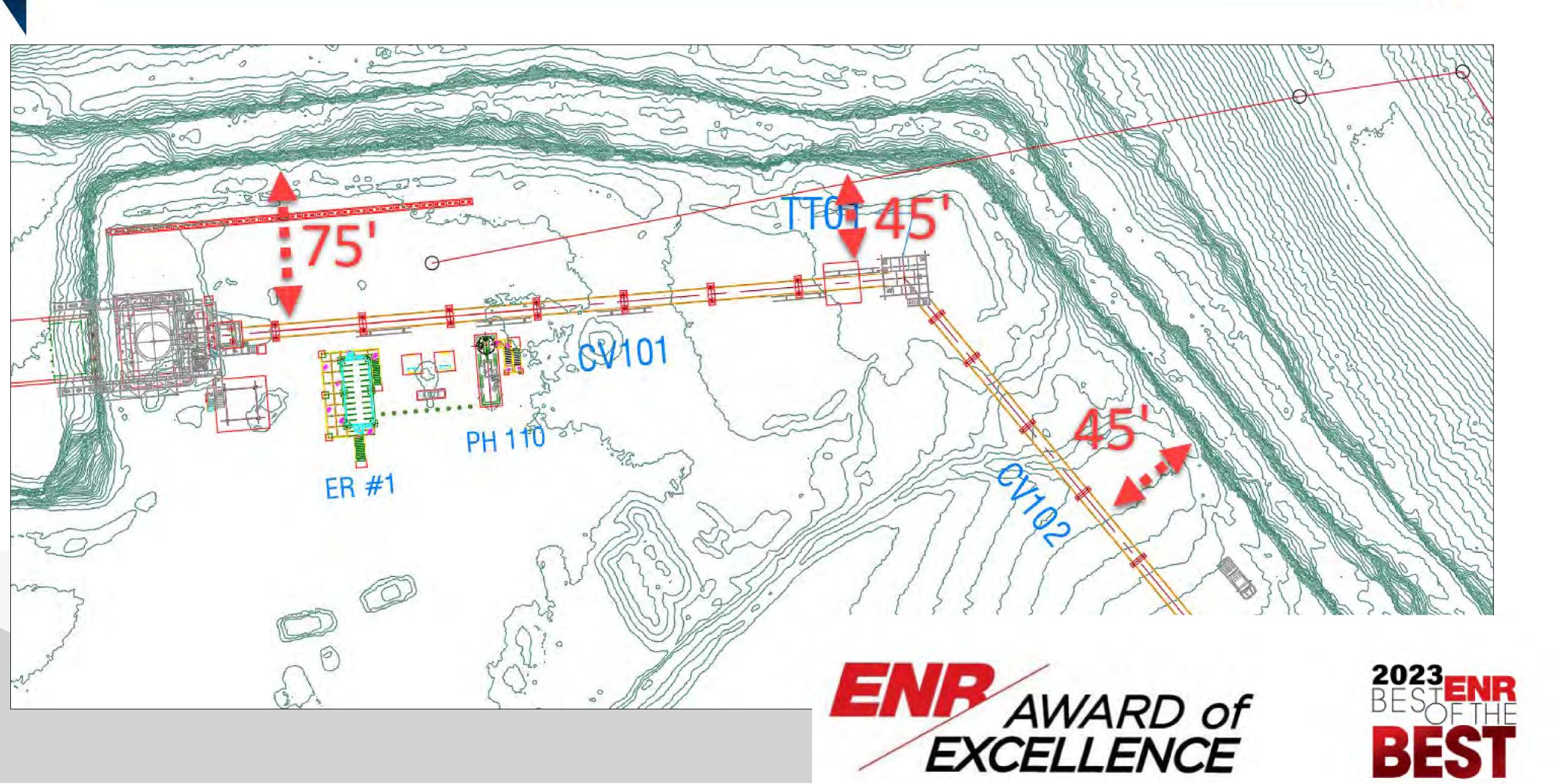
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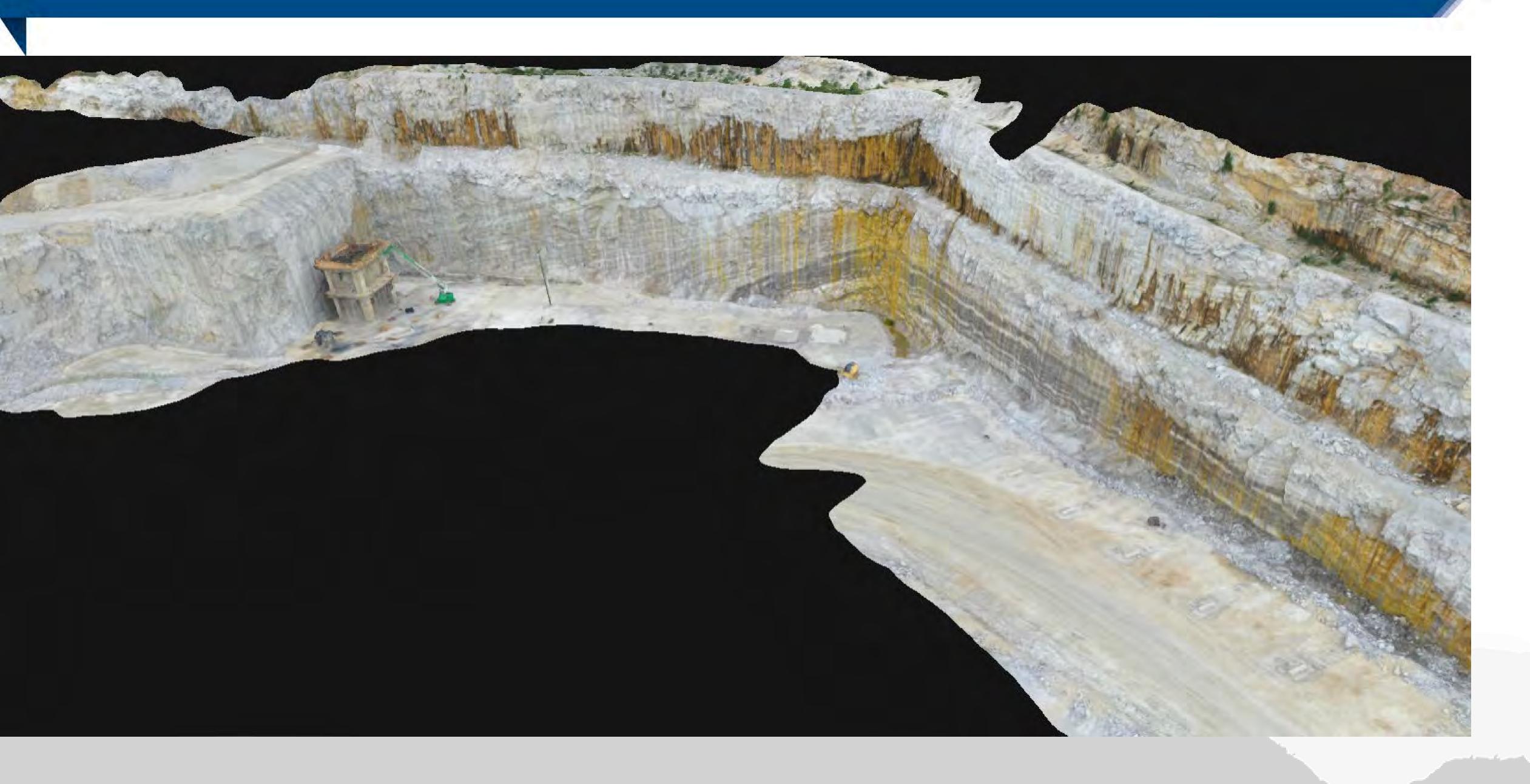
2 Texas Quarry – ENR Project Award

3 Questions and Answers

NEW PRIMARY CRUSHER STATION



NEW PRIMARY CRUSHER STATION



INITIAL SITE VISIT

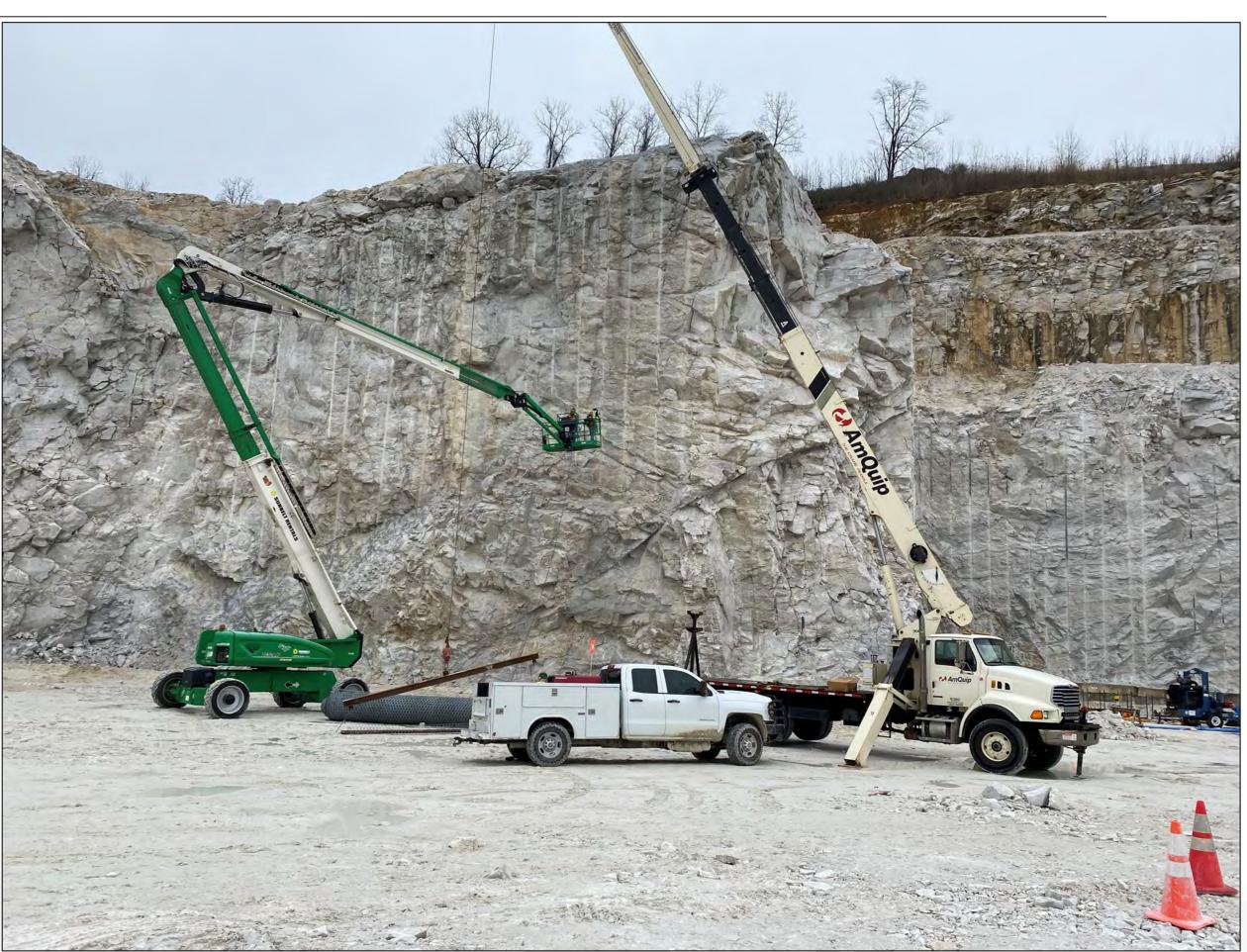


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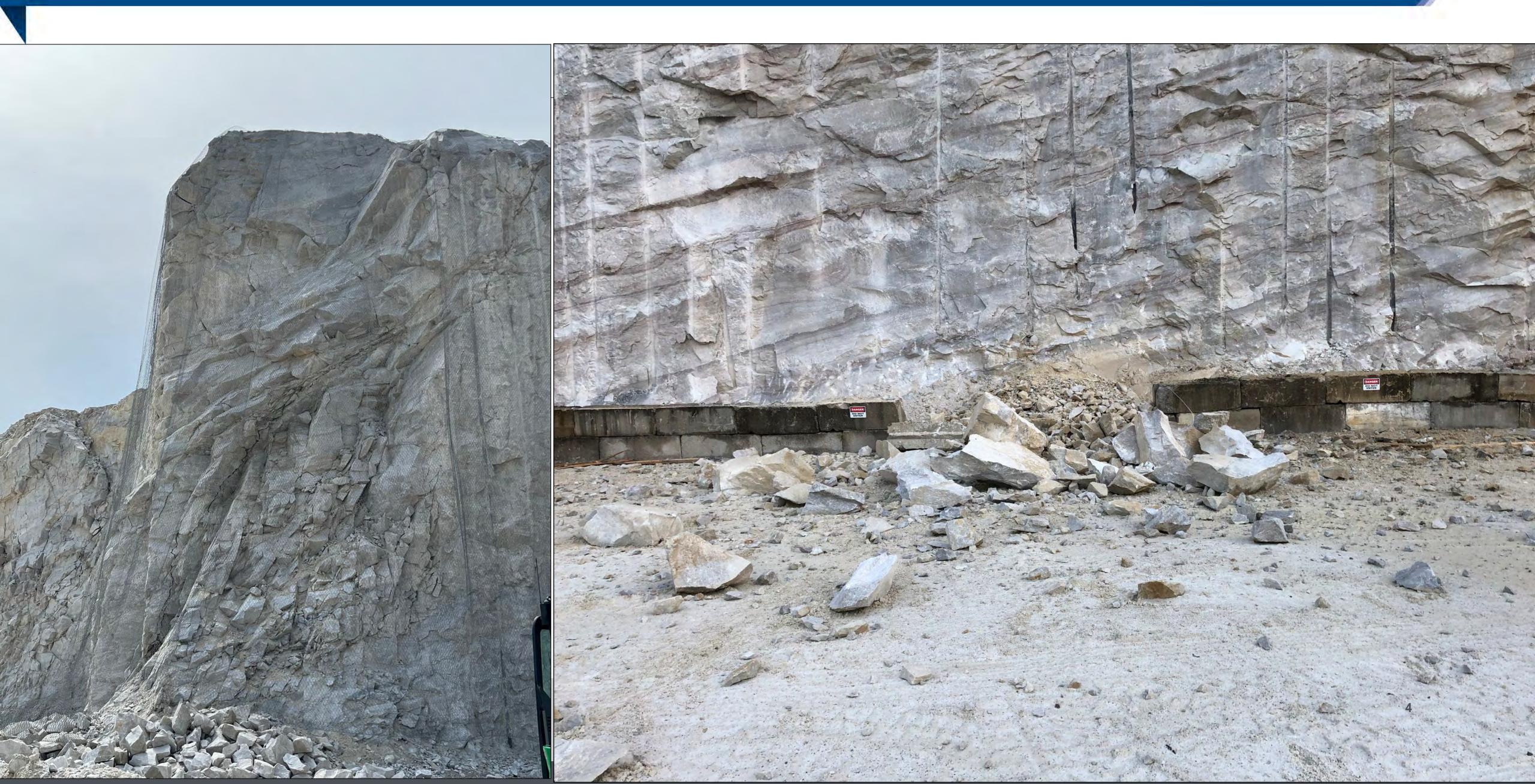
INITIAL DRAPE MESH



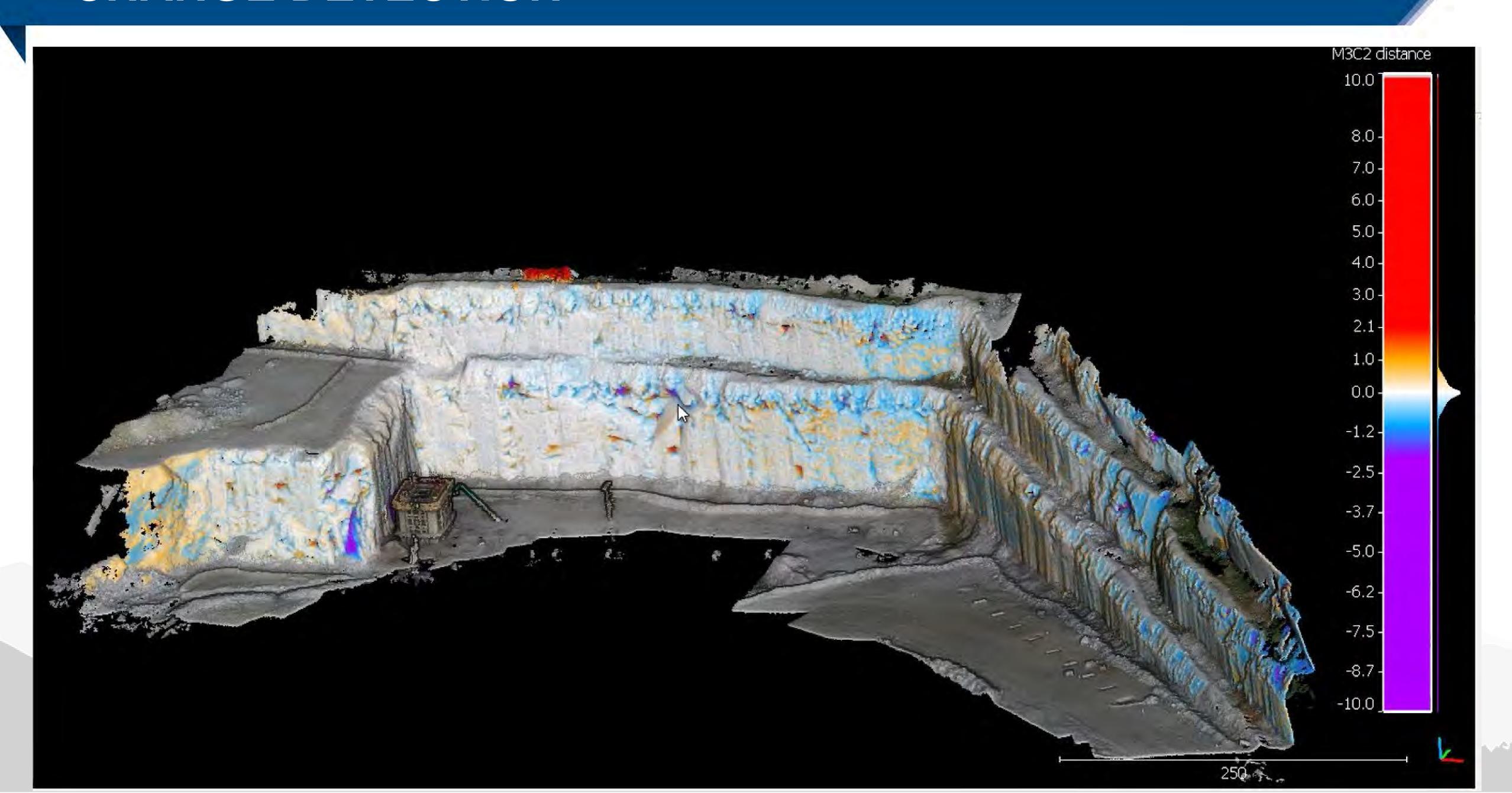


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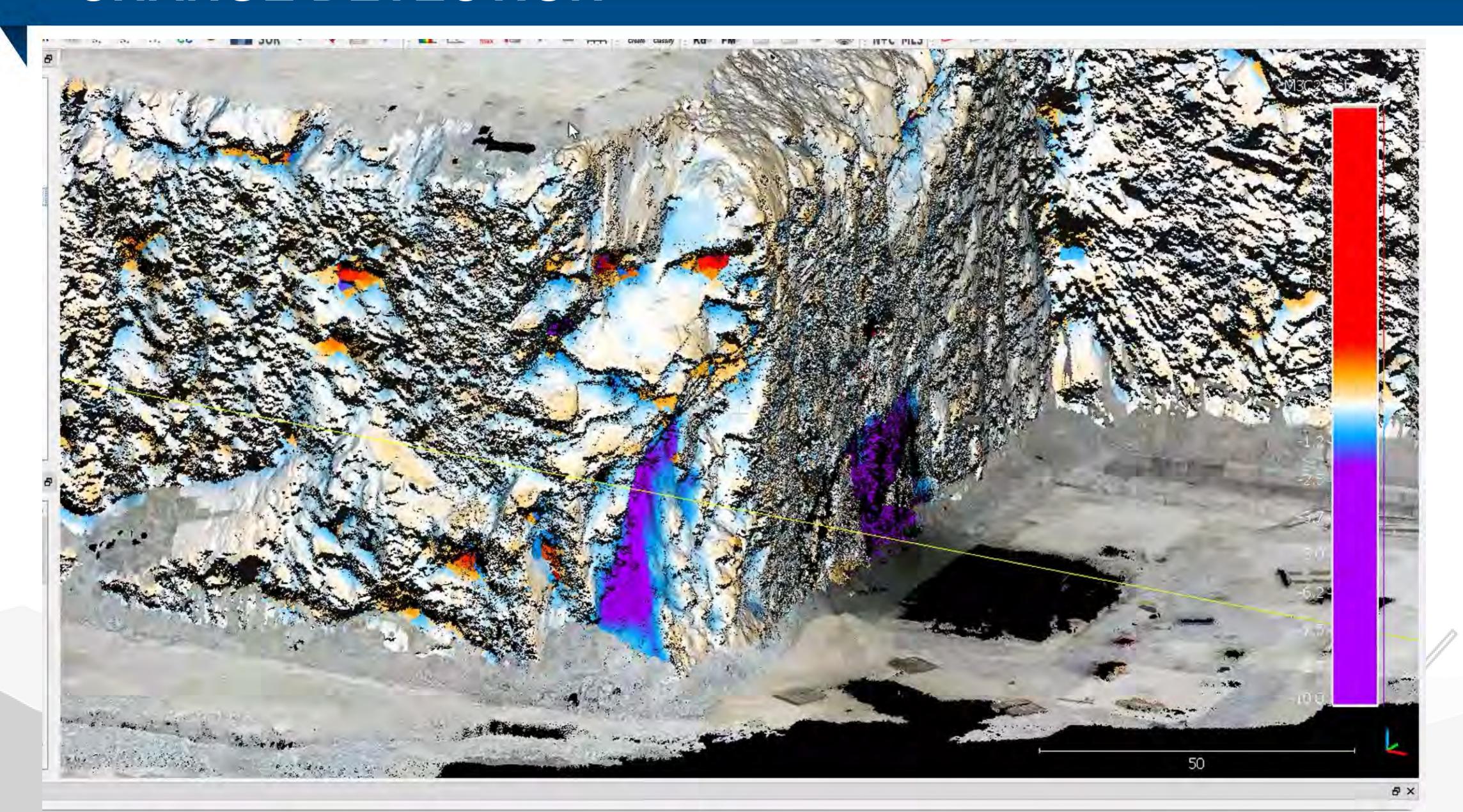
NEW PRIMARY CRUSHER STATION



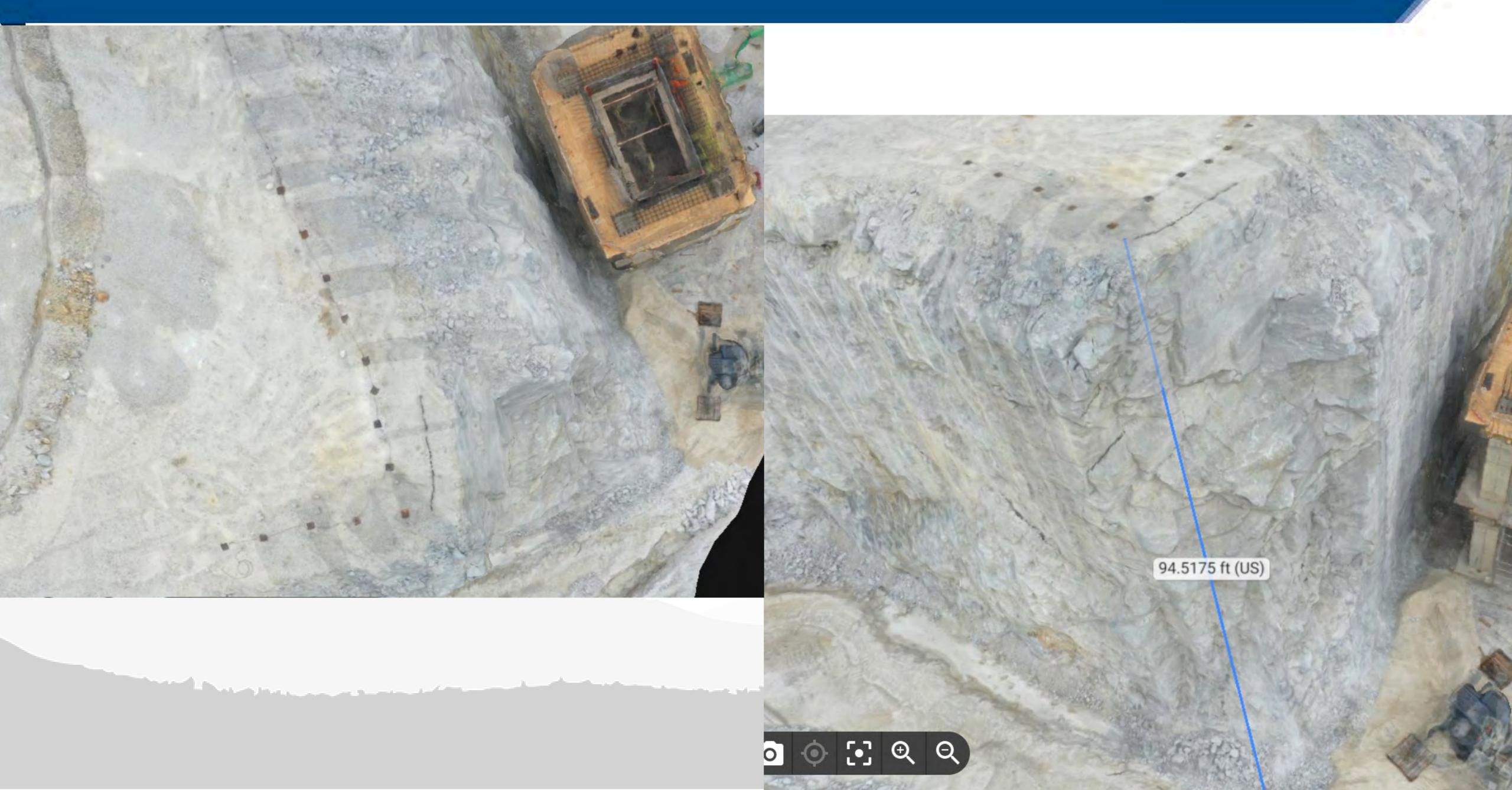
CHANGE DETECTION



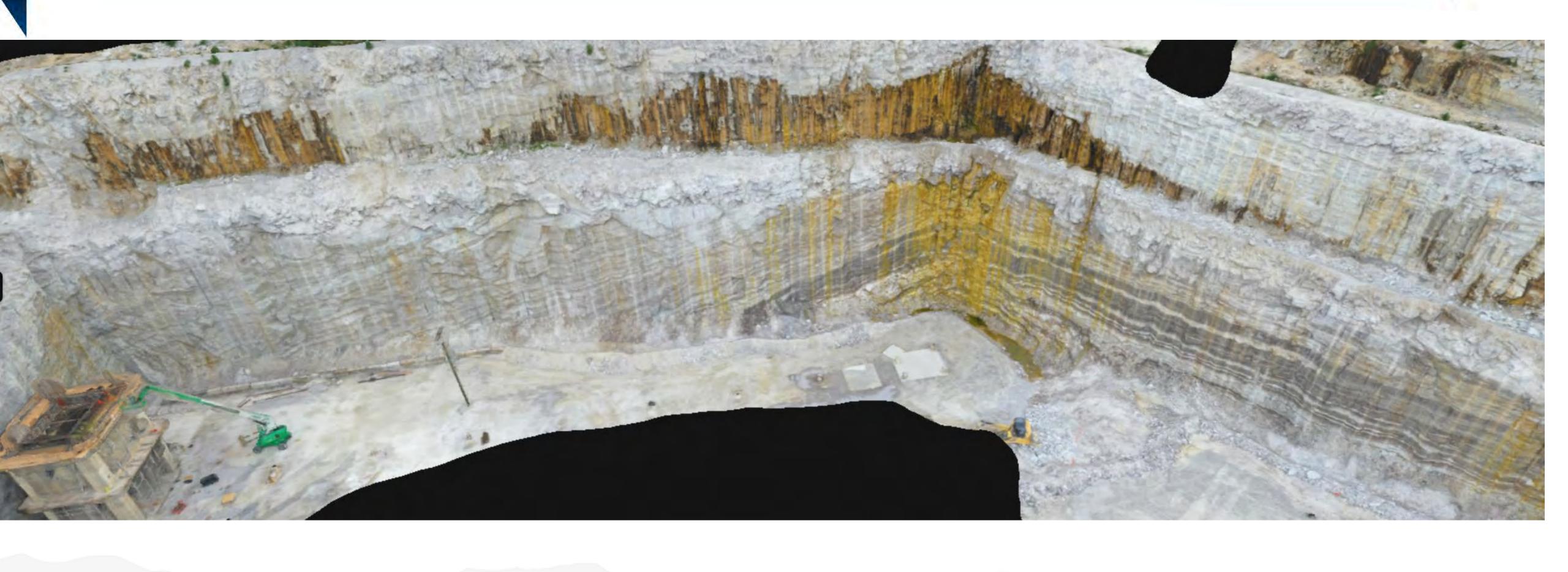
CHANGE DETECTION



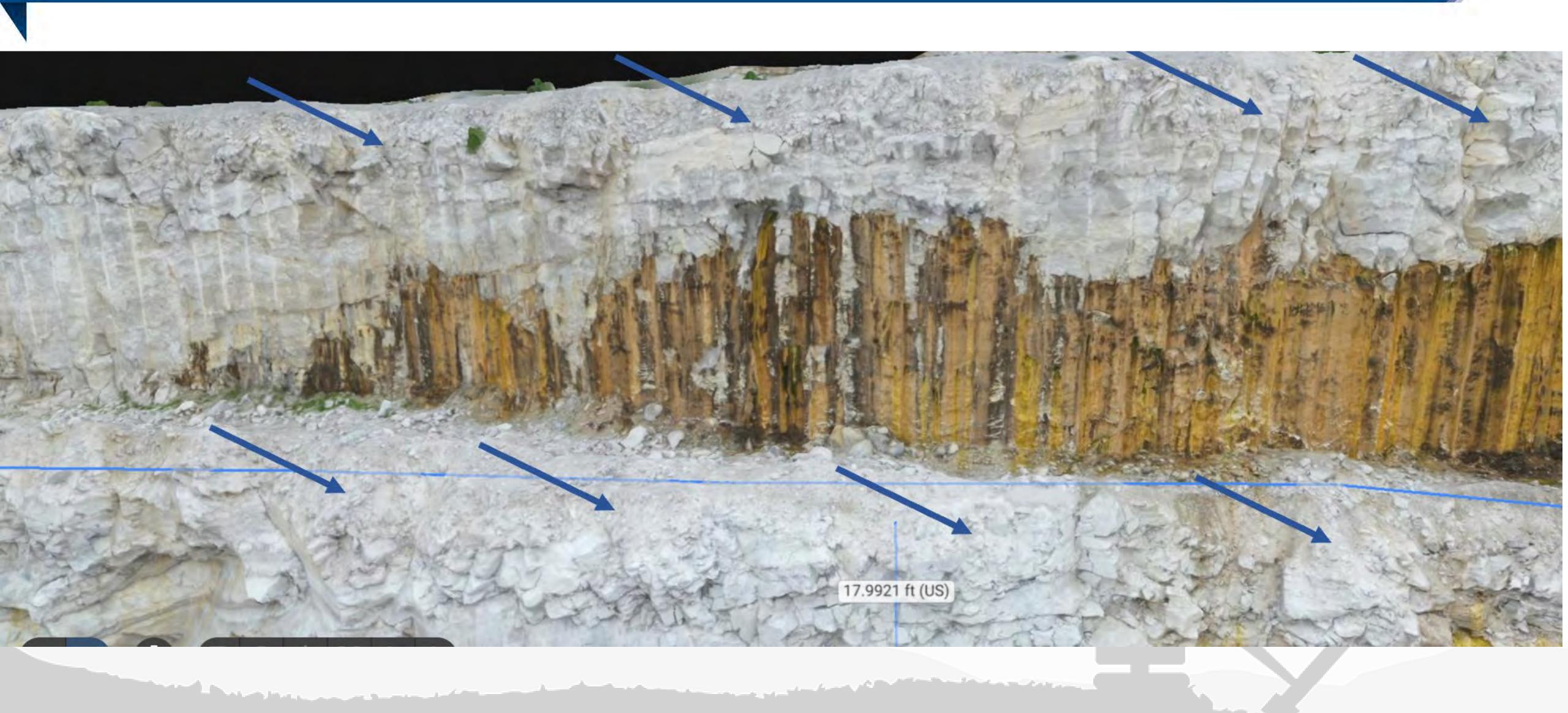
NEW PRIMARY CRUSHER STATION



NEW PRIMARY CRUSHER STATION



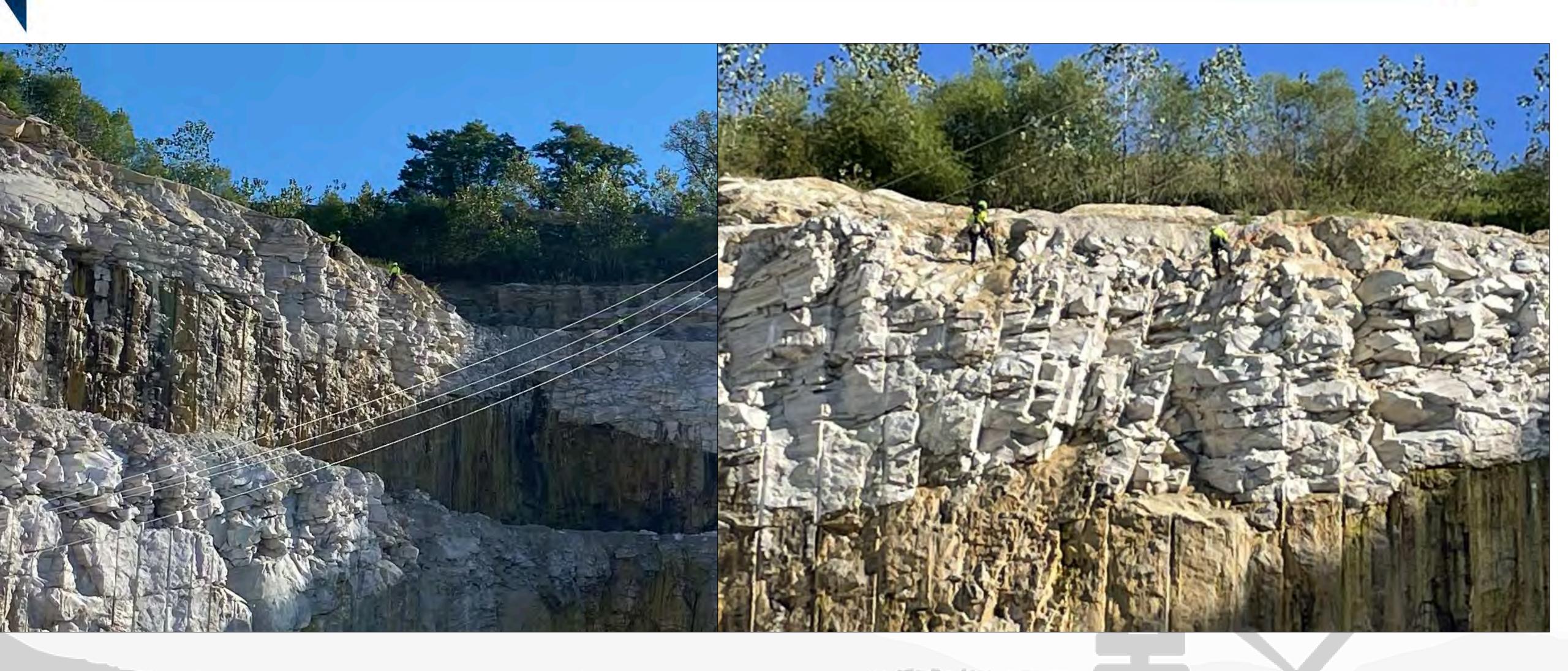
HEAVILY FRACTURED GROUND



HEAVILY FRACTURED GROUND

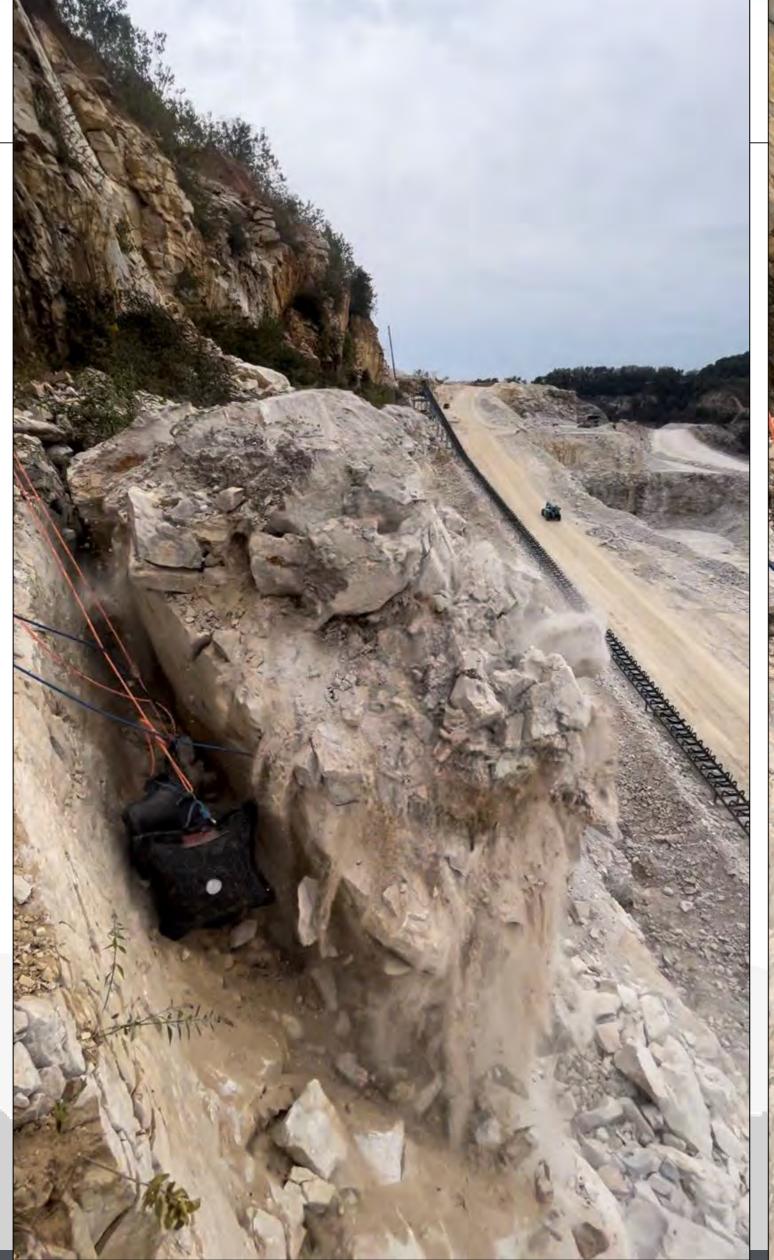


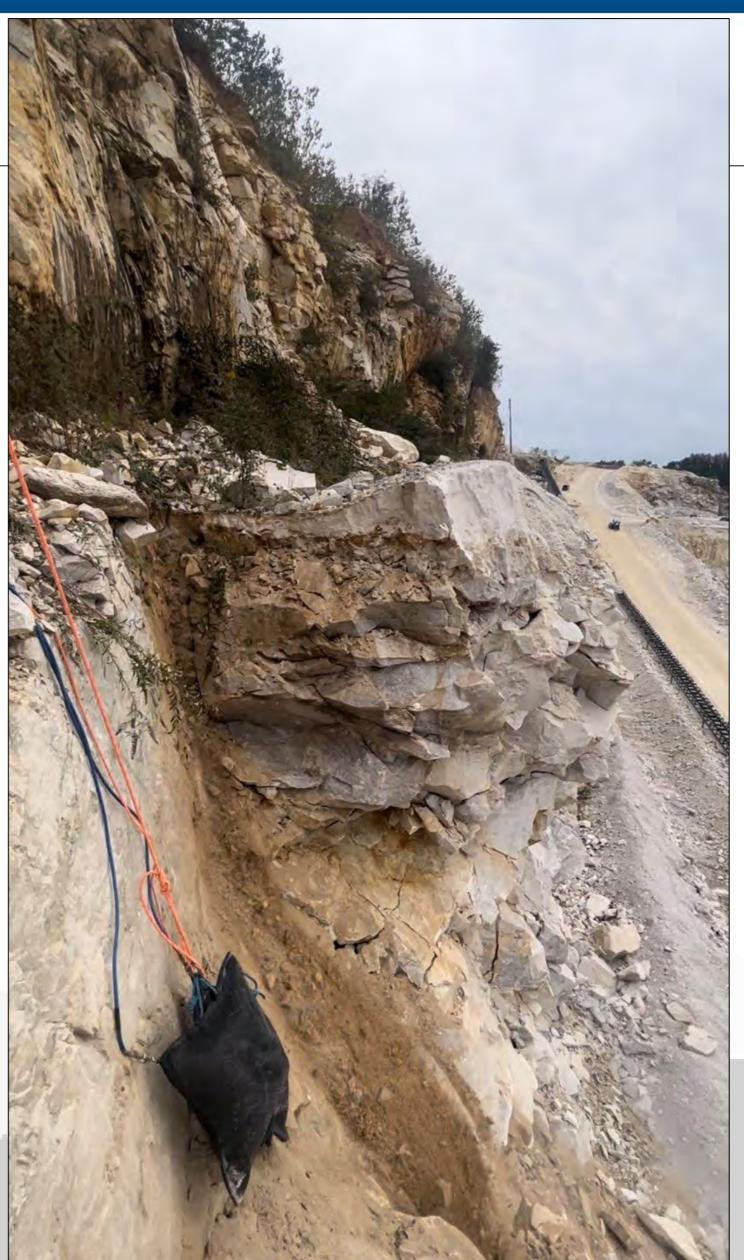
INITIAL SCALE



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AIR BAGGING





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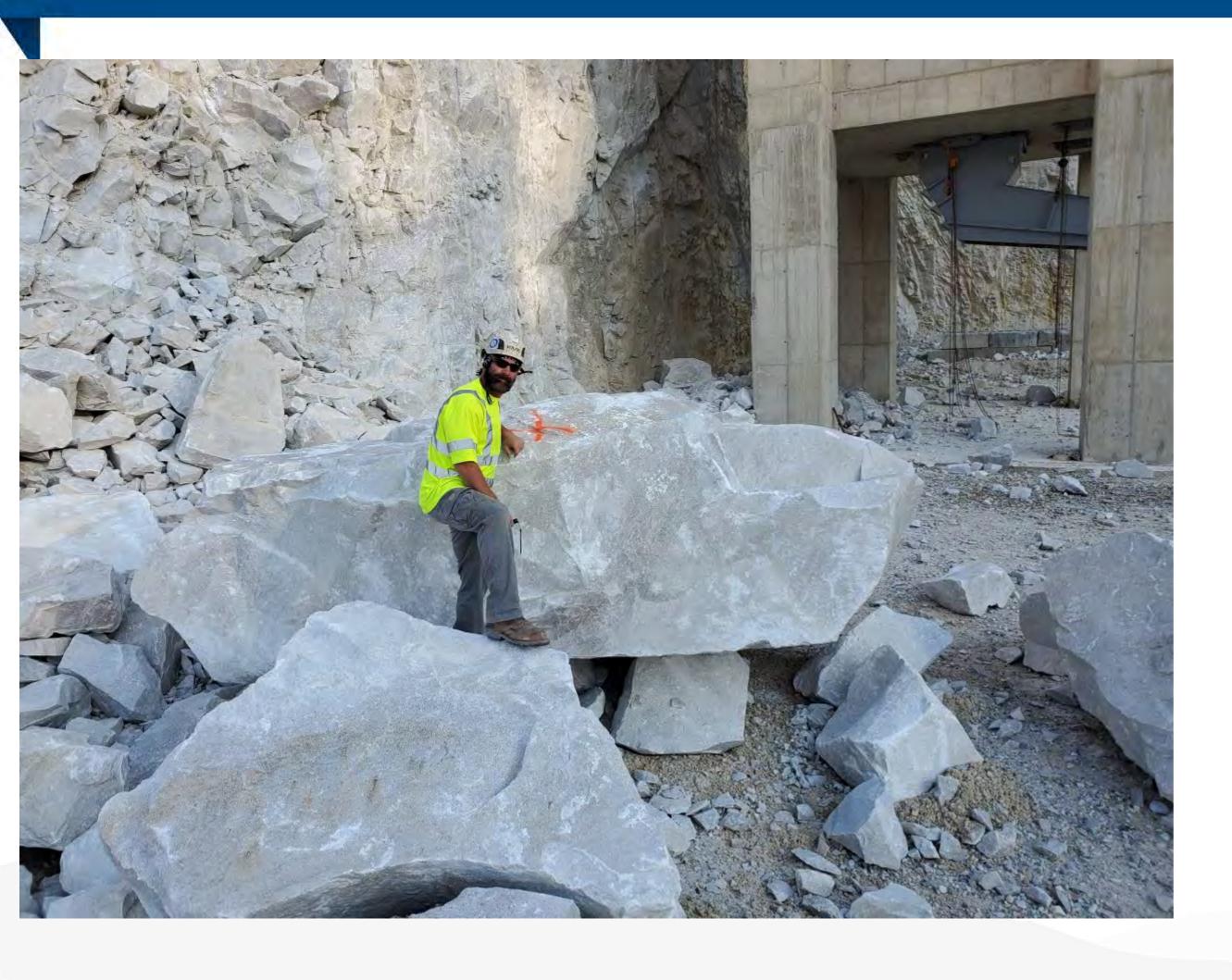
14

ROPE ACCESS SCALING CREW

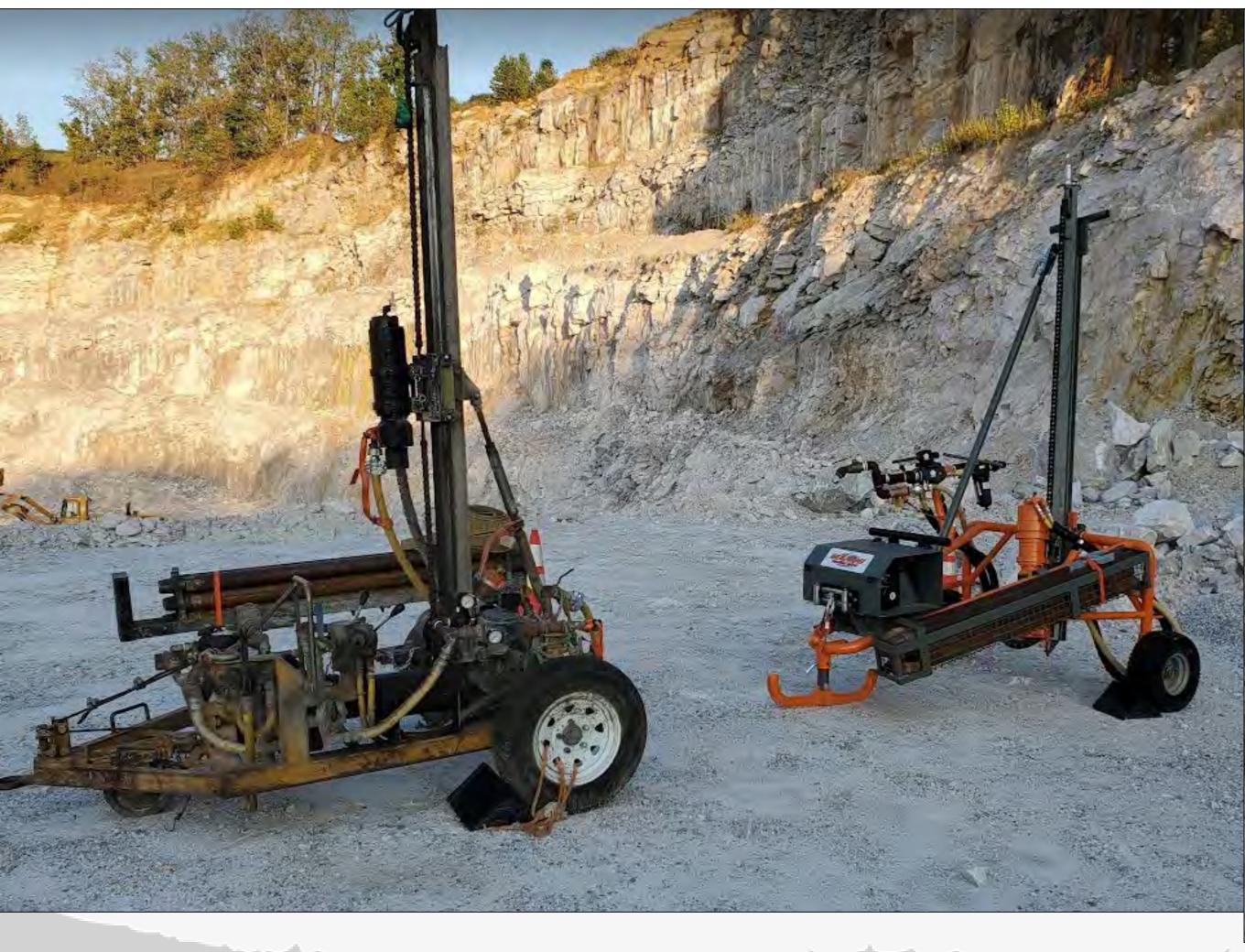


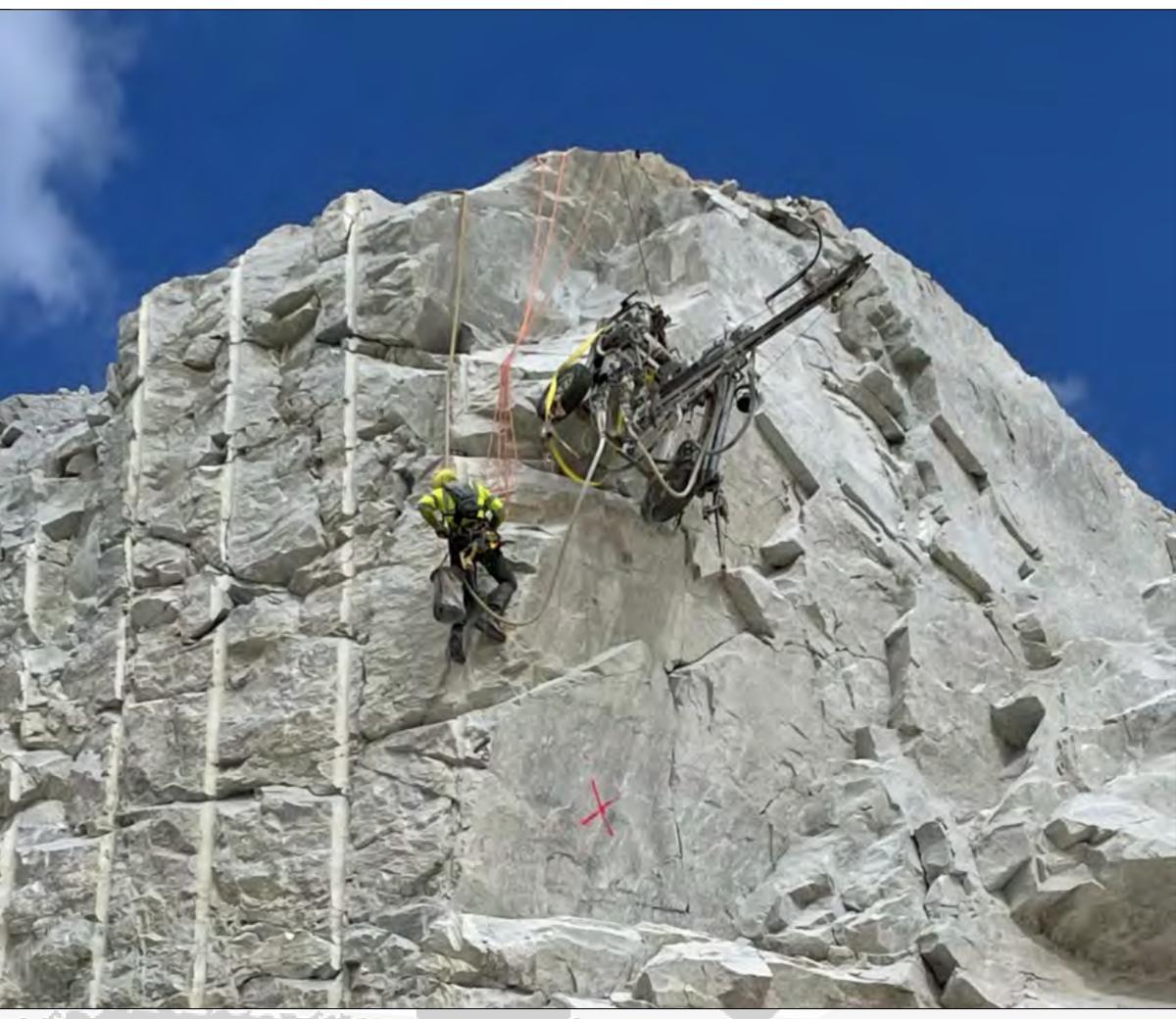


INITIAL SCALE



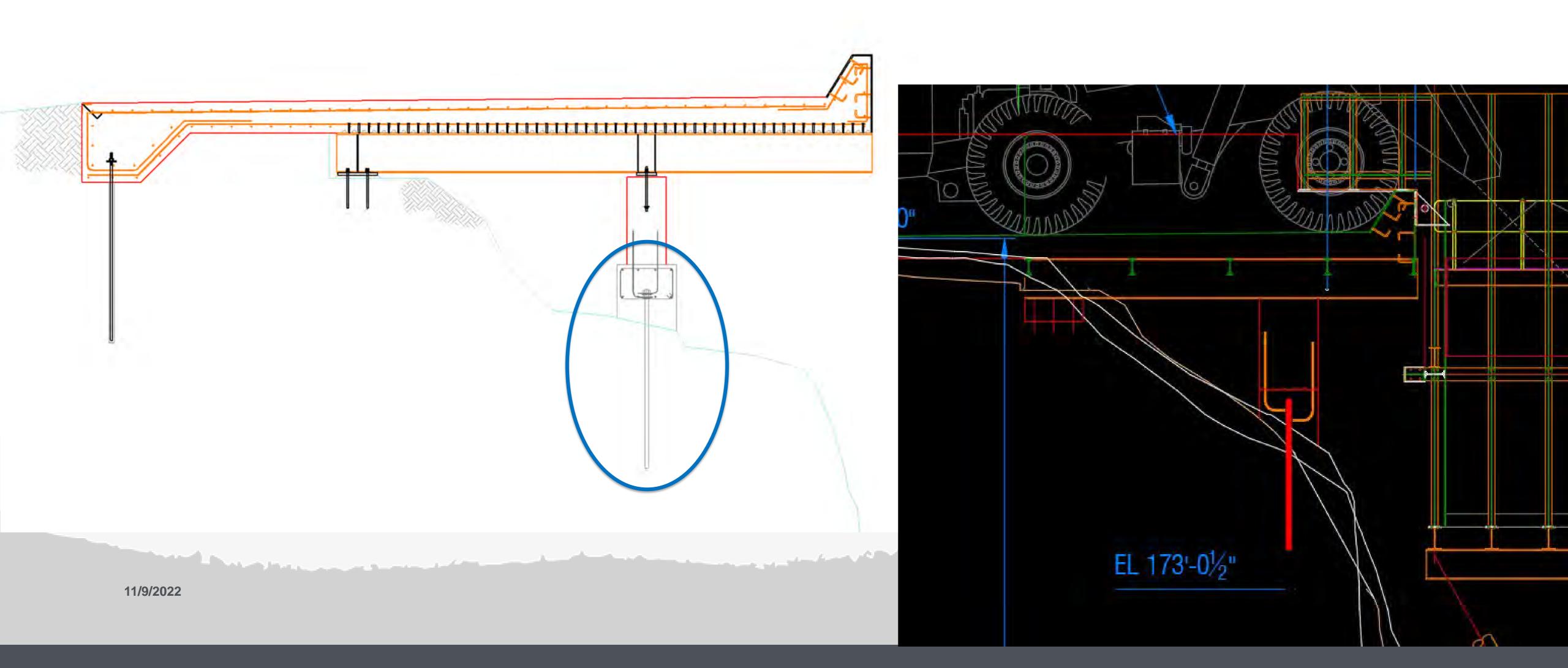
SPOT BOLTING



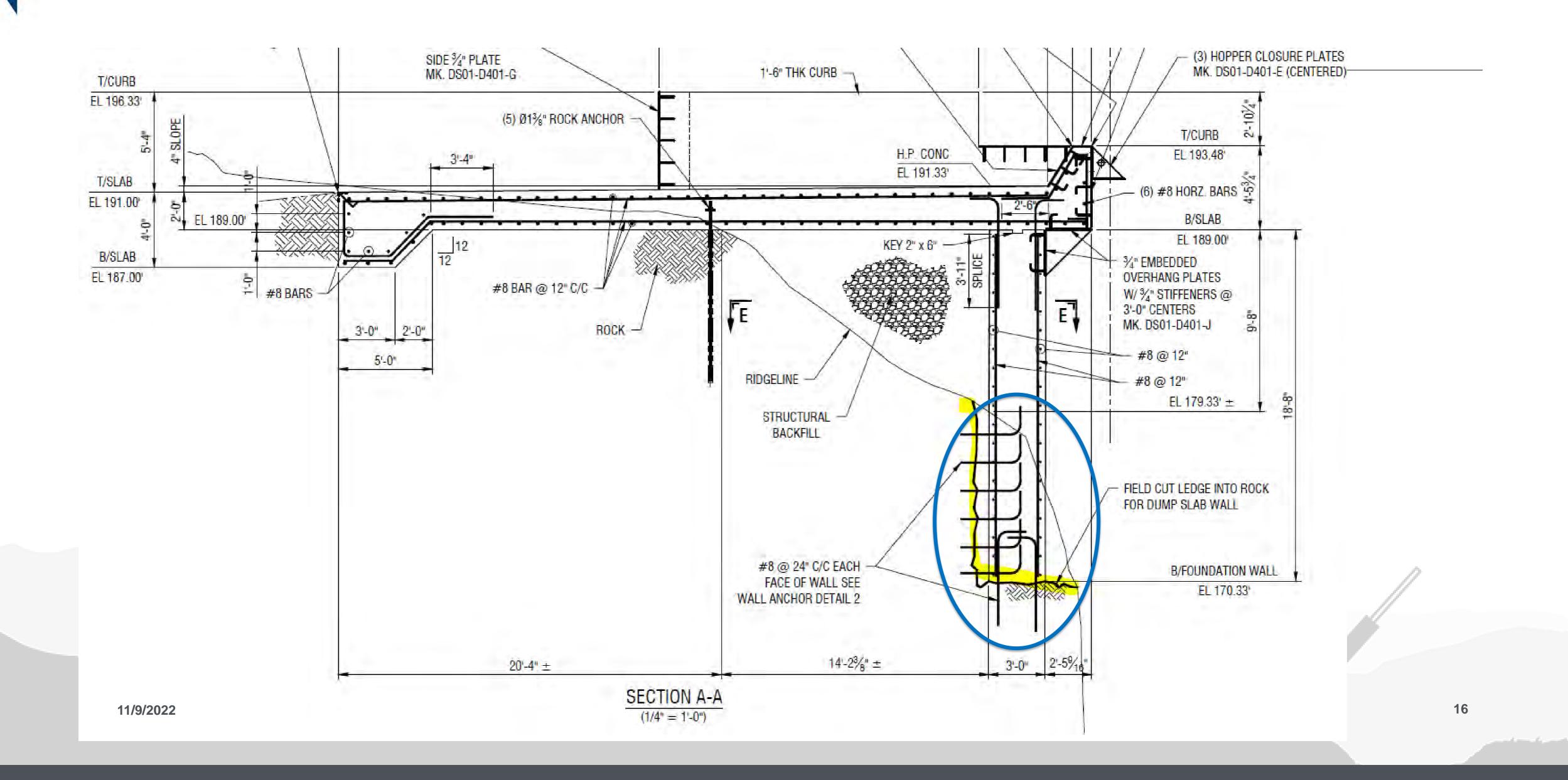


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MICROPILE FOOTING



MICROPILE FOOTING

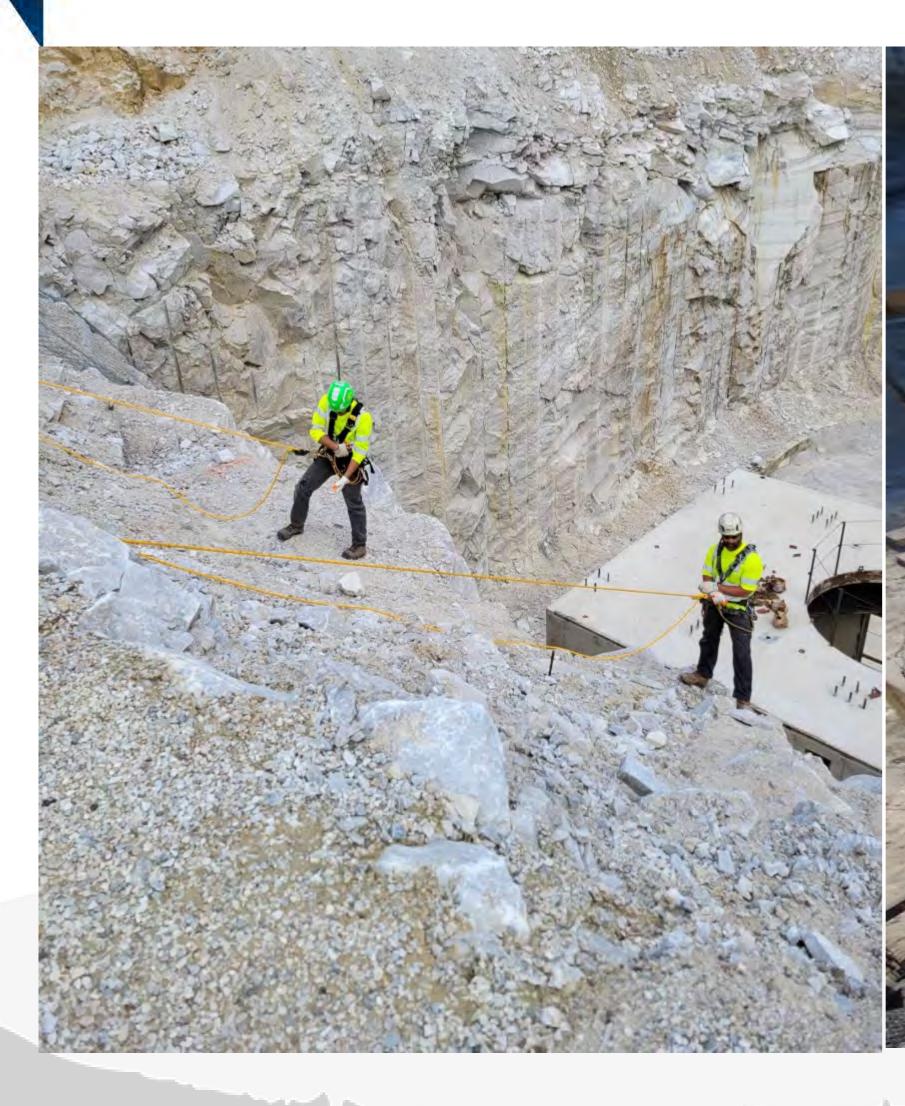


BENCH CLEAN UP



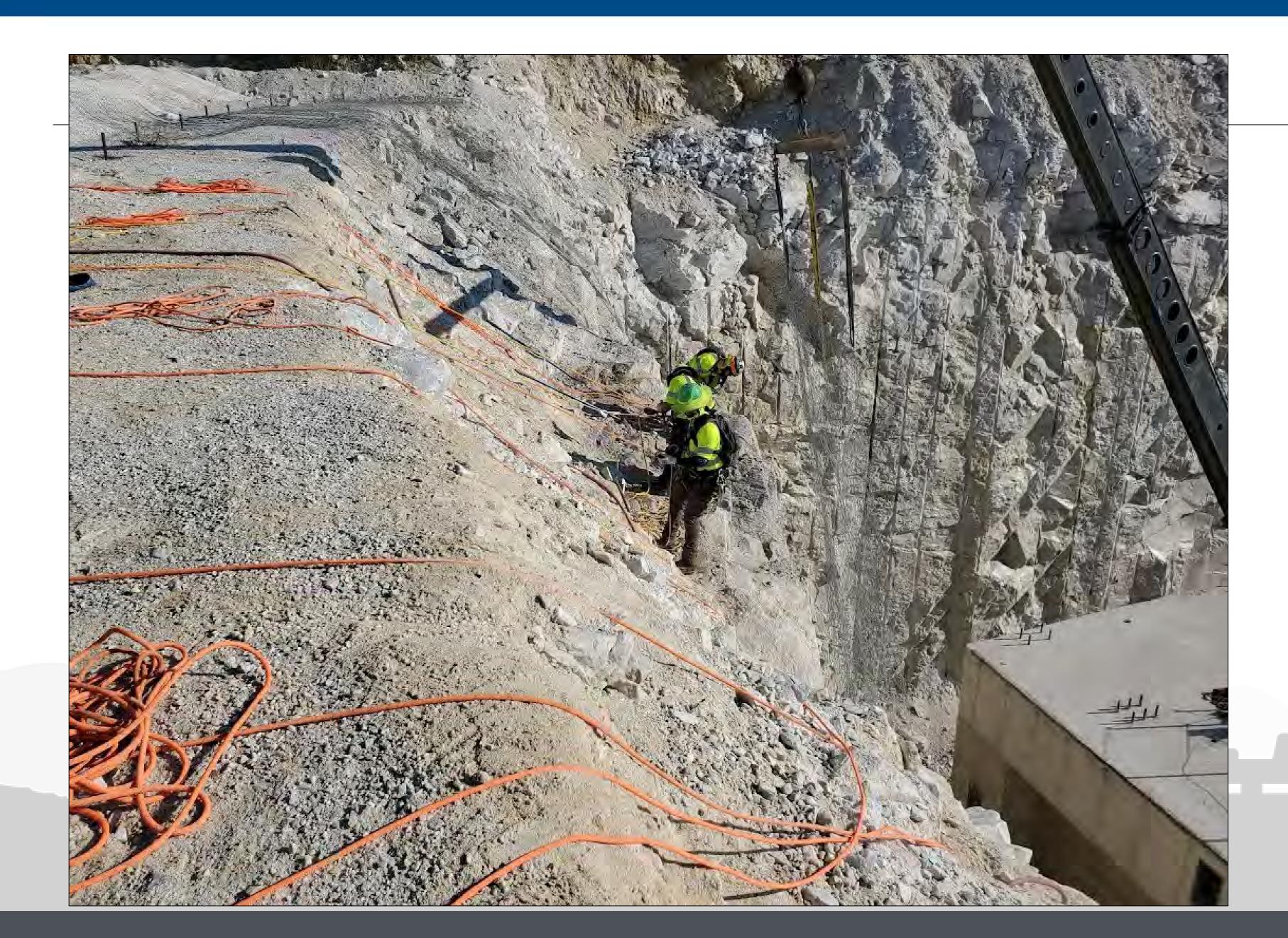


INITIAL SCALE





FACE PREPARATIONS

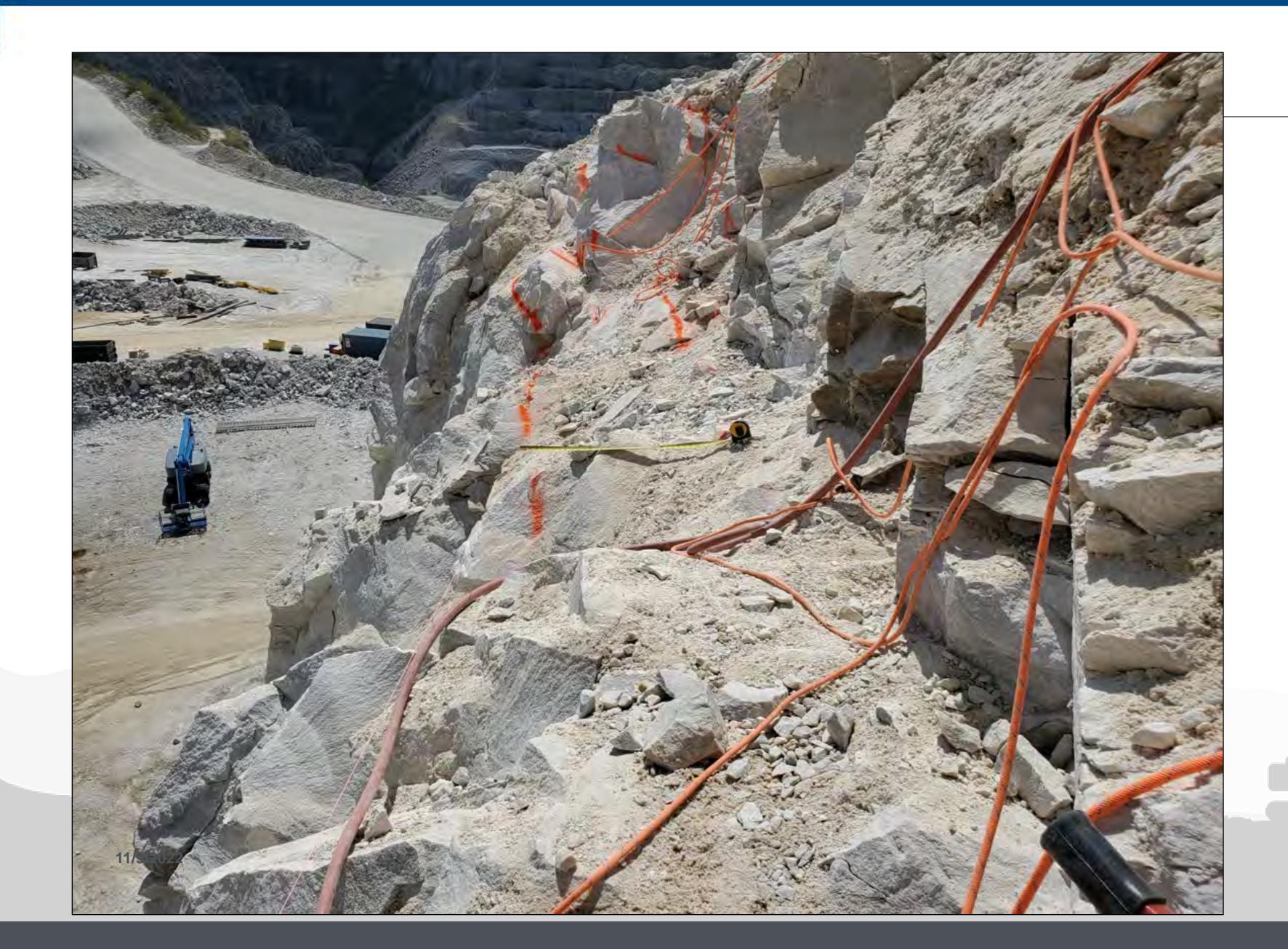


SUSPENDED MESH - ADDITIONAL PROTECTION



Extra Mesh for Containment

SURVEY MP CAP



DRILLED ELEMENTS – START FORM WORK





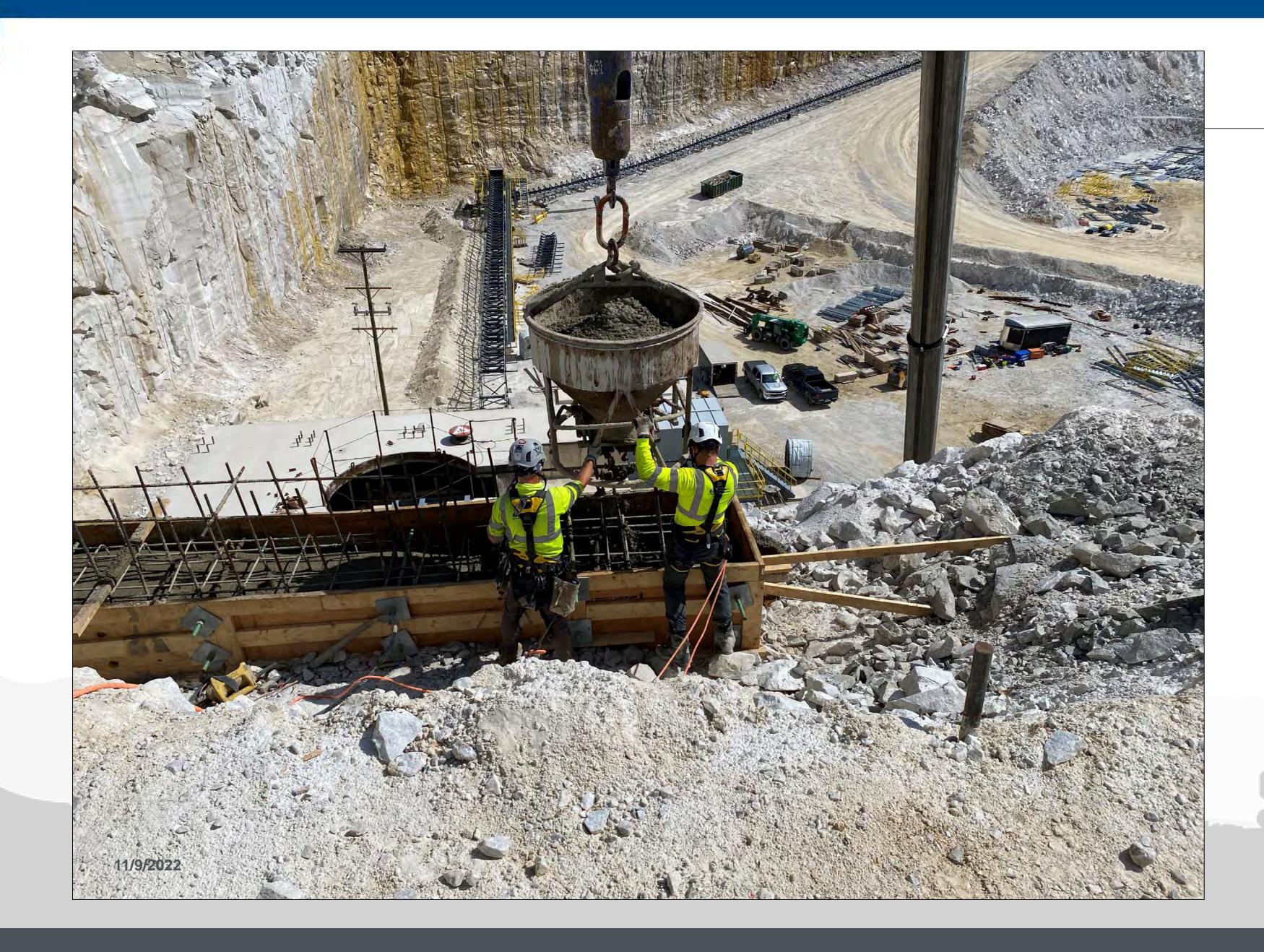
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MP INSTALLED / CRIBBING



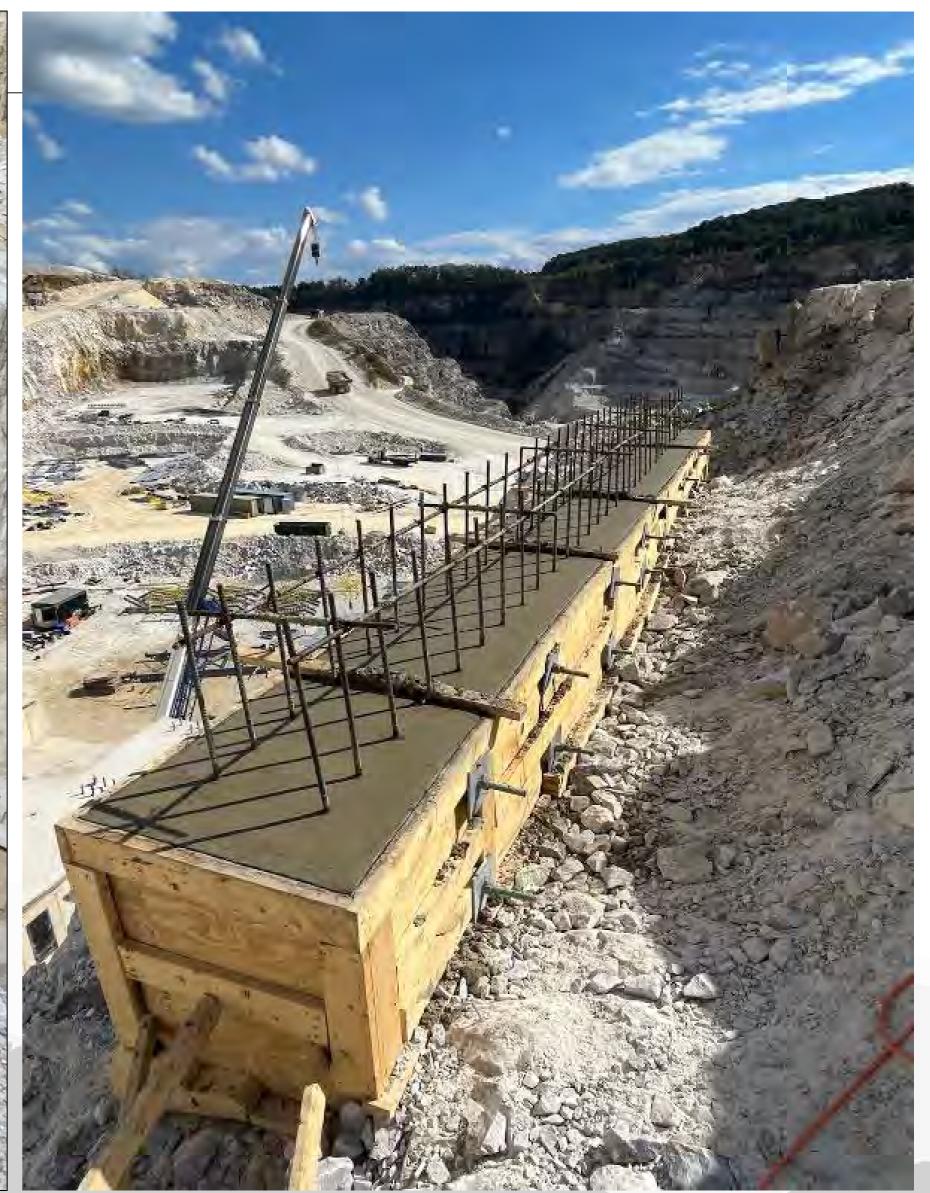


CONCRETE POUR

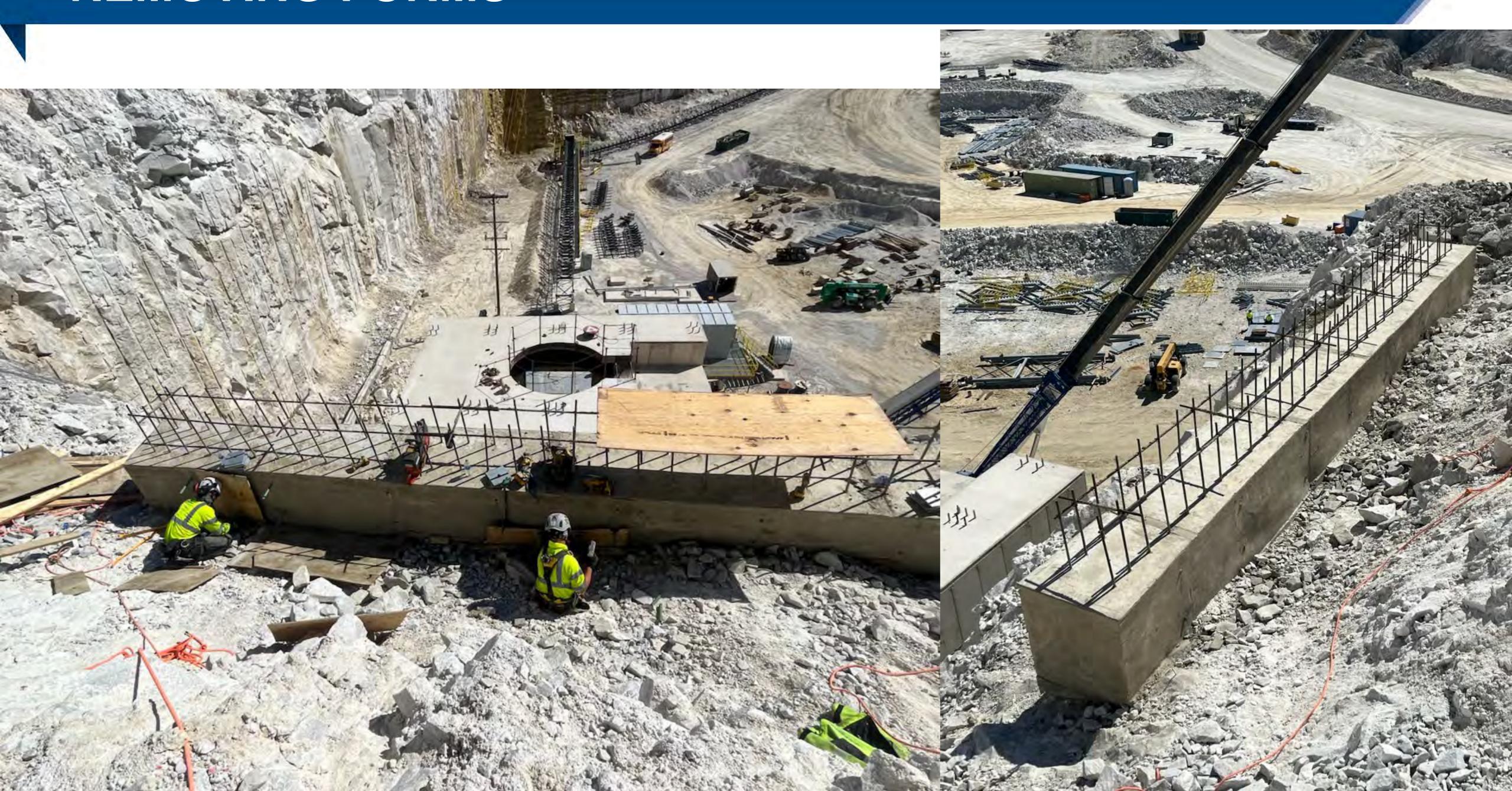


POST CONCRETE POUR

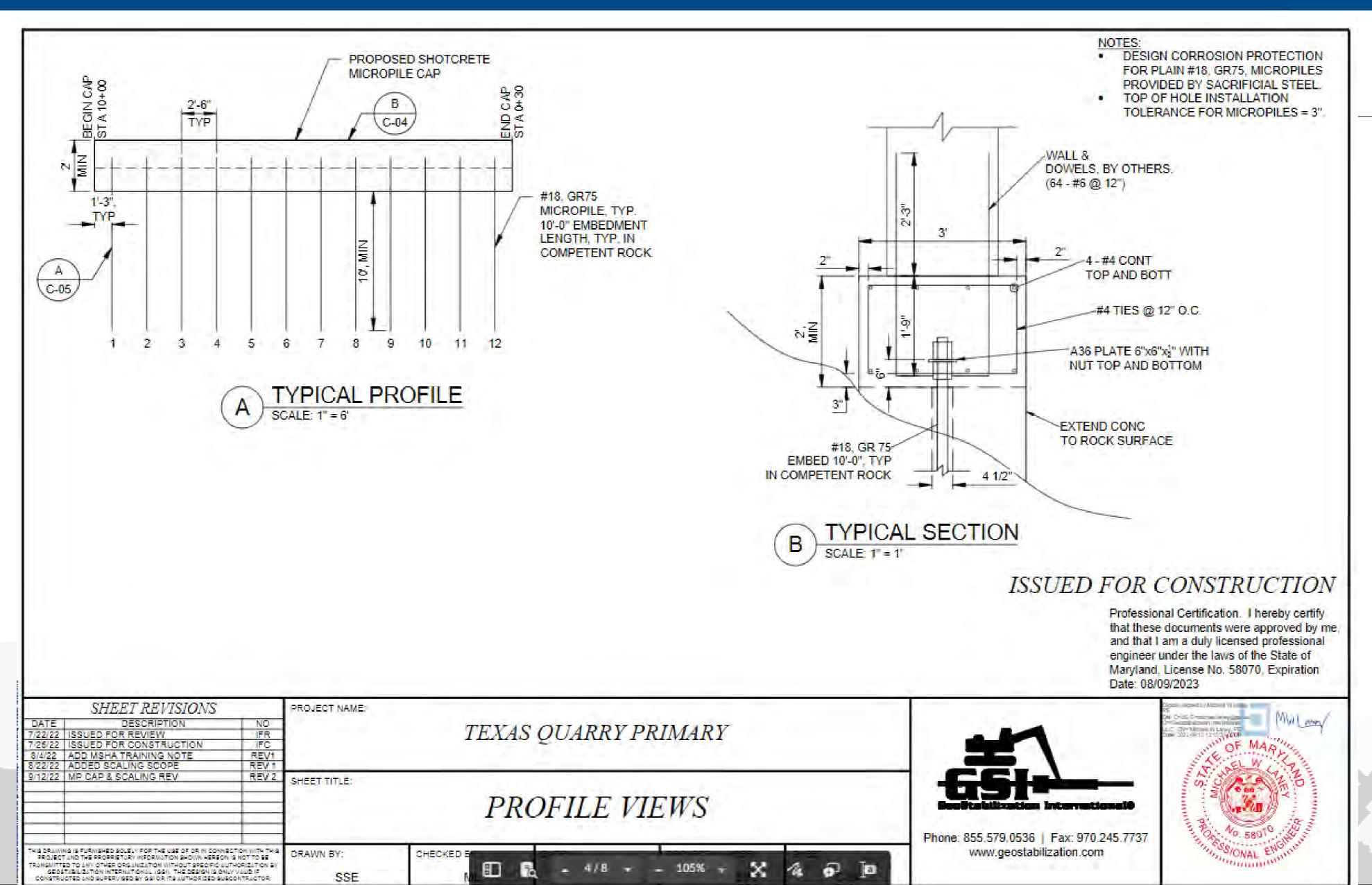


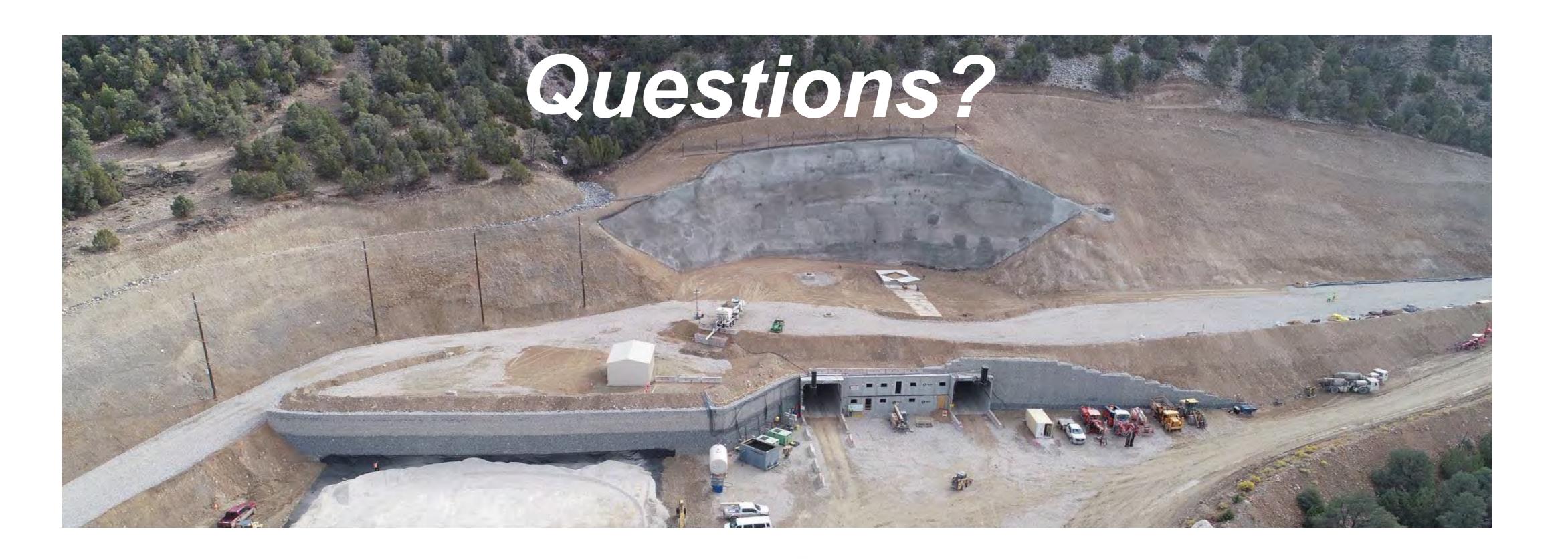


REMOVING FORMS



FINAL DESIGN







Trevor.a@gsi.us 720-450-0748