

Date : 03/27/2026  
Project No : 2025C214  
Client Company : Artisan  
Arrival Time : 03/27/2026 08:30  
Onsite Hours : 03:00

ASEC Report ID : 92854  
Name of the Project : NW Unit 4 BRIDGE (Materials Testing)  
Project Location : Dallas  
Weather : sunny  
Departure Time : 03/27/2026 11:30  
ASEC Technician Name : Ramchandra Mogulla

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## FIELD OBSERVATIONS

On the above date, an AS Engineering and Consulting, LLC (ASEC) representative visited the site at the contractor's request to **observe excavation and mud mat subgrade preparation** along the **sheet pile wall located east of Pumpkin Vine Creek and along River Walk Manor Drive**, in accordance with the project drawings, specifications, and prior coordination with the design team.

Excavation was performed along the face of the installed sheet piles to expose the underlying material for **mud mat placement and interface with previously placed mud mat sections**. Based on prior coordination with the bridge designer, the mud mat is intended to bear directly on **competent, clean bedrock**. This requires removal of all overlying soil and debris and preparation of a clean rock surface, including **cleaning of the sides of previously placed mud mat sections** to ensure proper contact.

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## TESTING AND RESULTS

A total of **nine (9) excavation sections** were observed along the sheet pile alignment. Bedrock was encountered at **varying elevations** within each section.

In several locations, bedrock was encountered at or above the **proposed bottom of footing or mud mat elevation**, consistent with prior observations. These conditions indicate that the **required 5-foot mud mat thickness may not be achievable** in these areas without modification.

The exposed bedrock surface and previously placed mud mat were **observed for cleanliness and preparation**. The contractor utilized **hand tools (shovels and brooms)** to remove loose soil and debris and promote direct contact between the mud mat and the rock surface. The prepared surfaces appeared **acceptable for concrete placement** at the time of observation.

The bedrock was observed to be **generally competent** based on visual assessment. While vertical continuity of the rock surface could not be verified within the exposed sections, **prior subsurface exploration** in this area indicates the presence of **competent residual bedrock** at the observed elevations.

Photographs documenting the **excavation conditions and rock profile** are included with this report.

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**Ramchandra R. Mogulla**  
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*Kenneth Mosman*

**Kenneth Mosman**

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