

BART Agreement Number: 6M8209

Approval Date: 12/13/24

Work Plan No A.11-01 W-Line Water Mitigation – Engineering Support During Construction

Scope:

Scope of Services

The Consultant shall provide the following scope of services:

Task 01: Project Management and Administration

The scope includes project management and facilitating coordination meetings with the BART team, conducting QA/QC review of the deliverables, and monitoring project progress against the detailed task schedule.

Task 02: Engineering Support During Construction

The consultant will coordinate with BART Maintenance on a weekly basis, to accompany the Maintenance crew and observe grouting work being performed. The consultant will develop Nightly Water Leak Remediation Sheets to include work schedule; material and equipment to be used for the shift; grouting product used; drilled holes details; location and description of cracks; incidents; pictures showing pertinent aspects of the work; and observations made during the injection process. The consultant shall also evaluate cracks based on previously completed pre-construction surveys and the additional pre-construction surveys that immediately precede the grouting work being performed in a particular tunnel segment. If any of these cracks show obvious signs of previous water intrusion, they will recommend these cracks be repaired as well. The consultant will document the locations of suggested additional work in the Weekly Grouting Inspection Report.

The consultant will monitor on-site grouting activities performed by the BART Maintenance personnel, and offer advice if issues arise. The consultant will identify the locations and provide recommendations regarding the cracks to be repair and grouting procedures. This information shall be provided to the inspectors and be documented in the Nightly Water Leak Remediation Coordination Sheet. Consultant will compile the Nightly reports and provide a Weekly Grouting Inspection Report summarizing the grouting work for the whole week.

The consultant will prepare an updated BART Maintenance Tunnel Leak Remedial Work Plan to capture any changes in tunnel grouting procedures and crack repair evaluation, based upon lessons learned from previously completed W-Line grouting work.

Prime: HNTB+FMG JV

Subconsultants: None

Total Work Plan Value: \$ 222,156