

**Work Plan: No. B.12 Systemwide Historical Assessment Contract**

**Scope:**

**2.0 SCOPE OF WORK**

PGH Wong Engineering, Inc. (“CONSULTANT”) will provide a Construction Management team consisting of a part-time Office Engineer for approximately 12 hours/week, a full-time Inspector for approximately 40 hours/week, and a part-time Inspector for approximately 20 hours/week.

The work is under the responsible charge of the Resident Engineer, who is not part of this Work Plan (Resident Engineer to be provided by BART or other Consultant).

The construction work by BART maintenance forces consists of the injection of chemical grout into cracks/joints in W-Line concrete cut-and-cover tunnel structures. The Inspectors provided by CONSULTANT will assume the role of completing the documentation of the tunnel leak remediation work. The limits of M-Line and W-Line Tunnels included in the scope of work include the following:

<b>Line</b>	<b>Start Mile Post</b>	<b>End Mile Post</b>
M	15.96	16.09
M	16.16	16.18
W	16.54	16.6
W	17.08	18.69
W	18.79	20.68
W	20.68	21.08

W	21.21	22.44
W	23.28	24.11

**Task 1: Project Management and Administration:**

The scope includes project management and project control services, facilitating coordination meetings with the BART team, conducting QA/QC review of inspection deliverable, and monitoring project progress against the detailed task schedule. CONSULTANT will submit a monthly Progress Report including the status of each subtask, the schedule, milestone deliverables, and budget status.

**Task 2: Pre-Work Inspector Duties:**

At the beginning of each shift, the planned work will be discussed and agreed upon between BART maintenance and the engineering staff. The Inspectors provided by CONSULTANT will complete the 'Daily Water Leak Remediation Coordination Sheet' indicating what was agreed upon. In addition, CONSULTANT will coordinate with the BART maintenance team to confirm the required equipment and materials are present. This information will be documented in the 'Daily Water Leak Remediation Coordination Sheet.'

**Task 3: Inspections During Construction:**

During the shift, the Inspector will monitor work activities performed by BART maintenance personnel and document relevant aspects of the shift activities. This information shall be documented in the Daily Water Leak Remediation - Grouting Inspection Report, which must be provided to BART for review, and 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.

**Prime:** PGH Wong Engineering, Inc.

<b>Subconsultant</b>	<b>Amount</b>	<b>DBE (Y/N)</b>	<b>SBE (Y/N)</b>
Cornerstone Transportation Consulting, Inc.	\$309,681	Y	Y
FW Associates	\$156,341	N	Y

**Total Work Plan Value:** \$575,082