

**Work Plan No. A.14.02 - BART Warm Springs Extension Irvington Station Final
Design Amendment #1**

Scope:

- (a)** Remove trees obstructing the Gallegos winery ruins so that the wall can be properly assessed.
- (b)** Use GPR and ER scan for anomalies behind the Gallegos winery walls.
- (c)** Perform borings to investigate anomalies discovered behind the Gallegos winery walls.
- (d)** Perform an ALTA survey of the Gallegos site.
- (e)** Perform wind scenarios as part of the fire dynamic simulation.
- (f)** Perform "what-if" scenarios to determine the design approach that most effectively balances construction efficiency, cost and schedule with operation impacts.
- (g)** Use the BART Design Checklist implemented in early 2021.
- (h)** Design the shoring along the trackway.
- (i)** Re-design restrooms to have an "airport-style" configuration to align with BART's new approach regarding restrooms.
- (j)** Add HVAC to unassigned rooms likely to be used as offices or for communication equipment.
- (k)** Accommodate digital railway.
- (l)** Add a stormwater pump to convey water west of the BART tracks to the treatment area east of the BART tracks.
- (m)** Keep City and BART storm drainage separate.
- (n)** Re-design for second PG&E feed, if confirmed to be available.
- (o)** Gallegos pathway reconfiguration to not underground the swale.
- (p)** Incorporate the updated BART standard signage anticipated to be released in 2022.
- (q)** Additional tasks as assigned.
- (r)** Final Design would be limited to Phase 1 of the Project's Scope of Work per the attached Exhibit A, Estimate Phasing Overall Plan.

The work within BART ROW will be performed in accordance with BART Standards. The work within the City ROW will be performed to City of Fremont Standards.

2.1 BART SUPPORT

- (a) BART will provide guidance and input with pertinent information as design criteria, as-built drawings, specifications, and interface/coordination requirements in the design of the Fiber backbone and tie-in into the existing fiber system.

3.0 QUALITY ASSURANCE/QUALITY CONTROL PLAN (QA/QC PLAN) REQUIREMENTS

CONSULTANT will prepare and follow a QA/QC Plan for the design of the Irvington Station. The QA/QC Plan will be submitted to BART for approval. For Quality Assurance, the CONSULTANT will have an individual assigned as QA Manager to train and monitor the design team in the QC procedures. The QA Manager will review the QC documentation of the design team following the document deliverables of the 60%, 90%, 100%, and IFB Submittals. Deficiencies found in the QC procedures will be corrected by the design team. Documentation of the QA review will be made available.

Prime: PGH Wong Engineering, Inc.

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
AMC Consulting Engineers, Inc.	\$ 952,904		
Elevator Consulting Services, Inc.	\$ 85,078		
FW Associates, Inc.	\$ 1,031,783		
Glumac	\$ 318,526		
Merrill Morris Partners	\$ 248,072		
Moffatt & Nichol	\$ 269,454		
Parikh Consultants, Inc.	\$ 21,503		
Regina Almaguer Fine Arts	\$ 25,122		
Robin Chiang & Company	\$ 440,403		
Towill, Inc.	\$ 194,278		
HDR WRECO	\$ 484,540		

Total Work Plan Value: \$ 9,006,249