

BART Agreement Number: 6M8179

Approval Date: 08/01/24

Work Plan No. B.07-01 Constructability, Biddability and Estimate Review for TCCCP TPSS East Bay

Scope:

The Scope of services will include provision of design/construction engineering expertise to perform the following services at the request of BART.

- 1) Constructability/Biddability review of contract design at the current 100% / IFB design stage:
 - a) Become familiar with drawings, specifications, estimates, schedules, and other contract documents to evaluate whether details of the scope can be built per plans, specifications and schedule; that the contract documents will facilitate the receipt of reliable, responsive bids; and reduce post-bid contract changes.
 - b) Attend meetings with the design team to discuss and understand the project details, including scope, work locations, and known constraints. At this stage, provide review of available developed design at a depth commensurate with the level of detail provided.
 - c) Field visits and inspections to understand existing conditions and potential construction/design issues.
 - d) Assess the possibility of differing site conditions and whether additional field investigation/survey/potholing/GPR is recommended to better identify potential construction conflicts. Suggest alternatives for possible routing, equipment locations, footing modifications and excavations to avoid or limit the possibility of conflicts in areas where excessive hidden obstacles or other differing site conditions can be anticipated.
 - e) Review site access restrictions, space requirements for equipment and construction activities, and alternate routing of utilities to conserve space or limit material quantities.
 - f) Review provisions of allowable access times associated with access to the ROW or access to adjacent roadways, including traffic control. Review construction phasing to verify plans and specifications provide a feasible option for construction.
 - g) Confirm that occupants in or near the facility being constructed have been consulted about potential construction impacts. Contract documents should include mitigations for impacts of the work including access restrictions.
 - h) Verify the scope of work is clear and consistent across contract documents to eliminate ambiguities and increase the biddability of the contract.

- i) Evaluate the construction schedule assumptions for reasonableness, recommending modifications as appropriate based on potential deficiencies identified.
 - j) Identify hours of work, staging areas (day shift, night shift), and required District support.
 - k) Review unresolved comments provided by previous reviewers and provide recommendations for comment resolution.
 - l) Contribute to the existing risk register by including documented concerns that may impact project performance by working with the project manager. Therefore, the risk can be managed from bid to closeout phase of the contract.
 - m) Other technical support or other services as required.
- 2) Cost estimate peer reviews of contract design at the current 100% / IFB design stage, including but not limited to the following tasks:
- a) Assess schedule and estimate for assumptions.
 - b) Review estimate mark-ups and suggest adjustments for current bid market if needed.
 - c) Check estimate for pricing .
 - d) Identify scope missing from the estimates.
 - e) Check Bid Schedules for the Typical BART Items and Allowances.

Prime: HDR

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
SEM	\$ 29,722	N	Y
M. Lee	\$ 68,983	Y	Y
Mott	\$ 33,620	N	N

Total Work Plan Value: \$ 292,443