

**BART Agreement Number:** 6M8146

**Approval Date:** 07/14/2022

**Work Plan No.:** B.16-01 - Elevator Renovation Phase 1.3 Engineering Services for Field Assessment and CER report

**Scope:**

## 2. PROJECT SCOPE OF WORK

### 2.1 Scope of Work

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The scope of work shall include the following:

- 1) Review of available information provided by the District:
  - a) As-built drawings for elevator hoistway, elevator cab and layouts, elevator machine rooms and associated equipment, electrical and communications, architectural, and plumbing, HVAC, utilities, and similar associated systems.
  - b) Recent District inspection and maintenance reports
  - c) Identification of current BFS and their applicability to the project
  - d) Design criteria
  - e) Review of latest elevator codes (local, state and other applicable codes)
  - f) BART Operations and M&E priorities and requirements (to be provided by BART)
  
- 2) Field survey to observe site conditions of the following Elevator System elements:
  - a) Elevator entrances/sills
  - b) Cab interior (including fixtures: Cabin Operating Panel, call button, lanterns)
  - c) Elevator Car
  - d) Hoistway interior and exterior (as well as equipment such as rails, ropes, brackets, switches)

- e) Hoistway Pits
  - f) Elevator Machine Room (including hydraulic pipes, conduits, wires)
  - g) Electrical Rooms
  - h) Adjacent rooms for plumbing, HVAC, conduit routing, and any other elevator support systems.
  - i) Kiosk for elevator annunciator panel(s)
  - j) Rooftop for HVAC equipment inspection (if applicable).
- 3) Documentation of field conditions for all elevator systems and provide to BART for preliminary review
- 4) Systems interface review and coordination:
- a) CCTV Systems
  - b) Intercom, Telephone, and/or Communications
  - c) Elevator related Fire detection/alarms
  - d) Elevator Systems Performance Monitoring (if applicable)
  - e) Interface with other third-party agencies related to the 9 elevators only.
- 5) Engineering work to prepare Condition Assessment and Conceptual Engineering Report that includes the following:
- a) Documented findings from the field assessment
  - b) Recommendations for renewal scope for each elevator system
  - c) Preliminary code review of existing system with respect to current codes.
  - d) Identify possible site-specific constructability concerns.
  - e) Preliminary/high-level conceptual cost estimate for construction along with construction schedule (based on the field assessment and recommendation) with high contingency value.
  - f) Recommendation on changing old traction elevators (i.e. M30-55, etc.) to MRL elevators.
  - g) Market study: potential bidders, market competition today & projections for the next few years, and market analysis to evaluate that the proposed execution is favorable
- 6) Topographic Survey/LIDAR (as needed) in support of future engineering work to develop 35% through Issued for Bid design packages

**Prime:** Parsons

<b>Subconsultant</b>	<b>Amount</b>	<b>DBE (Y/N)</b>	<b>SBE (Y/N)</b>
YEI	\$142,954	Y	Y
RSE Inc.	\$249,997	Y	Y
Elle Consultants, Inc.	\$46,807	Y	Y

**Work Plan Value:** \$896,763