

BART Agreement Number: 6M8143

Approval Date: 11/28/22

Work Plan No. B.28-01 HMC South End Connector Project Track Survey

Scope:

A. Set up survey control – Consultant shall review existing files to be provided by BART, such as aerial survey and reconcile previous survey control from other projects.

B. Design Survey

- a. Survey existing assets for track, traction power, train control, civil, and topographic
- b. For track, it includes about 500 ft of tracks, rail joints, point of switches, locations where rail sizes changes, etc.
- c. For traction power, it includes beginning/ end of third rail, jumper cables, rosette, etc
- d. For civil, the critical features include retaining walls, grades, etc

C. Pre-Construction Survey

- a. Constriction staking to lay out all proposed construction elements including but not limited to track, traction power, train control, and civil assets.

D. Construction Survey

- a. A surveyor may be required to be on-site to confirm the location of construction and to support track surfacing operations.

E. Post-Construction Survey

- a. Complete survey of the new construction to support preparation of as-builts. Assets include track, train control, traction power, and civil assets.
- b. Provide survey report comparing the offsets between the design and actual location of track alignment
- c. Provide a report showing the track geometry parameters such as gauge, superelevation, 62-ft and 31ft chord measurement as required by BART standard specification.

Prime: HDR

Subconsultants:

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
Cinquini & Passarino	\$38,317	N	N

Total Work Plan Value: \$53,446