

Work Plan No B.04-02 A77 DSDC, Survey, As-Builts

Scope:

The Scope of Work for At-Risk Services During BART In-House Construction for the A77 Interlocking Renewal Project is described below.

2.1 Meetings

- a) Participate in meetings with BART staff, as needed.
- b) Participate in design review and construction meetings to resolve or clarify comments, if requested by BART.

2.2 General Design Services During Construction

- a) Site review and observations, during installation at critical areas or points of interest, if requested by BART, to review site conditions that may require design change or input from design team for minor changes.
- b) Prepare Record/As-Built Drawings for trackwork, train control, traction power, and civil/utilities facilities installations made by BART forces. Prepare Record/As-Built Drawing Packages for Phases 1, 2, and 3 based on redlined drawings received from BART. Package three Phase Packages into a single record/as-built drawings package.
- c) Prepare design changes and drawing updates of trackwork, train control, traction power, and civil/utilities facilities due to in-field conditions, or as requested by BART.

2.3 Surveying Support Services During Construction – Site Staking

- a) New survey control points are installed within the construction area, as needed. These control points are used for locating future track and duct bank locations.
- b) Pre-construction layout of parallel and undercrossing duct banks, as directed.
- c) Install alignment and profile (grade) stakes as requested to support the project.

2.4 Surveying Support Services During Construction – GEDO System Surveying

GEDO system surveys are performed in support of BART track construction activities.

- a) Establishing Survey Control
 - i. Field surveyors set survey control at along east side of the A2 Track. These new control points are pipe set into the ground on top of which a reflective prism will be set.
- b) BART Post-Construction Track Survey
 - i. A Track As-Built Report with coordinate file for the track that was measured will be prepared and submitted to the District.
 - ii. Track Graphical Report: A Final Track Report in chart format will be submitted.

Prime: PGH Wong Engineering, Inc.

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
Towill, Inc.	\$ 116,336	N	N

Total Work Plan Value: \$ 321,689