

BART Agreement Number: 6M8147

Approval Date: 08/13/19

Revised Date: 05/17/24

Work Plan No. B.04-01 A77 Interlocking Replacement Design

Scope:

2.1 Trackwork Design Services

The Scope of Work for additional Trackwork Design Services for the A77 Interlocking Renewal Project is described below. Overall Task identifications in this Scope of Work correspond to those in Contract 6M8067 Work Plan No. B.07-01.

TASK 1 – Preliminary Investigation/Conceptual Design

Not Applicable

TASK 2 – 35% Design Level

Not Applicable

TASK 3 - 65% Final Design

- a) Develop horizontal and vertical track alignments for the SW131/SW437/SW539 special trackwork complex based on BFS design criteria.
- b) Prepare general civil and track, systems, and electrical plans and details for the SW131/SW437/SW539 special trackwork complex.
- c) Identify potential construction staging sequence (sequence of construction activities) and prepare Construction Staging Plan. Prepare Construction Staging Plans specific to the SW131/SW437/SW539 special trackwork complex due to its complexity.
- d) Prepare Special Trackwork Complex Plans and incorporate into the 65% Submittal.
- e) Prepare Special Trackwork Complex Specifications Plans and incorporate into the 65% Submittal.
- f) Prepare 65% Cost Estimate based on the 65% Design Level Plans and Specifications for the SW131/SW437/SW539 special trackwork complex.

TASK 4 - 95% Final Design

- a) Refine 65% Plans, Specifications, and Cost Estimate.
- b) Assemble and submit Design Documents and Cost Estimate for BART's review.

TASK 5 - Issue for Bid (IFB)

- a) Prepare and submit Final PS&E Documents ready for bid.
- b) Provide support during bidding process including engineer's estimate, bid evaluation, Q&A from bidders, and preparing addenda.
- c) Prepare bid evaluations and award recommendations.

TASK 6 - Meetings

- a) Attend weekly progress meetings with BART staff.
- b) Participate in design review meetings at each design level to resolve or clarify comments if requested by BART.
- c) Participate in design issue specific meetings, if required.
- d) Prepare meeting agendas, attendance list, and meeting minutes for all meetings.

TASK 7 - Design Review

- a) Prepare Comment Resolution Form (CRF) for each submittal and respond within two weeks of receipt of all BART comments.
- b) Establish a schedule for the design review period which includes review start date, completion date, date for designer's initial response (letter or number code), and date to complete corrections identified during the review.
- c) Respond to BART staff comments, conduct and attend resolution meetings if required.
- d) Revise Design Documents to reflect review comment resolutions.
- e) Utilize the BART Comment Review Form (CRF) provided by BART to record and manage comments.

2.2 Design Services During Construction

The Scope of Work for Design Services During Construction for the A77 Interlocking Renewal Project includes the following:

- a) Submittal reviews
- b) Responses to Requests for Information (RFIs)
- c) Preparation of Change Notices
- d) Participation in meetings as requested by BART

Prime: PGH Wong Engineering, Inc.

Subconsultant	Amount	DBE (Y/N)	SBE (Y/N)
Parikh Consultants, Inc.	\$ 26,587	Y	Y
WRECO, Inc	\$ 16,784	Y	Y
Towill, Inc.	\$ 145,356	N	N

Total Work Plan Value: \$ 1,180,937