

BART Agreement Number: 6M8176

Approval Date: 03/08/2021

Work Plan: No. B.05-01 – Track Engineering and Maintenance Classes

Scope:

2.0 SCOPE OF WORK

For Class #1: The course should provide participants information and instruction on the design of railroad track, including horizontal and vertical alignment, cross section, turnouts and crossings, component selection, earthwork, drainage, and clearances. The design approaches highlight applicable AREMA standards and general industry practices. The attendee will learn how traffic characteristics affect design characteristics. The course will also focus on track geometry concepts, the most complex aspect of track inspection and maintenance. The attendees will learn techniques for identifying, measuring, and correcting problems with track gage, alignment, and surface.

For Class #2: The course will provide participants information and practice on track components and function, track standards, track measurement, and remedial actions to address unsafe conditions. The course content will incorporate all pertinent BART standards.

Upon completion of this course, trainees will be able to:

- Interpret and apply BART standards to a track inspection record defects appropriately
- Take remedial action on defects
- Determine priority levels as per BART standards
- Review standard practices and apply them to track inspection and define various track/train dynamics concepts

The course must include the following:

- Classroom instruction with appropriate handouts for each participant and hands-on instruction with track measurement tools used by BART
- Testing of knowledge/skills through written test and/or hands-on observation

Training will be held at The Radisson Hotel Near the Oakland Airport. BART will provide classroom space with normal A/V equipment and will secure track time for hands-on training activities.

Prime: PGH Wong Engineering, Inc.

Subconsultant: None.

Total Work Plan Value: \$ 68,365