

BART Agreement Number: 6M8149

Approval Date: 01/19/22

Work Plan No. B.17-02 – Electrical Engineering Design for Station Lighting Upgrade Projects

Scope:

The San Francisco Bay Area Rapid Transit District (BART) is seeking an electrical design engineer who will continue to support Power Systems Design, including Uninterruptible Power Supplies (UPS) and Battery Systems, for the District's station emergency lighting projects. The engineer must be able to read and understand as-built drawings; perform complex electrical engineering calculations; and perform electrical design work for all aspects of power distribution system, including backup power systems, switchboard design, lighting controls, raceway systems, and feeder design. The engineer will be responsible for producing electrical design and documentation as needed to replace existing electrical systems. Specific duties and responsibilities include but are not limited to the following:

- Perform field investigations as needed to support technical design.
- Develop and/or review Single-Line Diagrams, Equipment layout, Conduit Routing for multi-level building and demolition plan, grounding and bonding, and complete technical design drawings.
- Develop and/or review electrical design for all aspects of power distribution system, including backup power systems, switchboard design, lighting controls, raceway systems, and feeder design.
- Meet with BART stakeholders to address design comments.
- Work with BART Maintenance team and/or other departments to understand the scope of work and provide engineering support (including estimates, conceptual design, constructability issues, planning, real estate, sustainability, and customer access).
- Provide engineering support and design verification as needed.
- Coordinate with BART stakeholders, such as:
 - Power Electrical design and Systems design teams
 - BART Mechanical, Systems, Integration Engineering, Civil, Structural, Sustainability, etc.
 - BART Maintenance and other stakeholders, as needed
 - BART Construction Management

Prime: WSP

Subcontractors: None

Total Work Plan Value: \$ 276,599