

**BART Agreement Number: 6M8124**  
**Work Plan No. B.15 – TBT Tunnel Lighting Upgrade**

**Approval Date: 06/01/18**

**Scope:**

The Scope of Services is to provide design and contract specifications, bid schedule and price schedule, and engineer’s cost estimate to remove and replace existing tunnel lights from T-12 lamps to LED lamps, and to reduce in-between spacing from existing 50 feet to 25 feet by installing additional light fixtures. Lighting level must meet California Title 8, of 2.0 foot candles – absolute. This project also removes and replaces the following:

- Existing 4160V-480/277V, 3-phase, with sizes and quantities as indicated for lighting and other panels
- Existing transformers, 480V-208/120V, 3-phase, with sizes and quantities as indicated for lighting and other panels
- Existing 600V cable for 4160V-480/277V, 3-phase, transformers’ secondary feeder and 480V-208/120V, 3- phase transformers’ primary and secondary feeder
- Existing 480/277V, 3-phase panels, sub-panels and associated breakers that feed the tunnel lighting circuits, lower gallery lighting circuits, stairway lighting circuits in OTS and SFTS, and other circuits
- Existing 208/120V, 3-phase panels, sub-panels and associated breakers that feed the upper gallery lighting circuits and other circuits
- Existing tunnel lights, with spacing of 25 feet in between, from Tube Section 1 to Tube Section 57 with new LED lights
- Existing lower gallery lights, with spacing of 25 feet in between, from Tube Section 1 to Tube Section 57 with new LED lights, equipped with 2-level dimmable driver, adjustable up to 90% power reduction with bi-level motion sensor mounted on lens
- Existing upper gallery (exhaust air duct) lights. Add an estimated additional 50 LED lights, one at each Cathodic Protection Top Hat area
- Existing manual switches for upper gallery lights
- Existing yellow lights identifying the location of the cross-passage doors with new LED lights

**Prime:** WSP USA Inc.

<b>Subconsultant</b>	<b>Amount</b>	<b>DBE (Y/N)</b>	<b>SBE (Y/N)</b>
SEM	\$69,368	N	Y

**Total Work Plan Value:** \$365,987