

**BART Agreement Number: 6M8146**

**Approval Date: 10/21/22**

**Work Plan No. A.13-01 Non-Revenue Electric Vehicle Strategic Planning**

**Scope:**

The pilot is important to understand BART’s EV operational requirements, vehicle ease of use, selection and to explore the feasibility and requirements for scaling the fleet and charging infrastructure to meet the 5-to-10-year plan.

Phase 1 will concentrate on the electrification plan and the selected pilot vehicle types for operational purposes only, covering the” Pilot Vehicles” as detailed in that section of this document.

Phase 1 general scope activities include the following:

- Research and produce an option selection report for the manufacturer and type of charging infrastructure. Include available ownership models (BART owned, charging as a service, and third party owned) and provide a cost benefit analysis and pros and cons.
- Recommend an ‘off the shelf’ solution with the required scalable functions to avoid any abortive cost.
- Charger selection at this stage will be applicable for all applications to reduce differing asset type and avoid unnecessary maintenance liability.
- Research and develop the wider charging infrastructure strategy looking at operational requirements, feedback from EV’s in use and emerging technologies. Focusing on the feasibility of utilizing the traction power network where possible and throughout. Engage with BART’s electrical engineers to understand requirements and receive concurrence.

**Prime:** Parsons Transportation Group

**Subconsultants:**

<b>Subconsultant</b>	<b>Amount</b>	<b>DBE (Y/N)</b>	<b>SBE (Y/N)</b>
NRC	\$283,218	N	N

**Total Work Plan Value:** \$359,798