**Automobile Service Repair Underground Storage Tank Fuel Line Cathodic Protection**

**Location:**

Rayburn Correctional Center

27268 Highway 21 North

Angie, LA 70426

**Scope of Work:**

Contractor shall provide all equipment, labor, tools, and materials to remove one (1) existing rectifier and six (6) impressed current anodes, and replace with new.

**Requirements:**

* Contractor shall remove existing rectifier and replace with one (1) ES-11 20V-10A rectifier with ammeter and voltmeter, or equal.
	+ If not bidding as specified, please specify rectifier bidding:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Rectifier requirements:
	+ To be one hundred twenty (120) volt, AC single phase input
	+ To have circuit breakers, no fuses
	+ To have a heavy-duty case for post or wall mount
	+ To have a cabinet that opens allowing total access to components
	+ To have a voltmeter and ammeter
	+ To have eighteen (18) step voltage control taps
	+ To have silicon rectifying elements
	+ To have AC and DC lightning protection
	+ To have an AC input thermal block
	+ To have accessible front panel total precision shunt
	+ Standard outputs: 6V-5A, 6V-10A, 12V-5A, 12V-10A, 20V-5A, 20V-10A, 30V-5A, 40V-5A
* Contractor shall install one (1) eight (8) anode, three (3) tank junction box near rectifier.
* The six (6) existing anodes are buried beneath a slab of concrete approximately twelve (12) inches by twelve (12) inches and approximately eight (8) inches deep. Contractor shall remove the existing concrete covering the anodes.
	+ Concrete to be moved and piled to location on site for agency disposal.
* Contractor shall remove the six (6) existing impressed current anodes and dispose of the anodes.
* Contractor shall install six (6), three (3) inch by sixty (60) inch, impressed current anodes with one hundred fifty (150) foot #10 cable. Impressed current anodes shall be constructed of mixed metal oxide, or equal.
	+ If not bidding as specified, please indicate anode material:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Contractor shall cut a trench in existing concrete approximately two (2) inches deep, three-sixteenths (3/16) inches wide, and one hundred fifty (150) feet long for #10 cables to be run into.
	+ After #10 cables have been run, contractor shall terminate all electrical connections from anodes to existing underground piping and new rectifier.
	+ After cable has been connected, contractor shall fill trench with waterproof protective sealant.
	+ Contractor shall install new twelve (12) inch by twelve (12) inch by eight (8) inch concrete square cover for new anodes. Concrete shall be level with the existing slab.

**Other Requirements:**

* Employees for contractor must pass background check before they are allowed entry into facility.
* Contractor shall be responsible for removal and cleanup of all debris resulting from work performed (excluding concrete).
* Contractor shall provide documentation showing that system is operating within parameters set forth by DEQ UST division before job is considered complete.
* Contractor must be on DEQ approval list for installation, repair, diagnostic, and testing of UST {underground Storage tank} system for fuel storage at the time of the bid opening.