

**CITY OF LAREDO
HIGH SERVICE PUMP VFD AND POWER FACTOR CORRECTION
JEFFERSON STREET WATER TREATMENT PLANT CITY OF
LAREDO, TEXAS
(Project #: T1818) ADDENDUM**

NUMBER 2

March 8, 2019

The Contract Documents and Specifications for the above referenced project are amended and revised as indicated in this Addendum. Any proposal submitted in response to the invitation to the bidders shall be prepared accordingly.

Clarification:

For the above referenced project, all requirements as indicated in plans and specs dated February 2019 remain unchanged, except for items 1, 2 and 3 listed in this addendum.

Item No. 1: Specification Section B-1 – Contract time and Liquidation Damages

The contract performance for this project shall be 270 working days.

Item No. 2: A/C Unit Schedule

Please note the attached HVAC Unit schedule (Attachment **A**).

Item No. 3: FOR CLARIFICATION- Specification Section 262964 Medium Voltage Variable Frequency Drives (VFDs)

2.10 Operator Interface/Communications:

The Contractor shall secure the services of an Instrumentation and Control System subcontractor (ICSC) to coordinate the network connection between the SCADA system and each VFD and to modify the SCADA programming to execute the Sequence of Operation described in the Contract Documents. The ICSC contractor shall be familiar with the existing SCADA program, having worked on the system within the past 2 years, and be acceptable to the Owner.

Please note the scope of ICSS & any SCADA work is very limited. The integration of the VFD programming and the existing plant SCADA system programming shall be the responsibility of the contractor. Attachment **B** includes City of Laredo ICSC qualifications for reference only.

Enclosed:

Attachment A
Attachment B

END OF ADDENDUM NO. 2

TEXAS ENERGY ENGINEERING SERVICES, INC.
(d/b/a TEESI Engineering) – TBPE #F-3502
1301 S. Capital of Texas Highway, B-325, Austin, Texas 78746, Ph #: (512) 328-2533 5819
McPherson Road, Suite #7C, Laredo, Texas 78041, Ph #: (956)-724-1605

A/C UNIT SCHEDULE						
MARK	NOM. TONS	MIN. EER	MAX MCA	MIN MOCP MAKE	SERIES	NOTES
AC-831	3	10	10	15 BARD	W48	
AC-832	4	10	14	20 BARD	W48	
AC-833	4	10	14	20 BARD	W48	

GENERAL NOTES

G1 REFER TO SPECIFICATIONS.

G2 EXTERIOR WALL MOUNTED, THRU-WALL SUPPLY AT TOP, RETURN LOWER, INCLUDE FACTORY GRILLES.

G3 PROVIDE WITH DB ECONOMIZER.

G4 PROVIDE WITH COMPLETE SET OF WALL BRACKET AND SEAL ACCESSORIES.

Thomas R. Glen PE

02/28/2019

ATTACHMENT B
(page 1 of 2)

1.00 ICSC Qualifications

- A. Regulatory Requirements:
 - 1. Perform all instrumentation and control Work, whether needed for the power, control system, process, HVAC, telephone, security, etc. in accordance with all codes and standards required by Division 17.

- B. Manufacture instruments at facilities certified to the quality standards of ISO 9001 - Quality Systems - Model for Quality Assurance in Design/Development, Production, Installation and Servicing.

- C. ICSC Qualifications:
 - 1. General information on the proposing company:
 - a. Provide verification of Proficy Process System Certification for the personnel selected to implement this project.
 - b. Document that the ICSC company has been actively involved in the instrumentation, PLC based control systems, and SCADA systems business for a minimum of five years and has adequate facilities, organization structure, manpower and technical and managerial expertise to properly perform the Work in conformance with these Specifications.

 - 2. Similar project experience of the company:
 - a. Provide a list of at least 3 successfully completed projects for a water and/or wastewater system of similar scope and complexity in which the proposing firm used components the same as those intended for use on this project. The proposing firm must have performed, for each listed project, system engineering, system fabrication and installation, documentation (including schematic, wiring and panel assembly drawings), software configuration and documentation, field-testing, calibration and start-up, operator instruction and maintenance training. In addition, provide the following information for each project:
 - 1) Name of plant or system owner, contact name, and current telephone number. Design engineer's name, address, and telephone number. Failure to provide current contact information may result in the listed project being disqualified for use in meeting the minimum requirements.
 - 2) Manufacturer and model number(s) of the PLC based control system and the computer-based SCADA system used for both hardware and software.
 - 3) Brief description of the system.
 - 4) Approximate number of input and output signals: analog, digital, and field bus.
 - 5) Brief application software description.
 - 6) Contracted cost of the system, separate by base amount and any change orders for the completed projects.
 - 7) Duration of the project and date of completion.

 - 4. Information on the proposed project team members:
 - a. Provide the name and resume of the individual persons who will be responsible for each of the following:
 - 1) Office engineering and management of this project.
 - 2) Lead for software configuration/programming.
 - 3) Individual who will be responsible for the hardware and hardware interface design.
 - 4) Individual who will be responsible for field-testing, calibration, start-up.

- 5) Individual who will be responsible for operator training.
 - 6) All of these individuals must be permanent employees of the proposing firm.
5. Determination of the proposed ICSC qualifications is at the sole discretion of the ENGINEER.
- D. Furnish all equipment listed by and bearing the label of Underwriters' Laboratories, Incorporated (UL) or of an independent testing laboratory acceptable to the ENGINEER and the Authority Having Jurisdiction.
- E. Instrumentation and Control System Subcontractor (ICSC):
1. The CONTRACTOR, through the use of a qualified ICSC, is responsible for the implementation of the PCIS and the integration of the PCIS with other required instrumentation and control devices.
 2. The ICSC assumes full responsibility, through the CONTRACTOR, to perform all work to select, furnish, install, program, test, calibrate, and place into operation all instrumentation, controls, telemetry equipment, control panels, and SCADA system including application software, for a complete, integrated and functional PCIS system.
 3. Due to the complexities associated with the interfacing of numerous control system devices, it is the intent of these specifications that the ICSC be responsible for the integration of the PCIS with existing devices and devices provided under other Sections with the objective of providing a completely integrated control system.