

Project Description

The Tamiami wellfield consists of 39 raw water wells which provide a portion of the raw water supply to the South County Regional Water Treatment Plant and North Collier Regional Water Treatment Plant through a Raw Water Booster Station. There are several variations of well configurations throughout the 39 wells. Two types of well sites are included in this project group, the first type are well house sites, the second type are remote well vault sites. Sites 11 and 14 are well house sites. Sites 9,10, 12, 13, 15 and 16 are well vault sites. The well house sites are where the electrical services originate from, they provide power to the remote well vault sites.

Tamiami well sites 6-16 were originally constructed around 1987. The sites received stand-by generator systems and telemetry/control systems in 1993. Most recently, the sites received electrical improvements in late 2007. Well house 14 is currently undergoing a generator and Automatic transfer switch upgrade.

The documents included for this bid are intended to provide the information by which prospective contractors may understand the requirements of Collier County relative to the Tamiami Wells 11 & 14 MCC Replacement.

The specifications and drawings provided for this bid, reference work related to 8 of the Tamiami Well Sites. The actual work included for this solicitation is limited to 4 of the 8 sites.

1. Remote Wells 9,10 & 12
 - a. This project includes the electrical, surveying and mechanical work for the installation of new variable frequency drives, programmable logic controllers and valve modifications. All work is described in the plans and specifications.
2. Wellhouse 11
 - a. This project includes the electrical, mechanical, structural and HVAC work for the installation of new variable frequency drives, programmable logic controllers, valve modifications and louver installation. new variable frequency drives, programmable logic controllers and valve replacement. All work is described in the plans and specifications.
3. Remote Wells 13,15 & 16: No work required under this project.
4. Wellhouse 14: No work required under this project.

Scope of Work

Project to be completed as described in the Specifications and Drawings included with this solicitation with the following modifications intended to clarify that for this project the work only involves Wells 9,10,11 & 12.

1. Specifications
 - a. Section 01110
 - i. Delete all references to Wells 13, 14, 15 and 16.
 - b. Section 26 05 00
 - i. Paragraphs 1.01 B 2 through 4 quantity shall be revised to (4) in lieu of 8.
 - ii. Paragraphs 1.01 B 7 & 8 delete reference to Well 14.
 - iii. Paragraphs 1.01 B 12 revise to wells 9-13 in lieu of 9-16.
2. Drawings
 - a. This project only includes Wells 9,10,11 & 12. Delete all references to Wells 13,14,15, & 16.

Summary of Work

This current solicitation only includes Wellhouse 11 and Wells 9,10,11 & 12. Delete all references to Wellhouse 14, Wells 13,14,15, & 16.

1.

- a. Removal of the existing MCCs and replacement with Main Distribution Panelboard (MDP).
- b. Installation of VFDs and miscellaneous electrical equipment at Wells 9-13 (inclusive).
- c. Installation of PLC panels at Wells 9-13 (inclusive).
- d. Installation of fiber optic cable, termination of fiber optic cable and County IT fiber conversion cabinet at Wells 9,10,12&13 (inclusive).
- e. Removal and replacement of power conduit and wire at Wells 9-13 (inclusive).
- f. Complete Arc Flash Analysis of each electrical service site and the associated remote well sites. Service sites at Wellhouses 11.
- g. Modification of the existing Bermad control valves at Wells 9-13 (inclusive).
- h. Miscellaneous piping and valve cleaning and coating as identified at Wells 9-13 (inclusive).
- i. Demolition and installation of new wall and roof top louvers at Wellhouse 11.
- j. Miscellaneous site work at Wells 9-13 (inclusive). This shall include, but not be limited to, preconstruction and post construction surveys.

The Contractor shall refer to the entire Solicitation Documents for a more complete description of the Work.