



Invitation to Bid  
October 18, 2023

The City of DeFuniak Springs will be accepting sealed bids for improvements to SCADA systems for water & wastewater utilities. Bids will be accepted at City Hall located at 1350 Baldwin Ave, P.O. Box 685, DeFuniak Springs, FL 32433 until **2:00 p.m. CT Monday November 6, 2023**. Bids will be opened on **Monday November 6, 2023, at 2:00 p.m.** at City Hall in the Council Chambers located at 1350 Baldwin Ave. Bids shall be clearly marked on the outside of the envelope, "City Clerk Andrea Jarrard; Sealed Bid – SCADA Improvements." Any bids received after 2:00 p.m. CT on the above date will not be accepted and will be returned unopened to the bidder.

You can obtain a copy of the specifications at <https://www.defuniaksprings.net>, City Hall, 1350 Baldwin Avenue, DeFuniak Springs, Florida 32433, or by calling Andrea Jarrard, City Clerk, at 850-892-8500 Ext. 1103.

The City of DeFuniak Springs reserves the right to reject any and all bids, waive any formalities, and award in the best interest of the City of DeFuniak Springs. The City of DeFuniak Springs is an Equal Opportunity/Affirmative Action/ADS Employer and a Drug Free Workplace.

THE CITY OF DEFUNIAK SPRINGS

Mike Barker, City Manager

## General Requirements

- The supplier must be a VTScada Advanced Certified Partner as listed at [Find a Local Integrator \(vtscada.com\)](http://vtscada.com) from VTScada's Official Website.
- The Supplier must have 10+ years in the SCADA Industry.
- The Network Backbone must utilize Cellular communications with dual/redundant carriers. For security, the cellular sim cards must utilize both Verizon and AT&T Private Cloud Networking that completely protects each site from the Public Internet. The Data must be transported via military grade secure VPNs.
- Each site or monitor shall utilize 100% non-proprietary SCADA RTUs. Each RTU must be 100% Industrial Quality Components rated to at least 140F.
  - PLC (Allen Bradley) as the system currently utilizes
  - Power Supply
  - Surge Protector
  - Cellular Modem
  - Terminals for each input and output as required for system operations
  - Battery Backup
  - Pressure Transducer for Level and Flow
  - CTs for Each Pump to Record Amps
  
- All Programs and Configuration files and passwords must be supplied to the owner.
- The intent of the RFP is to allow the municipality to acquire a modern, cost effective, and self-supported SCADA system.
  - The complete system up to the HMI shall be self-configuring after the Monitor / RTU has been configured in the field.
  - The system supplier shall create a VTSCADA lift station template based on approval of the owner. The owner must have access to every detail of the template.
  - Adding new sites to the SCADA system shall be a cut, copy, paste function in VTSCADA.
  - The system supplier shall train the owner on this VTSCADA functionality.
  - The supplier must be a VTScada Advanced Certified Partner as listed at [Find a Local Integrator \(vtscada.com\)](http://vtscada.com) from VTScada's Official Website.
- System startup shall be performed by a direct employee of the system supplier.
- Proposal scoring and evaluation \*\*\*\*\*(Municipality to determine this section typically handled by purchasing department)\*\*\*\* Example breakout
  - 25% ability to meet proposal intent
  - 25% previous relationships with the Municipality and SCADA services for the Municipality
  - 25% overall price
  - 15% System supplier support, location, and qualifications
  - 10% additional cost per unit for communications

## **Monitoring Device Requirements and I/O**

**They Turn-Key Solution must include and the hardware needed for the complete monitoring, alarming, trading, and reporting of each of the following points:**

- Pump Running Status
- Motor Amp Draw
- Pump Fail to Start and Fault Alarms
- Runtimes
- Cycles
- High Float
- Pump Running too long
- Runtime Reset
- Cycle Count Reset
- Power Loss
- The Level
- Advanced virtual flow meter logic
- Advanced pump efficiency logic (including each pumps calculated gpm per cycle)

**The hardware must be installed and tested per the turn-key requirements**

### **Additional Requirements:**

- The supplier must integrate VTScada with the users HACH solution as part of this project.
- The supplier must integrate VTScada with the users Work-Order solution as part of this project.
- The supplier must include option for Bypass Pump Status, live camera monitoring, and additional I/O the customer may desire in the future that is not listed here – such as Check-In Button for Operators to show the last time the station was visited....