***PROPOSAL***

July 17, 2023

Submitted To: Jessie Cox

Water System Supervisor

City of Senoia, GA

Regarding: Senoia Water Plant

Rock-A-Way Road

Electrical Upgrades

Jessie,

We are pleased to furnish the following proposal for your use. This proposal is based on information gathered from site visits and from information from you regarding future equipment needs for the plant. Included are costs for labor, materials, and equipment necessary to complete the electrical portion of the project as described below. All new electrical distribution equipment will be located in the new electrical room.

It should also be noted that the plant's current voltage system is a 480V Delta Ungrounded system. Theses systems have specific requirements listed in the National Electrical Code regarding proper labeling, ground fault indication, and other means and methods for the protection and safety of people and equipment. The new voltage system will be a 480/277 Volt Wye configuration which is the industry standard and is more safe to work with for maintenance staff and better for the newer equipment of today.

**Scope Of Work - Electrical**

**1.** Furnish and install (1) new 1200A, 480/277V 3-phase 4-wire service entrance from new pad mounted utility transformer to the new electrical room. New transformer will be located in close proximity to the existing utility pole.

**2.** Furnish and install (1) new Main Service Disconnect (MSD). The MSD will be a 1200A, 3-pole, fusible disconnect switch. MSD will be fused at 1200A.

**3.** Furnish and install (1) new 1200A 480/277V 3-phase 4-wire Main Distribution Panel (MDP). This panel will feed all existing 480 volt equipment, pumps, and other loads. The MDP will also contain breakers to feed future equipment (3 - 200HP HSP's)

**4.** Install (1) new 1200A rated Automatic Transfer Switch (ATS). The ATS is to be furnished by others.

**5.** Furnish and install power wiring and control wiring for (1) new 450KW Generator. The Generator is to be furnished and set in place by others.

**6.** Furnish and install (1) new Motor Control Center (MCC). This MCC will contain Soft Start motor starters for the existing pumps with spare buckets for future pumps 40HP and less. This MCC will not contain starters for the future 200HP HSP's. The 200HP VFD's or starters are to furnished with the new 200HP pumps.

**7.** Furnish and install (1) new 75KVA transformer to feed (1) new 208/120V Panel. This transformer will replace the existing 45 KVA transformer.

**8.** Furnish and install (1) new 225A 208/120V 3-phase 4-wire panel (Panel L1). Panel L1 will feed all existing 208/120V loads such as receptacles, lighting, HVAC equipment, and miscellaneous loads.

**9.** Re-wire all existing plant electrical equipment to new electrical distribution equipment. All existing wiring will be intercepted at the current panel locations inside the plant. Junction boxes will be mounted on the wall where existing circuits can be extended over to new distribution equipment in new electrical room.

**10.** Disconnect and remove all existing electrical distribution equipment after it has been de-commissioned.

**11.** Disconnect and remove old existing generator.

Total Proposed Electrical Installation Cost: $ 356,797.00

Total Proposed Engineering/Design Fees: $ 17,840.00

**Total Proposed Electrical Budget Price: $ 374,637.00**

**Gear Package Lead Times**

*\*After Receipt of Order and Approved Submittals*

Main Service Disconnect: 8 to 12 weeks to ship

TVSS: 6 to 8 weeks to ship

Panel MDP: 45 to 50 weeks to ship

Panel L1 & Transformer: 18 to 22 weeks to ship

MCC: 48 to 52 weeks to ship

Proposal Notes

1. Generator and ATS are to be furnished by others. Both wired by Shenandoah.

2. Generator to be set in place by others. Generator Pad to be furnished and installed by Shenandoah/Headley.

3. Material Pricing included in this proposal is based on current market pricing and is subject to change.

4. Labor costs are based on current area labor rates. The Davis Bacon Wage Act is NOT considered in this proposal.

5. Utility Fees and/or Permit Fees are unknown and not included at this time.

If you should have any questions or need additional information, please don't hesitate to contact me.

Sincerely,

Jimmy McGuffey

Shenandoah Electrical Services, Inc.