EXHIBIT A

City of Rapid City
Supervisory Control and Data Acquisition (SCADA) improvements associated with the Water Reclamation Facility Digester MCC and UV/Admin. Transfer Switch Replacement, Project No. 19-2485/CIP No. 51216

Introduction

The City recently awarded a project to MAC Construction Company, Inc. (MAC) to replace the Digester MCC and UV/ADMIN. Transfer Switch at the City’s Water Reclamation Facility. This Contract consists of providing professional services related to the design, integration, and installation of new and/or upgraded Water Reclamation SCADA hardware and software components. The work includes integration of new systems installed by MAC and loop checks of all I/O points for devices that are to be rewired.

Scope of Work

Task 1-Digester MCC Replacement

- Coordinate with MAC regarding construction schedule and progress.
- Field verification of I/O points to PLC.
- Field verification of I/O communication with SCADA.
- Reprogram Digester Pumps with 24hr time clock logic when operating in auto position.

Task 2-ADMIN/UV Transfer Switch Replacement

- Coordinate with MAC regarding construction schedule and progress.
- Update and program new status points into SCADA. Status points will be wired to the Flex I/O located in the UV building.
- Program new ATS power meter into SCADA for alarming and display. Supply and install new Ethernet switch in Flex I/O panel located in UV Building.

Task 3 – Supplemental SCADA System Services

This task is for supplemental services on an as-needed basis. These services could include but are not limited to assisting the Owner regarding SCADA system components being furnished and installed by MAC, notify the Owner and Owner’s Engineer (HDR) of potential issues or short comings related to the project SCADA system, and other consultation services. A fee allowance is established under Exhibit B for this task. If supplemental services are requested by the City, a proposal will be completed that defines deliverables and estimates the level of effort required to complete the supplemental services. The City will then review and comment or accept the proposal. Work on this task will only commence after being approval by the City Project Manager and will be billed on a time and materials basis.
EXHIBIT B

City of Rapid City
Supervisory Control and Data Acquisition (SCADA) improvements associated with the Water Reclamation Facility Digester MCC and UV/Admin. Transfer Switch Replacement, Project No. 19-2485/CIP No. 51216

Fee Estimate:

Task 1-Digester MCC Replacement

- Coordinate with MAC regarding construction schedule and progress.
- Field verification of I/O points to PLC.
- Field verification of I/O communication with SCADA.
- Reprogram Digester Pumps with 24hr time clock logic when operating in auto position.

Task 1 Lump Sum $3,600.00

Task 2-ADMIN/UV Transfer Switch Replacement

- Coordinate with MAC regarding construction schedule and progress.
- Update and program new status points into SCADA. Status points will be wired to the Flex I/O located in the UV building.
- Program new ATS power meter into SCADA for alarming and display. Supply and install new Ethernet switch in Flex I/O panel located in UV Building.
- Materials (assumed $100.00)

Task 2 Lump Sum $2,500.00 (Note: includes $100.00 for materials).

Task 3 – Supplemental SCADA System Services

This task is for supplemental services on an as-needed basis. These services could include but are not limited to assisting the Owner regarding SCADA system components being furnished and installed by MAC, notify the Owner and Owner’s Engineer (HDR) of potential issues or short comings related to the project SCADA system, and other consultation services. A fee allowance is established under Exhibit B for this task. If supplemental services are requested by the City, a proposal will be completed that defines deliverables and estimates the level of effort required to complete the supplemental services. The City will then review and comment or accept the proposal. Work on this task will only commence after being approval by the City Project Manager and will be billed on a time and materials basis.

- Controls Engineer to be billed out at $120.00/hour. Assume 6 hours for a maximum not to exceed amount of 6 hours x $120.00/hr. = $680.00

Total maximum not to exceed fee amount (Tasks 1-3) = $6,780.00