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Effingham County Board of Commissioners
Tim Callanan
County Manager
804 South Laurel Street
Springfield, GA 31329

Date: June 17, 2024

RE: Engineering Evaluation of the Effingham County Goshen Commercial Park Well System

Dear Mr. Callanan:

Thank you for the opportunity to submit a proposal for the **Engineering Evaluation of the Effingham County Goshen Commercial Park Well System (System)**. Our team is composed of professionals committed to meet your needs and the goals for that will be established for the project. We have prepared this proposal for your review and look forward to working with you throughout this evaluation.

In accordance with our conversations, we have the following understanding of the Project Scope and the primary work items requiring our involvement:

PROJECT SCOPE:

Currently Effingham County owns a well located at Goshen Commercial Park Road in South Effingham County, GA. The well is currently not in operation. It is our understanding that your well system is permitted for 539,000 Gallons Per Day (GPD) monthly average and 335,000 GPD annual average beginning in January 2025. Also, there is the GITC 500,000-gallon elevated storage tank, serving several warehouses in the GA International Trade Center. In addition, there is currently an apartment community, Leo at the Sanctuary, located on Old Augusta Road and other residential and commercial properties to be served in the area. Existing properties are currently served with Savannah I&D surface water.

GMC will evaluate the feasibility of providing the service area, including the properties noted above, with groundwater.

A. SCOPE OF SERVICES:

Below is the scope as we understand it:

Task 0 - Project Management

Project management will consist of all meetings associated with the scope of work. GMC will perform the following Project Management tasks:

- Kick-off Meeting to discuss information and data required to be provided by the County to complete the evaluation (Completed on 06/05/24)
- WS1: Recommendations Workshop



Task 1 – Site Visit & Data Review

GMC will conduct site visits and review pertinent data. Site Visit and Data Review Tasks include:

- Site visit of the Goshen Commercial Park well site and GITC Tank
- Evaluate existing GIS information on the water system, demand data, record drawings, well data and tank data for the service area

Task 2 - Demand Projections and Capacity Analysis

Task 2 consists of the review of existing and development of projected water demands for the service area. GMC will perform the following Demand Projections and Capacity Analysis tasks:

- Develop and define planning window
- Review/update population and demand projections
- Develop and define future demands
- Analyze & document well and tank capacities

Task 3 – Hydraulic Modeling

Based on existing GIS information on the water system, demand data, well data and tank data, GMC will prepare a hydraulic model for the service area distribution system using WaterGEMS by Bentley. Modeling tasks will include:

- Well, Tank and Distribution System Data Assessment
- Preparation of a hydraulic model of the water system infrastructure for the service area using WaterGEMS by Bentley
- Model Calibration by simulating existing fire flow conditions, water supply records, anecdotal information obtained from operations staff, and pressure readings taken by GMC in the field.

Task 4 – Water System Evaluation & Technical Memo

GMC will evaluate the feasibility of providing the service area with groundwater.

GMC will perform the following Water System Evaluation tasks:

- Alternative analysis for service of the area with groundwater
- Perform cost analysis of service alternatives
- Development of Technical Memo (TM1)
- Receive and address comments from Recommendations Workshop
- Delivery of final version of TM1

B. ASSUMPTIONS/EXCLUSIONS:

Assumptions:

- Requested pertinent information is supplied by County

Exclusions:

- System Permitting and Testing
- Site survey
- Geotechnical investigation
- Design and construction

Separate costs will be provided to perform these services, if required, once a specific proposed project has been identified.



B. COMPENSATION:

We propose performing the work illustrated above under the “Scope of Services” section in accordance with the below cost breakdown.

Task	Basic Services Fee
Task 0 - Project Management	\$ 3,800.00
Task 1 – Site Visit & Data Review	\$ 6,400.00
Task 2 - Demand Projections & Capacity Analysis	\$ 4,700.00
Task 3 – Hydraulic Modeling	\$14,900.00
Task 4 – Water System Evaluation Report (TM1)	\$11,800.00
Total	\$41,600.00

PAYMENT TERMS:

Professional services will be invoiced monthly in accordance with the status of the work. Payment is due 30 days from the invoice date, and is consider past-due thereafter. Past-due invoices will accrue interest at a rate of one percent (1%) per month.

C. PROJECT SCHEDULE:

We propose performing the work illustrated above under the “Scope of Services” section in **90 Days**. We will commence the work within 14 days after receiving the signed agreement.

We appreciate the opportunity to work with you over the course of this project, and trust our proposal is consistent with your expectations. Please feel free to contact me at your convenience to discuss the terms of this proposal and any questions or concerns you may have.

Sincerely:

GOODWYN MILLS AND CAWOOD, LLC.

James C. Vaughn, P.E.
Engineering Market Leader

Wesley Corbitt, Chairman
Effingham County Board of Commissioners

Approval Date