

TASK ORDER NO. 1
BETWEEN
OWNER AND CONSULTANT
FOR PROFESSIONAL ENGINEERING SERVICES

FURTHER DESCRIPTION OF BASIC ENGINEERING SERVICES,
AND RELATED MATTERS

This Task Order is hereby included as an addition to and incorporated as part of the Agreement for Engineering Services dated October , 2016 between the TOWN OF PITTSBORO (Owner or Town), and MCGILL ASSOCIATES P.A. (McGill or Consultant) for professional engineering services on the following project:

Chatham County/Town of Pittsboro
Water System Interconnection Hydraulic Evaluation

Consultant will provide professional engineering services associated with performing a hydraulic evaluation and generating a summary report associated with one or more water distribution system interconnections between Chatham County (County) and the Town. Based on a recent meeting with representatives from all three (3) parties, Consultant understands the following:

- The two (2) systems are presently interconnected near the Bynum community, but this interconnection is currently closed and has not been opened in many years. County and Town staff members are both concerned about opening the interconnection without fully understanding the hydraulic impacts to both systems.
- The primary purpose of the proposed evaluation is to analyze alternatives and determine the estimated costs associated with constructing a functional interconnection (or multiple interconnections) that allows the Town to purchase up to 2 million gallons per day of water from the County. The Town will utilize this information to further evaluate and compare the interconnection alternative(s) against the option of a water treatment plant expansion.

- The existing interconnection was originally installed to allow the Town to sell water to the County, and its feasibility to provide water from the County to the Town is unknown at this time.
- The proposed evaluation will involve the use of both the County's and the Town's existing hydraulic models. Consultant understands that the Town has an accurate, working model of their current distribution system, and that a third party engineer (McKim and Creed) has developed an updated hydraulic model of the Town's distribution system that includes two (2) proposed elevated water storage tanks that will soon be part of the Town's system.

1. The Basic Services of Consultant for this Task Order are as follows:

1. Meet with representatives from the County and the Town to initiate communications, define schedules, discuss approvals, gather initial data and information, and to fully determine the technical requirements for the project.
2. Obtain a copy of the Town's existing hydraulic model, and incorporate the model into the County's model. Consultant has assumed in this proposal that the Town or their designee will provide McGill with an electronic WaterCAD version of the Town's model that includes existing pipes, tanks, and other critical existing infrastructure, as well as the proposed future tanks and related developer installed infrastructure. Consultant also assumes that the model will include accurate current and future demands, accurate existing ground elevations for all junctions, and that the model is calibrated and reliable for McGill to perform the requested interconnection hydraulic analysis.
3. Run the combined model, and report any discrepancies or needs with the Pittsboro model to the Town or their designee. Consultant assumes that any significant modifications made to the Town's model will be performed by the Town or their designee, and not by McGill.
4. Provide a listing of recommended hydrant test locations to both County and Town staffs for their respective systems. County and Town staff shall then be responsible for performing the hydrant tests and providing the results to McGill. Additional hydrant tests may be recommended by McGill to each system owner after the initial tests for the purposes of achieving final calibration.
5. Utilize the combined model to evaluate potential interconnections between the two (2) systems. The evaluation will include needs for infrastructure upgrades (piping upgrades, piping extensions, booster pumping stations, etc.), estimated costs associated with each upgrade, and potential advantages/disadvantages for each option. Alternatives proposed for this evaluation shall include:

- a. Analysis of the current interconnection in Bynum and its potential use to provide water from the County system to the Pittsboro system.
 - b. Analysis of a potential extension from the County's existing 16-inch transmission main on Highway 902 to interconnect with the Pittsboro system on the southwest side of Town.
 - c. Analysis of a potential extension and upgrade from the County's existing 6-inch line along Highway 15-501 to interconnect with the Pittsboro system on the south side of Town.
6. Summarize the results of the analysis in a letter-style report, and provide a Draft copy to the County and Town for review. Consultant anticipates participating in one (1) additional meeting with Town and County staff to review the Draft Report and answer any questions. Addressing additional comments or questions beyond this meeting will be considered additional services to this proposal.
 7. Incorporate applicable comments from Town and County staff into the Draft Report, and provide a Final signed copy of the document. Consultant assumes that any presentations to Town or County elected officials will be performed by others, but McGill staff is available to attend and/or participate in any presentations as Additional Services to this proposal.

2. The responsibilities of OWNER are as follows:

- Provide background information, including a copy of the Town's existing hydraulic water model, to Consultant as requested.
- Provide timely feedback and review as requested.
- Pay for requested Additional Services as outlined in the Master Services Agreement between Pittsboro and McGill in accordance with the attached Basic Fee Schedule.

3. The method of payment for services rendered by Consultant shall be set forth as follows:

TASK	LUMP SUM FEE
Hydraulic Evaluation and Letter-Style Report	\$9,800

4. TOWN has established the following special provision and/or other consideration or requirements in respect to Task Order No. 1.

None.

IN WITNESS WHEREOF, the parties have executed this Task Order on this _____ day of _____, 2016.

TOWN OF PITTSBORO

By: _____

Name: Bryan Gruesbeck

Title: Town Manager

Date: _____

MCGILL ASSOCIATES

By: Mike S. Apke

Name: Mike Apke, P.E.

Title: Principal

Date: 10-12-16



BASIC FEE SCHEDULE

December, 2015

<u>PROFESSIONAL FEES</u>	<u>Hourly Rate</u>
Firm Principal	\$185.00
Program Services Manager I	\$145.00
Program Services Manager II	\$160.00
Senior Project Manager I	\$160.00
Senior Project Manager II	\$170.00
Project Manager I	\$140.00
Project Manager II	\$150.00
Project Engineer I	\$105.00
Project Engineer II	\$115.00
Project Engineer III	\$125.00
Engineering Associate I	\$ 85.00
Engineering Associate II	\$ 90.00
Engineering Technician I	\$ 80.00
Engineering Technician II	\$ 90.00
Engineering Technician III	\$100.00
Environmental Specialist I	\$ 80.00
Environmental Specialist II	\$ 90.00
Electrical Engineer I	\$105.00
Electrical Engineer II	\$115.00
Electrical Engineer III	\$125.00
Electrical Engineering Associate I	\$ 85.00
Electrical Engineering Associate II	\$ 90.00
Electrical Engineering Technician I	\$ 80.00
Electrical Engineering Technician II	\$ 90.00
Electrical Engineering Technician III	\$100.00
CADD Operator I	\$ 75.00
CADD Operator II	\$ 80.00
CADD Operator III	\$ 85.00
Construction Services Manager I	\$120.00
Construction Services Manager II	\$130.00
Construction Administrator I	\$ 90.00
Construction Administrator II	\$100.00
Construction Administrator III	\$110.00

Construction Field Representative I	\$ 75.00
Construction Field Representative II	\$ 80.00
Construction Field Representative III	\$ 85.00
Planner I	\$ 95.00
Planner II	\$105.00
Planner III	\$125.00
Planner IV	\$135.00
Surveyor I	\$ 80.00
Surveyor II	\$ 90.00
Surveying Associate I	\$ 70.00
Surveying Associate II	\$ 75.00
Survey Technician I	\$ 70.00
Survey Technician II	\$ 75.00
Survey Field Technician I	\$ 55.00
Survey Field Technician II	\$ 60.00
Survey Field Technician III	\$ 65.00
Administrative Assistant (I-III)	\$ 70.00
Accounting Assistant (I-II)	\$ 80.00

1. **EXPENSES**

- a. Mileage - \$0.65/mile
- b. Robotics/GPS Equipment - \$25/hr.
- c. Telephone, reproduction, postage, lodging, and other incidentals shall be a direct charge per receipt.

2. **ASSOCIATED SERVICES -**

- a. Associated services required by the project such as soil analysis, materials testing, etc., shall be at cost plus ten (10) percent.