



Item: Professional Services Agreement Amendment #2: Water Storage Tank Evaluation, Phase 1, O. F. 1625.0

From: Engineering Division

Initiated By: Public Works Department

Presented By: Jim Rearden, Public Works Director

Action Requested: Consider proposal and approve Professional Services Agreement Amendment #2

Suggested Motion:

1. Commissioner moves:

“I move the City Commission approve the Professional Services Agreement Amendment #2 between the City of Great Falls and Advanced Engineering and Environmental Services, Inc. (AE2S) for engineering services for the Water Storage Tank Evaluation, Phase 1, O. F. 1625.0 for a fee not to exceed \$467,000.00 and authorize the City Manager to execute the agreement.”

2. Mayor calls for a second, discussion, public comment, and calls for the vote.

Staff Recommendation: Approve Professional Services Agreement Amendment #2.

Background:

Significant Impacts

City Staff has negotiated a second amendment to the Professional Services Agreement (attached) with AE2S. Amendment #2 includes completing design work; conducting the bidding process; and providing construction inspection services related to the construction of a new water tower on Gore Hill. Amendment #2 also includes continued construction inspection services for the maintenance work on the Ella Avenue Water Tower, the 33rd Street Surge Tank, and the Skyline Water Tower. AE2S completed an assessment of the Gore Hill Water Tower in 2012 and is currently under contract to review several possible locations for the new water tower and address improvements related to construction of the tank at a new location.

Workload Impacts

AE2S will complete final design for the new water storage tank, and will provide bidding, construction inspection, and administrative services. City engineering and water plant staff will assist with project administration duties.

Purpose

Based on the information collected by AE2S during the water storage tanks assessment completed in 2012, the Gore Hill tank has outlived its useful service life. Rusting has started to develop in several areas inside and outside of the tank. These areas have developed leaks and weakened the overall structural integrity of the tank. Water plant staff has patched five (5) leaks in the tank since last July. The 2012 assessment also determined that the metal is not thick enough to sand blast and recoat.

Project Work Scope

AE2S will design a new water storage tank meeting the criteria established by the Montana Department of Environmental Quality. The design will also include new water main and demolition of the existing tank. AE2S will complete the design for these upgrades and conduct bidding and inspection services.

Evaluation and Selection Process

AE2S was selected for this project based on the company's involvement with the assessment of the existing water tower and the company's ongoing work associated with evaluating possible locations for the new water tower. AE2S has successfully designed and managed similar projects in Montana and surrounding states. The original Professional Services Agreement for inspection and assessment of the water towers was approved by the City Commission on November 7, 2012 in the amount of \$38,617.00. The first amendment to the Professional Services Agreement for designing and inspecting the improvements to the Ella Avenue Water Tower, Skyline Water Tower, and the 33rd Street Surge Tank was approved by the City Commission on September 17, 2013 in the amount of \$317,992.00. The second amendment to the Professional Services Agreement will bring the total engineering services amount to \$823,609.00.

Conclusion

City staff recommends approval of the Professional Services Agreement Amendment #2 to AE2S in the amount of \$467,000.00.

Fiscal Impact

This Professional Services Agreement Amendment #2 will be funded through Water Capital Funds.

Alternatives:

The City Commission could vote to deny the approval of the Professional Services Agreement Amendment #2.

Attachments/Exhibits:

1. Professional Services Agreement Amendment #2.

PROFESSIONAL SERVICES AGREEMENT
AMENDMENT #2

THIS AGREEMENT is made and entered into by and between the **CITY OF GREAT FALLS, MONTANA**, a municipal corporation organized and existing under the laws of the State of Montana, P.O. Box 5021, Great Falls, Montana 59403-5021, hereinafter referred to as “City,” and **Advanced Engineering and Environmental Services, Inc. (AE2S), 300 15th Street South, Suite #7, Great Falls, MT**, hereinafter referred to as “Consultant.”

In consideration of the mutual covenants and agreements herein contained, the receipt and sufficiency whereof being hereby acknowledged, the parties hereto agree as follows:

1. **Purpose:** City agrees to hire Consultant as an independent contractor to perform for City services described in the Scope of Services attached hereto as Exhibit “A” and by this reference made a part hereof.

2. **Term of Agreement:** This Agreement is effective upon the date of its execution through **December 31st, 2016**. Both parties reserve the right to cancel this Agreement by providing a written thirty (30) day notice to the other party. The parties may extend this agreement in writing prior to its termination.

3. **Scope of Work:** Consultant will perform the work and provide the services in accordance with the requirements of the Scope of Services.

4. **Payment:** City agrees to pay Consultant Four Hundred Sixty Seven Thousand Dollars (\$467,000) for services performed pursuant to the Scope of Services. Any alteration or deviation from the described work that involves extra costs will be performed by Consultant after written request by the City, and will become an extra charge over and above the contract amount. The parties must agree upon any extra charges in writing.

5. **Independent Contractor Status:** The parties agree that Consultant is an independent contractor for purposes of this Agreement and is not to be considered an employee of the City for any purpose. Consultant is not subject to the terms and provisions of the City’s personnel policies handbook and may not be considered a City employee for workers’ compensation or any other purpose. Consultant is not authorized to represent the City or otherwise bind the City in any dealings between Consultant and any third parties.

Consultant shall comply with the applicable requirements of the Workers’ Compensation Act, Title 39, Chapter 71, MCA, and the Occupational Disease Act of Montana, Title 39, Chapter 71, MCA. Consultant shall maintain workers’ compensation coverage for all members and employees of Consultant’s business, except for those members who are exempted by law.

Consultant shall furnish the City with copies showing one of the following: (1) a binder for workers’ compensation coverage by an insurer licensed and authorized to provide workers’

compensation insurance in the State of Montana; or (2) proof of exemption from workers' compensation granted by law for independent contractors.

6. Indemnification: To the fullest extent permitted by law, Consultant shall fully indemnify, defend, and save City, its agents, representatives, employees, and officers harmless from and against any and all claims, actions, costs, fees, losses, liabilities or damages of whatever kind or nature arising from or related to Consultant's performance of this Agreement and Consultant's work on the Project or work of any subcontractor or supplier to Consultant.

7. Insurance: Consultant shall purchase and maintain insurance coverage as set forth below. The insurance policy must name the City, (including its elected or appointed officers, officials, employees, or volunteers), as an additional insured and be written on a "primary—noncontributory basis." Consultant will provide the City with applicable additional insured endorsement documentation. Each coverage shall be obtained from an insurance company that is duly licensed and authorized to transact insurance business and write insurance within the state of Montana, with a minimum of "A.M. Best Rating" of A-, VI, as will protect the Consultant, the various acts of subcontractors, the City and its officers, employees, agents, and representatives from claims for bodily injury and/or property damage which may arise from operations and completed operations under this Agreement. All insurance coverage shall remain in effect throughout the life of this Agreement and for a minimum of one (1) year following the date of expiration of Consultant's warranties. All insurance policies must contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused until at least thirty (30) days prior written notice has been given to Consultant, City, and all other additional insureds to whom a certificate of insurance has been issued. All insurance documentation shall be in a form acceptable to the City.

Insurance Coverage at least in the following amounts is required:

1.	Commercial General Liability (bodily injury and property damage)	\$1,000,000 per occurrence \$2,000,000 aggregate
2.	Products and Completed Operations	\$2,000,000
3.	Automobile Liability	\$1,500,000 combined single limit
4.	Workers' Compensation	Not less than statutory limits
5.	Employers' Liability	\$1,000,000
6.	Professional Liability (E&O) (only if applicable)	\$1,000,000 per occurrence \$2,000,000 aggregate

Consultant may provide applicable excess or umbrella coverage to supplement Consultant's existing insurance coverage, if Consultant's existing policy limits do not satisfy the coverage requirements as set forth above.

8. Professional Service: Consultant agrees that all services and work performed hereunder will be accomplished in a professional manner.

9. **Compliance with Laws:** Consultant agrees to comply with all federal, state and local laws, ordinances, rules and regulations, including the safety rules, codes, and provisions of the Montana Safety Act in Title 50, Chapter 71, MCA. As applicable, Consultant agrees to purchase a City safety inspection certificate or special business license.

10. **Nondiscrimination:** Consultant agrees that all hiring by Consultant of persons performing this Agreement will be on the basis of merit and qualification and will not discriminate on the basis of race, color, religion, creed, political ideas, sex, age, marital status, physical or mental disability, national origin, or other class protected by state and/or federal law.

11. **Default and Termination:** If either party fails to comply with any condition of this Agreement at the time or in the manner provided for, the other party, at its option, may terminate this Agreement and be released from all obligations if the default is not cured within ten (10) days after written notice is provided to the defaulting party. Said notice shall set forth the items to be cured. Additionally, the non-defaulting party may bring suit for damages, specific performance, and any other remedy provided by law. These remedies are cumulative and not exclusive. Use of one remedy does not preclude use of the others. Notices shall be provided in writing and hand-delivered or mailed to the parties at the addresses set forth in the first paragraph of this Agreement.

12. **Modification and Assignability:** This document contains the entire agreement between the parties and no statements, promises or inducements made by either party or agents of either party, which are not contained in this written Agreement, may be considered valid or binding. This Agreement may not be enlarged, modified or altered except by written agreement signed by both parties hereto. The Consultant may not subcontract or assign Consultant's rights, including the right to compensation or duties arising hereunder, without the prior written consent of City. Any subcontractor or assignee will be bound by all of the terms and conditions of this Agreement.

13. **Ownership and Publication of Materials:** All reports, information, data, and other materials prepared by the Consultant pursuant to this Agreement are the property of the City. The City has the exclusive and unrestricted authority to release, publish or otherwise use, in whole or part, information relating thereto. Any re-use without written verification or adaptation by the Consultant for the specific purpose intended will be at the City's sole risk and without liability or legal exposure to the Consultant. No material produced in whole or in part under this Agreement may be copyrighted or patented in the United States or in any other country without the prior written approval of the City.

14. **Liaison:** City's designated liaison with Consultant is **Jesse Patton** and Consultant's designated liaison with City is **R. Nathan Weisenburger**.

15. **Applicability:** This Agreement and any extensions hereof shall be governed and construed in accordance with the laws of the State of Montana.

IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

CITY OF GREAT FALLS, MONTANA

AE2S
CONSULTANT

By _____
Gregory T. Doyon, City Manager

By _____

Date _____

Print Name _____

Title _____

Date _____

ATTEST:

(Seal of the City)

Lisa Kunz, City Clerk

APPROVED AS TO FORM:

By _____
Sara R. Sexe, City Attorney

**EXHIBIT A – SCOPE OF SERVICES – AMENDMENT #2
WATER STORAGE FACILITIES IMPROVEMENTS
CITY OF GREAT FALLS, MONTANA
O.F. 1625.0**

Revised: March 2, 2015

Submitted by: AE2S

Advanced Engineering and Environmental Services, Inc. (AE2S) and KLM Engineering, Inc. are providing professional engineering services to the City of Great Falls for the reconditioning of the Ella Avenue Water Tower, the Skyline Water Tower, and the 33rd Street Surge Tank. Currently, the Ella Avenue Water Tower and 33rd Street Surge Tank projects are nearly completed, but work on the Skyline Water Tower has been delayed until 2015. Additional engineering fees are estimated to adjust for the actual construction timeline to complete the projects.

AE2S also prepared the following scope for the replacement of the existing Gore Hill Water Tower with a new 500,000 gallon water tower, which is anticipated to be located in the vicinity of the Flying J Truck Stop and Great Falls Iceplex. The shop inspection and verification of appropriate onsite erection and coating of the water tower will be completed by KLM Engineering, Inc., as a sub-consultant to AE2S. Terracon has been retained to complete the geotechnical investigation and recommendations for the foundation, and will provide technical assistance during the design, bidding, and construction phases.

The scope of services is to be provided as an amendment to the prescribed requirements of the Professional Services Agreement and related attachments dated September 17, 2013. Descriptions of the proposed tasks to be completed by AE2S under this amendment are provided below:

I. ADDITIONAL COMPENSATION FOR ONGOING CONSTRUCTION PHASE SERVICES

- A. Continue to provide construction phase engineering services, as indicated in the Professional Services Agreement.

Estimated Fee: \$35,000

II. FINAL DESIGN PHASE (GORE HILL WATER TOWER)

- A. Coordinate with the City of Great Falls regarding the scope of the project, prepare an estimate of engineering fees, and submit justification for engineering services amendment.
- B. Coordinate with City of Great Falls staff regarding existing conditions, design documentation format, and project constraints.
 - 1. Assist with the procurement of land for the water tower, consisting of boundary survey, subdivision of the subject parcel, and platting.
 - 2. Conduct a topographic survey of the site for the purpose of preparing technical drawings and establishing benchmarks at the site.
 - 3. Conduct a geotechnical investigation to facilitate the design of the foundation for the new Gore Hill Water Tower.
 - 4. Perform hydraulic modeling as necessary to facilitate tower and water transmission design.
 - 5. Prepare plans, specifications, and an engineering report for the water tower, associated transmission pipeline, and communications components for review by the City.
 - 6. Prepare a demolition plan for the existing Gore Hill Water Tower.

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7. Prepare updated opinions of total probable construction cost.
8. Schedule, prepare for, and participate in meetings with the City to discuss items pertaining to the final design of the project.
9. Submit documentation to the Montana Department of Environmental Quality for review and approval, and coordinate revisions to the documentation with the City.

Estimated Fee: \$167,000

III. BIDDING/NEGOTIATION PHASE (GORE HILL WATER TOWER)

- A. Assist Owner in advertising for and obtaining bids or negotiating proposals for the Work and, where applicable, maintain a record of prospective bidders to whom Bidding Documents have been issued, attend pre-Bid conference, and receive and process Contractor deposits or charges for the Bidding Documents.
- B. Issue Addenda as appropriate to clarify, correct, or change the Bidding Documents.
- C. Consult with Owner as to the acceptability of subcontractors, suppliers, and other individuals and entities proposed by Contractor for those portions of the Work as to which such acceptability is required by the Bidding Documents.
- D. Prepare for and facilitate the Pre-Bid meeting.
- E. Attend the Bid opening, prepare Bid tabulation, and assist Owner in evaluating Bids or proposals and in assembling and awarding contracts for the Work.

Estimated Fee: \$20,000

IV. CONSTRUCTION PHASE (GORE HILL WATER TOWER)

- A. General Administration of Construction Contract. Consult with Owner and act as Owner's representative as provided herein. The extent and limitations of the duties, responsibilities and authority of Engineer shall not be modified, except as Engineer may otherwise agree in writing. All of Owner's instructions to Contractor will be issued through Engineer, who shall have authority to act on behalf of Owner in dealings with Contractor to the extent provided in this Amendment to the Agreement, except as otherwise provided in writing.
- B. Selecting Independent Testing Laboratory. Assist Owner in the selection of an independent testing laboratory to perform services, if any, required for the project.
- C. Pre-Construction Conference. Participate in a Pre-Construction Conference prior to commencement of Work at the Site.
- D. Schedules. Receive, review, and determine the acceptability of any and all schedules that Contractor is required to submit to Engineer, including the Progress Schedule, Schedule of Submittals, and Schedule of Values.

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- E. Baselines and Benchmarks. As appropriate, establish baselines and benchmarks for locating the Work which in Engineer's judgment are necessary to enable Contractor to complete the Work.
- F. Visits to Site and Observation of Construction. In connection with observations of Contractor's Work while it is in progress:
 - 1. Make visits to the Site at intervals appropriate to the various stages of construction, as Engineer deems necessary, to observe as an experienced and qualified design professional the progress and quality of Contractor's executed Work. A Resident Project Representative will provide full-time on-site services during work activities completed by the Contractor. Such visits and observations by Engineer, and the Resident Project Representative, if any, are not intended to be exhaustive or to extend to every aspect of Contractor's Work in progress or to involve detailed inspections of Contractor's Work in progress beyond the responsibilities specifically assigned to Engineer in this Agreement and the Contract Documents, but rather are to be limited to spot checking, selective sampling, and similar methods of general observation of the Work based on Engineer's exercise of professional judgment as assisted by the Resident Project Representative, if any. Based on information obtained during such visits and observations, Engineer will determine in general if the Work is proceeding in accordance with the Contract Documents, and Engineer shall keep Owner informed of the progress of the Work.
 - 2. The purpose of Engineer's visits to, and representation by the Resident Project Representative, if any, at the Site, will be to enable Engineer to better carry out the duties and responsibilities assigned to and undertaken by Engineer during the Construction Phase, and, in addition, by the exercise of Engineer's efforts as an experienced and qualified design professional, to provide for Owner a greater degree of confidence that the completed Work will conform in general to the Contract Documents and that Contractor has implemented and maintained the integrity of the design concept of the completed Project as a functioning whole as indicated in the Contract Documents. Engineer shall not, during such visits or as a result of such observations of Contractor's Work in progress, supervise, direct, or have control over Contractor's Work, nor shall Engineer have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by Contractor, for security or safety on the Site, for safety precautions and programs incident to Contractor's Work, nor for any failure of Contractor to comply with Laws and Regulations applicable to Contractor's furnishing and performing the Work. Accordingly, Engineer neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform the Work in accordance with the Contract Documents.
- G. Defective Work. Recommend to Owner that Contractor's Work be rejected while it is in progress if, on the basis of Engineer's observations, Engineer believes that such Work will not produce a completed Project that conforms generally to the Contract Documents or that it will

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threaten the integrity of the design concept of the completed Project as a functioning whole as indicated in the Contract Documents.

- H. Clarifications and Interpretations; Field Orders. Issue necessary clarifications and interpretations of the Contract Documents as appropriate to the orderly completion of Contractor's work. Such clarifications and interpretations will be consistent with the intent of and reasonably inferable from the Contract Documents. Engineer may issue Field Orders authorizing minor variations in the Work from the requirements of the Contract Documents.
- I. Change Orders and Work Change Directives. Recommend Change Orders and Work Change Directives to Owner, as appropriate, and prepare Change Orders and Work Change Directives as required.
- J. Shop Drawings and Samples. Review and approve or take other appropriate action in respect to Shop Drawings and Samples and other data which Contractor is required to submit, but only for conformance with the information given in the Contract Documents and compatibility with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Such reviews and approvals or other action will not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions and programs incident thereto. Engineer shall meet any Contractor's submittal schedule that Engineer has accepted.
- K. Inspections and Tests. Require such special inspections or tests of Contractor's work as deemed reasonably necessary, and receive and review all certificates of inspections, tests, and approvals required by Laws and Regulations or the Contract Documents. Engineer's review of such certificates will be for the purpose of determining that the results certified indicate compliance with the Contract Documents and will not constitute an independent evaluation that the content or procedures of such inspections, tests, or approvals comply with the requirements of the Contract Documents. Engineer shall be entitled to rely on the results of such tests.
- L. Disagreements between Owner and Contractor. Render formal written decisions on all duly submitted issues relating to the acceptability of Contractor's work or the interpretation of the requirements of the Contract Documents pertaining to the execution, performance, or progress of Contractor's Work; review each duly submitted Claim by Owner or Contractor, and in writing either deny such Claim in whole or in part, approve such Claim, or decline to resolve such Claim if Engineer in its discretion concludes that to do so would be inappropriate. In rendering such decisions, Engineer shall be fair and not show partiality to Owner or Contractor and shall not be liable in connection with any decision rendered in good faith in such capacity.
- M. Applications for Payment. Based on Engineer's observations as an experienced and qualified design professional and on review of Applications for Payment and accompanying supporting documentation:
 - 1. Determine the amounts that Engineer recommends Contractor be paid. Such recommendations of payment will be in writing and will constitute Engineer's

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- representation to Owner, based on such observations and review, that, to the best of Engineer's knowledge, information and belief, Contractor's Work has progressed to the point indicated, the quality of such Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, and to any other qualifications stated in the recommendation), and the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe Contractor's Work. In the case of unit price work, Engineer's recommendations of payment will include final determinations of quantities and classifications of Contractor's Work (subject to any subsequent adjustments allowed by the Contract Documents).
2. By recommending any payment, Engineer shall not thereby be deemed to have represented that observations made by Engineer to check the quality or quantity of Contractor's Work as it is performed and furnished have been exhaustive, extended to every aspect of Contractor's Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in this Agreement and the Contract Documents. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment including final payment will impose on Engineer responsibility to supervise, direct, or control Contractor's Work in progress or for the means, methods, techniques, sequences, or procedures of construction or safety precautions or programs incident thereto, or Contractor's compliance with Laws and Regulations applicable to Contractor's furnishing and performing the Work. It will also not impose responsibility on Engineer to make any examination to ascertain how or for what purposes Contractor has used the moneys paid on account of the Contract Price, or to determine that title to any portion of the Work in progress, materials, or equipment has passed to Owner free and clear of any liens, claims, security interests, or encumbrances, or that there may not be other matters at issue between Owner and Contractor that might affect the amount that should be paid.
 - N. Contractor's Completion Documents. Receive, review, and transmit to Owner maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance required by the Contract Documents, certificates of inspection, tests and approvals, Shop Drawings, Samples and other data approved, and the annotated record documents which are to be assembled by Contractor in accordance with the Contract Documents to obtain final payment.
 - O. Substantial Completion. Promptly after notice from Contractor that Contractor considers the entire Work ready for its intended use, in company with Owner and Contractor, conduct an inspection to determine if the Work is substantially complete. If after considering any objections

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of Owner, Engineer considers the Work substantially complete, Engineer shall deliver a certificate of Substantial Completion to Owner and Contractor.

- P. Final Notice of Acceptability of the Work. Conduct a final inspection to determine if the completed Work by Contractor is acceptable so that Engineer may recommend, in writing, final payment to Contractor. Accompanying the recommendation for final payment, Engineer shall provide notice that the Work is acceptable to the best of Engineer's knowledge, information, and belief and based on the extent of the services provided by Engineer under this Agreement.
- Q. Coordinate the services of KLM Engineering, Inc. as a subconsultant to observe the work as it is completed.
- R. Coordinate operational requirements of the water system with the City.
- S. Duration of Construction Phase. The Construction Phase will commence with the execution of the first construction Contract for the Project or any part thereof and will terminate upon written recommendation by Engineer for final payment to Contractors. Engineer shall be entitled to an equitable increase in compensation if Construction-Phase services are required after the original date for final completion of the Work as set forth in the construction Contract.
- T. Limitation of Responsibilities. Engineer shall not be responsible for the acts or omissions of any Contractor, or of any subcontractors, suppliers, or other individuals or entities performing or furnishing any of the Work. Engineer shall not be responsible for the failure of any Contractor to perform or furnish the Work in accordance with the Contract Documents.

Estimated Fee: \$205,500

V. POST-CONSTRUCTION PHASE (GORE HILL WATER TOWER)

- A. Provide assistance in connection with the adjusting of Project equipment and systems.
- B. Assist Owner in training Owner's staff to operate and maintain Project equipment and systems.
- C. Together with Owner, visit the Project to observe any apparent defects in the Work, assist Owner in consultations and discussions with Contractor concerning correction of any such defects, and make recommendations as to replacement or correction of Defective Work.
- D. In company with Owner or Owner's representative, provide an inspection of the Project within one month before the end of the Correction Period to ascertain whether any portion of the Work is subject to correction.
- E. Provide Operations and Maintenance information for the project as received from the Contractor.
- F. Perform survey of completed project, generate a Certificate of Survey for FAA and finalize FAA filing of 7460-2, Part 2 regarding construction reaching greatest height.
- G. Provide Record Drawings showing changes made during the construction process, based on the annotated record documents for the Project and furnished by Contractor and which ENGINEER considers significant.

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- H. Complete a site visit and inspection of the tank prior to the expiration of the Correction Period to determine if the completed Work is acceptable according to the Construction Documents. The site visit shall be conducted in accordance with ENGINEER’s standard protocol. The inspection shall generally consist of a float-down inspection to document interior coating performance and conditions, an assessment of exterior coating performance and conditions, an assessment of structural components, and preparation of an End of Correction Period Report. The Report shall summarize all observations and on-site activities and findings and shall include recommendations for corrective action of observed defects as to replacement or correction of Defective Work, as necessary.

Estimated Fee: \$17,500

VI. INSTRUMENTATION AND CONTROLS (I&C) SERVICES

- A. Assist Owner with identifying and planning the removal and demolition of control system equipment from existing tank site and replacement and/or installation of the equipment at the new tank site.
- B. Provide construction observation for control system equipment to verify proper installation by the Contractor.
- C. Provide assistance in connection with the adjusting of Project equipment and systems.
- D. Provide PLC I/O card installation and setup to provide information for control system monitoring and operation.
- E. Provide control system programming to allow monitoring and operation of the new water tower.
- F. Assist Owner with calibration and troubleshooting of tank telemetry post-installation.

Estimated Fee: \$22,000

Fee Summary*:

I.	Additional Compensation for Ongoing Construction Phase Services:	\$ 35,000
II.	Final Design Phase (Gore Hill Water Tower):	\$167,000
III.	Bidding/Negotiation Phase (Gore Hill Water Tower):	\$ 20,000
IV.	Construction Phase (Gore Hill Water Tower):	\$205,500
V.	Post-Construction Phase (Gore Hill Water Tower):	\$ 17,500
VI.	Instrumentation & Controls (I&C) Services (Gore Hill Water Tower):	\$ 22,000
	Total Estimated Fee:	\$467,000

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*Note: Estimated fees include the design of the transmission pipeline as an integral component of the water tower.