



AGENDA ITEM SUMMARY FORM

MEETING DATE: April 14, 2026

PREPARED BY: Hector Renteria

AGENDA CONTENT: Discussion and possible action on HDR proposal for Disinfection process upgrades to the Jamison and Chenango Water Treatment Plants.

AGENDA ITEM SECTION: Regular Agenda

BUDGETED AMOUNT: **FUNDS REQUESTED: \$128,660.00**

FUND:

EXECUTIVE SUMMARY:

The City owns several groundwater treatment plants, in addition to purchasing the majority of its treated water from the Brazosport Water Authority (BWA). Two of these groundwater treatment plants, the Chenango and Jamison Treatment Plants, currently do not have the capability to add ammonia (liquid ammonium sulfate (LAS)) required to adjust the chloramine residual. Although BWA water is chloraminated, its residual must be adjusted with chlorine and/or LAS to optimize disinfectant residual throughout the City's water distribution system.

At the City's request, HDR has prepared a proposal for professional engineering services for the design, bid, and construction management of the Chloramination Improvements at Chenango and Jamison Water Plants. The identified improvements will include installation of LAS storage and feed facilities in a new enclosure, improvements to monitor and control chlorine and or ammonia dosage based on flows, and relocations of chlorine injection points. All proposed improvements will have to be submitted to TCEQ for approval.

RECOMMENDATION:

Award HDR the Chloramination Improvements at Chenango and Jamison Water Plants contract for a not to exceed amount of \$128,660.00.



April 7, 2026

Guadalupe Valdez
Acting City Manager
City of Angleton
121 South Velasco Street
Angleton, Texas 77515

**Re: Proposal for Professional Engineering Services
Chloramination Improvements at Chenango and Jamison Water Plants**

Dear Mr. Valdez:

HDR Engineering, Inc. (HDR) is pleased to submit this proposal for professional engineering services to prepare design drawings and specifications for chloramination improvements at the Jamison and Chenango Water Treatment Plants for the City of Angleton (City). This proposal is based on recent communications with City staff on the issue currently at the above-referenced water plants. For your convenience, this proposal consists of a Project Understanding, Scope of Services, Fee Summary, Schedule, Terms and Conditions, and Invoices sections.

PROJECT UNDERSTANDING:

The City owns several groundwater treatment plants, in addition to purchasing the majority of its treated water from the Brazosport Water Authority (BWA). Two of these groundwater treatment plants, the Chenango and Jamison Treatment Plants, currently do not have the capability to add ammonia (liquid ammonium sulfate (LAS)) required to adjust the chloramine residual. Although BWA water is chloraminated, its residual must be adjusted with chlorine and/or LAS to optimize disinfectant residual throughout the City's water distribution system.

The Chenango water treatment plant requires the following improvements:

- Installation of an LAS storage and feed facility in a prefabricated enclosure.
- Improvements to the existing chlorine room.
- Improvements to monitor and control chlorine and/or ammonia dosage based on flow.
- Potential relocation of the chlorine addition point.

The Jamison water treatment plant requires the following improvements:

- Installation of an LAS storage and feed facility in a prefabricated enclosure.
- Improvements to monitor and control chlorine and/or ammonia dosage based on flow.
- Relocation of the chlorine addition point.

These design improvements will require approval from the TCEQ who will review the plans and specifications. In addition, the cost of this project will be sufficient to require the City to go through a formal bidding process.

SCOPE OF SERVICES:

The following Scope of Services outlines the design, bid, and construction phase services that HDR will perform for this project.

Design Phase

Task 1 – Project Management and Kick-Off Meeting

HDR will conduct general project management services to develop the schedule, budgets, invoices, project management plan, quality control plan, project safety plan, and conduct the project kickoff meeting. HDR will conduct the project kick-off meeting with City operations personnel to gather details on the following items:

- Review of City goals and objectives for the project.
- Review of project schedule and deliverables.
- Request existing information such as existing site design documents, geotechnical information, and relevant operational data.
- Perform field reconnaissance of the proposed water treatment plant sites to obtain information on existing equipment and any other information that would impact design of proposed chemical facilities.

Item 1 – Deliverables Summary:

- Monthly Invoices (total of 17 months through construction phase)
- Updated Project Schedule
- Data Request
- Project Kick-Off Meeting Agenda and Summary

Task 2 – Design Phase Services

Based on the information gathered in Task 1, HDR will develop bid plans and specifications for the potential bidders to utilize. Our services include the following:

- Examine any available existing geotechnical information obtained during the project to determine potential soil conditions and potential impact on construction methodology and costs.
- Prepare a Technical Memorandum (TM) to document proposed chemical storage and feed improvements and associated regulatory compliance when switching from free chlorine to chloramine disinfection.
- Prepare 70% and 100% project plans, specifications, bid documents and construction drawings based on the anticipated improvements indicating the scope, extent, and character of the Work to be performed and furnished by the Contractor.
- Prepare Engineer's Estimate of Probable Construction Cost (OPCC) for the Project. OPCCs prepared by HDR are to be made based on HDR's experience and general familiarity with the construction industry. However, because HDR has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractors' methods of determining prices, or over competitive bidding or market conditions, HDR cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from HDR's OPCCs.
- Coordinate with the City during the Final Design. Provide draft documents (Plans, Specifications, OPCC) at 70%, and at 100% for their review and comments.
- Conduct design review meetings with City staff after the 70%, and 100% submittals. These meetings may be web-based or in-person. Address the City's comments in the subsequent design deliverable package. Update the design review comment/response log to document how the City's comments have been addressed.
- Incorporate the City's comments and appropriate comments from pertinent entities into the Final Bid Plans and Specifications.

- Furnish two (2) sets and an electronic copy (PDF) of construction documents to the City.

It is anticipated that HDR will develop six (6) to eight (8) plan sheets to effectively explain the work to be performed by the Contractor. These plans will be utilized to request approval from TCEQ to perform the project. HDR will provide a set of draft plan drawings and specifications at 70% completion to the City for review and comments. Recommendations will be incorporated in the 100% package to be sent to the City and TCEQ.

Item 2 – Deliverables Summary:

- Technical Memorandum
- 70% and 100% project plans, specifications, bid documents and construction drawings

Item 2 Assumptions:

- Existing plans are sufficient to not require a site survey to be performed for this project.
- Both sites will utilize prefabricated enclosures for LAS storage and feed equipment. These enclosures will be placed on concrete slabs.
- Existing electrical service, control panels, and breakers are all sufficient for proposed facilities.

Bid Phase

Task 3 – Bid Phase Services

HDR will provide bid phase services as follows:

- Assist the City in obtaining bids for the project. The City will advertise the project and will absorb all related advertising costs. HDR will coordinate with the City and will assist in developing the wording of the advertisement.
- Actively contact prospective contractors in order to attract bidders for the project.
- Upload Contract Documents on CIVCAST for Contractors to view electronically. Costs for registering the project on CIVCAST are included in this fee proposal.
- During the bidding process, provide information to and answer questions from potential bidders concerning the Project's Contract Documents and prepare addendums, as necessary.
- Conduct a pre-bid conference for potential bidders describing specific project requirements and answer questions from contractors regarding the project. Prepare pre-bid meeting minutes and distribute to all attendees.
- Attend the public bid opening at the City's office.
- Evaluate the bids and the qualifications of the apparent low bidder, prepare the bid tabulation, and advise the City as to the acceptability of the apparent low bidder.
- Prepare a letter of recommendation of award to the City.
- Assist the City in execution of three (3) sets of contract documents in PDF format.

Construction Phase

Task 4 – Construction Administration Phase Services

HDR will provide construction phase services as follows:

- Conduct a pre-construction conference for the project.
- Act as the City's Project Representative during the construction phase.
- Review and respond accordingly to all submittals as required by the contract specifications.
- Respond to requests for information and prepare change orders necessitated by field conditions.
- Review the contractor's pay estimates, evaluate the completed work, and make payment recommendations to the City.
- Conduct a maximum of six (6) monthly progress meetings (two at the beginning of construction and four after shop drawings have been reviewed and an equipment delivery schedule has been established) and visit the site at intervals appropriate to the various stages of construction to observe the progress and quality of executed work and to determine in general if such work is proceeding in accordance with the Contract Documents. Detailed measurements and investigations are not part of this task. Full-time site representation is not included as part of the construction phase services.
- HDR will not be responsible for the means, methods, techniques, sequences or procedures of construction selected by the Contractor(s) or the safety precautions and programs incident to the work of the Contractor(s). HDR's effort will be directed toward providing a greater degree of confidence for the City that the completed work of Contractor(s) will conform to the Contract Documents, but HDR will not be responsible for the failure of Contractor(s) to perform the work in accordance with the Contract Documents. During site visits and on the basis of on-site observations HDR shall keep the City informed of the progress of the work, shall endeavor to guard the City against defects and deficiencies in such work and may disapprove or reject work failing to conform to the Contract Documents.
- Conduct a final inspection of the Project and make a recommendation for Final Payment on the Project. Included in this task is verification that the system performs as per the bid specifications.
- Notify TCEQ prior to beginning construction and after completion of construction.
- Provide one (1) set of reproducible PDF record plans based on the red line drawings provided to HDR by the Contractor.
- Provide closeout documents to the City.

FEE SUMMARY:

HDR proposes to provide the above-described Scope of Services for a lump fee of **\$128,660.00** as per the following breakdown:

Design Phase Services (Lump Sum)	\$ 97,400.00
Bid Phase Services (Lump Sum)	\$ 8,600.00
<u>Construction Administration Services (Lump Sum)</u>	<u>\$ 22,660.00</u>
Total Fee	\$ 128,660.00

SCHEDULE:

It is estimated that the schedule to complete the design phase is approximately seven (7) months from the date of authorization to proceed. The bid phase will be one (1) month, execution of the contract documents will be one (1) month, and construction will take approximately eight (8) months dependent on lead times for equipment.

TERMS AND CONDITIONS:

This project will be performed as a 'Project Engineering Design and Support Service' under the current Master Agreement for Professional Services with the City, and its terms and conditions will apply.

INVOICES:

HDR will submit monthly invoices for all engineering work completed to invoice date. The invoices for lump sum work will be based on a percentage of completion of each phase applied to the lump sum fee.

HDR appreciates the opportunity to submit this proposal and we look forward to continuing our work with the City of Angleton.

Sincerely,

HDR Engineering, Inc.



Karan Khosla, P.E. PTOE
Vice President/Area Manager

Approved:

Authorized signature on behalf of the City of Angleton: _____

Printed Name: _____

Title: _____

Date: _____