CRANSTON
ENGINEERING

ENGINEERS - PLANNERS - SURVEYORS

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May 12, 2023

Augusta Utilities Department
Mr. Wes Byne, P.E., Director
452 Walker Street, Suite 100
Augusta, Georgia 30901

Re: Augusta Corporate Park Utility Extension
Sanitary Sewer Design Revisions
Our File No. 2016-0092

Dear Mr. Byne,

In accordance with your request, we are pleased to offer the following proposal for planning and engineering services associated with design updates for the proposed sanitary sewer system in Augusta Corporate Park. Specifically, this proposal includes professional services for the design of a gravity sewer system, lift station, and force main. This proposal confirms our understanding of the project scope as well as the fees and the anticipated schedule for accomplishing the work.

PROJECT BACKGROUND

During the fall of 2022, Cranston finalized the design of water and sanitary sewer improvements to serve planned industrial developments in the Augusta Corporate Park. As the City of Augusta has secured Federeal EDA funding for the project, the drawings and specifications were developed in accordance with grant requirements. Following juristidictional review and completion of minor updates, the Federal EDA approved the project for bid on January 5, 2023.

During the first quarter of 2023, development schedules and anticipated water demands were modified by industries considering build-outs in the Augusta Corporate Park. With new flow data and revised timelines, the Augusta Utilities Department commissioned a Feasibility Study to evaluate alternatives for the sanitary sewer improvements. Cranston completed the Feasibility Study and presented it to AUD and Augusta EDA on April 19, 2023.

The preferred sanitary sewer alternative includes new 12-inch diameter gravity sewer, a duplex lift station, and 6-inch diameter force main serving only the Aurubis and Denkai sites. The 6-inch force main will extend north from the lift station to the new gravity system in Valencia Way approximately 1,800-feet east of the Starbucks Plant. Downsteam of the force main connection, the new gravity sewer will extend northwest to the existing sanitary manhole on the south side of Horseshoe Road.

For design purposes, operating conditions for the preferred alternative are based on the water demands through Phase 2 of the Aurubis and Denkai build-outs. This results in an operating condition of 180-291 gpm with an approximate head of 135-feet. While initial calculations completed during the Feasbility Study indicate that the duplex lift station and 6-inch force main will have available capacity following Phase 2, additional study is recommended if further expansion is planned.

The Feasbility Study contemplates a second, stand-alone lift station and force main system to serve future development on the Purecycle site. Based on information provided to AUD by Purecycle, the preferred alternative for the Purecycle site was based on an operating condition of 640-1,280 gpm with an approximate head of 55-feet. A 12-inch diameter force main is anticipated to serve the future lift station. The future force main and lift station are not included in this scope of work.

SCOPE OF WORK

Cranston Engineering proposes our services on a per task basis as outlined below.

TASK #1 – FINAL DESIGN

A. Using the flow data provided by Augusta Utilities Department, Cranston will complete the required hydraulic calculations for force main design and initial pump selection.
B. Cranston will coordinate with pump manufacturers to preliminarily identify pump options, manufacturer lead times, and budgetary costs.
C. We will develop revised lift station drawings for coordination and review by AUD.
D. Cranston will complete revised drawings to include plan / profile views, construction details, and erosion and sediment control measures.
E. Cranston will include the Federal EDA grant information consistent with the approved package from January 2023. We will submit the revised drawings to the Federal EDA for review and approval.
F. Cranston will meet with AUD to submit a 95% complete set of Construction Drawings and Technical Specifications. Following review, we will incorporate any comments and revisions as necessary and then develop final drawings, specifications, and bid documents. We will coordinate the lift station and site design with the Electrical Engineering services proposed herein.
G. Drawings will be submitted on printed sets and furnished electronic copies in PDF. We expect to provide the Augusta Utilities Department 8 bound sets of final drawings. CAD files of the final drawings will be provided, as requested, at no additional fee.

TASK #2 – ELECTRICAL ENGINEERING (LIFT STATION)

A. Support the revised design with updated power supply, pump selection, and costs.
B. Provide Final Electrical Engineering design to include Final Drawings and Specifications.
C. Final deliverables will be aligned with the Final Civil Engineering Design Services in terms of 95% and 100% submittals to assure Owner review comments are addressed.

ASSUMPTIONS & EXCLUSIONS

- The future lift station and force for the Purecycle site are not included in the scope of work.
- Operating conditions for the Aurubis and Denkai sites are as noted herein and in the Feasibility Study by Cranston, dated March 30, 2023.
- Cranston will update the water main drawings and bid quantities to reflect the recently completed water main installations to support on-going construction. We understand that Augusta Utilities Department will provide Cranston with the necessary as-built data.
- Design services for adjancent site developments are excluded.
- Geotechnical and / or Environmental Services are excluded.
- Easement or right-of-way maps are excluded.
- Bid Phase Services are as proposed in the November 19, 2021 proposal and included in our current Purchase Order (#22AUA011).
- Construction Phase services are not included. These services can be provided, as requested, on a time and materials basis or through a separate agreement.
- Any services not explicitly proposed herein are excluded from the proposed scope of work. If additional services are required, we will collectively establish the scope of services with the Augusta Utilities Department. A separate proposal will be respectfully provided to AUD for review and approval.

FEE PROPOSAL

We respectfully propose to complete the Scope of Work based on the fee schedule below. The proposed fee basis (lump sum, etc.) is noted for each task.

Task	Task	Proposed Fee
#1	Final Design (lump sum)	$24,840
#2	Electrical Engineering - Lift Station(s) (lump sum)	$3,375
	TOTAL:	**$28,215**

We expect to submit periodic invoices monthly and to receive payment within thirty days thereafter.

TIME OF COMPLETION

We are prepared to begin work at your direction and expect to submit a 95% review set by June 2, 2023. To expedite AUD feedback and to track design progress, we will schedule in-process design review meetings.

We appreciate the opportunity to propose our professional services and trust that you find it satisfactory. Should you have any questions concerning this proposal, please do not hesitate to give us a call.

Sincerely,

CRANSTON

Tom Dunaway, P.E.

Enclosed: March 30, 2023 Feasibility Study by CRANSTON