



Goodwyn Mills Cawood

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November 03, 2025

Mr. Chad Hendrix, PE
Augusta Utilities Department
452 Walker Street, Suite 200
Augusta, GA 30901

**RE: Ellis Street Stormwater-Sanitary Sewer Separation Project
Letter Proposal to Provide Engineering Services – Phase I**

Dear Mr. Hendrix:

Goodwyn Mills Cawood (GMC) thanks you for the opportunity to submit this proposal to provide engineering services for the referenced project. Accordingly, we have prepared the following scope, fee, and schedule for your review and consideration.

PROJECT UNDERSTANDING:

The Ellis Street corridor between Eve Street and Metcalf Street in downtown Augusta, GA has experienced stormwater conveyance concerns during significant rainfall events, particularly near the Eve Street end. The Augusta Engineering Department (AED) has identified this area as a priority for further evaluation and potential improvements to enhance drainage performance.

Preliminary observations suggest that the existing stormwater system in this area may have some interaction with the sanitary sewer system, either directly or indirectly through inflow and infiltration (I&I). As such, the Augusta Utilities Department (AUD) will have an important role in the development of coordinated improvements in this area.

This project seeks to develop solutions that will alleviate the issues with stormwater conveyance and I&I in the area in a phased approach. Phase I will address the stormwater conveyance issues for AED. Phase II will deal with I&I reduction for AUD. However, a separate Letter Proposal for Phase II will be submitted at some time in the future after Phase I engineering work has begun. Accordingly, GMC will perform and/or provide the following:

PROJECT GOALS:

1. **Phase I:** Stormwater Conveyance Improvements for AED
 - a. Field Work:
 - i. Smoke Testing or Camera Work
 - ii. Field Exploration and Data Collection/Review



- iii. Survey Work
 - b. Conceptual Design (30% Design) and Workshop with City (AED & AUD)
 - c. Design Drawings (60%, 90%, and Final Design)
 - d. Bid/Project Pricing Phase Services
 - e. Construction Administration Services
2. Phase II: I&I Reduction for AUD (Pending)

SCOPE OF SERVICES:

PHASE I: Stormwater Conveyance Improvements for AED

1. Field Work

- a. *Conduct Smoke Testing or Camera Work:* GMC or its subconsultant will conduct field work in the form of smoke testing or camera work to identify areas of cross-connection between the stormwater system and sanitary sewer system.
- b. *Field Exploration and Data Collection/Review:* GMC will perform field work to resolve the connectivity of the stormwater drainage system in the project area. The City has provided GMC with GIS data for the stormwater and sanitary sewer systems in the area as well as any historical as-builts/drawings for the area. If any additional relevant GIS data exists, the City will need to provide this to GMC also prior to the start of work. Although some of the stormwater features in the area are already mapped, field work will be required to complete the inventory with information such as pipe connectivity and flow direction between structures, pipe sizes, missing structures and pipes, structure type and structure condition. GMC will conduct map-grade GPS mapping of missing stormwater infrastructure to resolve the connectivity of all stormwater features for those portions of the drainage system necessary to evaluate drainage improvements. GMC will utilize a Trimble DA2 GNSS receiver and Trimble Catalyst 1 subscription that typically provides vertical accuracy of 1 – 2 cm.. As GMC resolves the connectivity of the drainage systems within the study area, the boundaries of the study area may change based on the established drainage basins. ***Please note that the field mapping described in this task will NOT be performed to meet the Standard Operating Procedures (SOP) and geodatabase schema developed by the AED Asset Management Team (AEDAM).***
- c. *Survey Work:* Surveying will be performed in support of hydrologic and hydraulic (H&H) modeling to provide a topographic and utility survey of the drainage system area including stormwater structures, pipes, and ditches. Survey data will be collected on an approximate 50 ft grid plus changes in



grade lines such as road crowns, gutters, top of curbs, sidewalks and drives. Survey of sanitary sewer systems will include top of structure and inverts. Vertical data will be referenced to NAVD 88 and horizontal data to NAD 83. Survey shall include the following:

- Ground run field data collection and processing of approximately 5.51 acres to produce topographic survey
- Boundary retracement survey of 1911 and 1912 Ellis Street
- Preparation of approximately 42.8 acres of publicly available GIS data using NOAA LiDAR for watershed analysis
- Survey of stormwater conveyance system only on remaining 37 acres of area covered by GIS contours – approximately 88 structures and grassed swale

2. Conceptual Design (30% Design) and Workshop with City

- a. *Conceptual Design (30% Design):* GMC proposes to perform hydrologic and hydraulic modeling (H&H) of the drainage systems to evaluate the capacity of the existing system and develop a conceptual design for improving stormwater drainage and separation from the sanitary sewer system in this area. GMC will develop a preliminary engineer's cost estimate for the construction work associated with the conceptual design. GMC will perform H&H modeling utilizing Hydraflow Storm Sewers Extension for Autodesk Civil 3D and develop a conceptual design equivalent to 30% design. Drainage system components will be designed in accordance with the City of Augusta's performance standards and design requirements outlined in the City's Stormwater Management Manual (July, 2020) including:
- Inlets and pipes designed for the 25-year, 24-hour storm event (if possible based on the existing downstream stormwater infrastructure)
 - Minimum pipe diameter of 18 inch
 - Minimum pipe slope of 0.5% or a slope that will produce a velocity of 2.5 feet per second when flowing full, whichever is greater
 - Catch basins spaced so gutter spread does not exceed six (6) feet for the 25-year, 24-hour event
- b. *Workshop with City:* Following completion of the conceptual design, GMC will meet with the City to review the plan and cost estimate, and to solicit the City's input.

3. Design Documents

- a. *Design Documents:* GMC will refine the design based on comments from the City and develop engineering plans and cost estimates to submit to the City for 60%, 90%, and final design sets. Plans will include: demolition plan, roadway and storm drainage plan and profiles, utility relocation plan (if



needed), pavement replacement and striping plan, construction details, E&S Plan/notes/details, and a temporary traffic control plan.

4. Bid/Project Pricing Phase Services:

- a. *Respond to RFI's:* GMC will respond to Request for Information (RFI) from Contractor(s) during this phase in which Contractors submit bids or a pre-selected Contractor prepares a quote for the construction work. GMC will provide up to six (6) hardcopies of drawings at this phase for the City and/or the selected Contractor.

5. Construction Phase Services:

- a. *Construction Administration – Office Services:* GMC recommends the following services during the construction phase of the project. These services are based on an estimated twelve-month period of construction for this Phase I, per the accompanying Gantt-formatted project schedule:

- *Pre-Construction Meeting*
- *Submittal Review*
- *Responses to Contractor RFI's*
- *Process Contract Change Orders (if required)*
- *Pay Application Review*
- *Provide Contractor with Final Punch List*
- *Provide Punch List Inspection*
- *Review As-Built Survey Provided by Contractor*
- *Conduct up to four (4) Engineer Site Visits*

- b. *Additional Engineer Site Visits:* GMC will conduct up to four (4) site visits during construction as part of the included Construction Administration services. Additional site visits will be performed as an on-call service billed hourly in accordance with the accompanying GMC rate schedule.
- c. *Resident Inspection Services:* GMC recommends and can provide Resident Inspection Services during the construction phase of the project. These services have not been included in the proposal.

6. Contingency Allowances:

- a. *Survey-grade LiDAR from unmanned aerial vehicles (UAV):* It is possible that the publicly available GIS data from the NOAA LiDAR will need to be upgraded to survey-grade LiDAR from UAV to enhance the watershed analysis. An allowance is provided in the scope for this task in the event that survey-grade LiDAR is necessary.



- b. *Subsurface Utilities Engineering (SUE)*: It is possible that subsurface utilities will need to be identified and located to avoid conflicts when installing proposed storm sewer piping. The level of accuracy proposed for the SUE will be determined on a case-by-case basis. An allowance is provided in the scope for this task in the event that SUE is necessary
- c. *Environmental Permitting*: If necessary, GMC will assist with ensuring that environmental requirements associated with state and/or federal funding are met. An allowance is provided for this task in the event that state and/or federal funding require a categorical exclusion. Note that the allowance does not include any actual fees to be paid to state or federal agencies. Should any agency require additional environmental documents, a separate proposal can be provided upon request.

PHASE II: I&I Reduction for AUD (Pending)

SCHEDULE:

GMC is available to begin work immediately upon receipt of the Notice to Proceed (NTP). The following schedule pertains to engineering services from NTP through Final Design Drawings and excludes Bid/Project Pricing Phase, Procurement, and Construction Phase.

- *Field Work – Completed within two (2) months from receiving NTP from AED and AUD.*
- *Conceptual Design (30% Design) – Completed within two (2) months following completion of the field work.*
- *Design Drawings – Completed within six (6) months following receipt of comments from AED and AUD on the completed PER/Tech Memo.*

Total time for GMC to complete engineering work will be ten (10) months from NTP to Final Design, not including time for AED and AUD to review milestone submittals and provide comments.

PROJECT FEES:

The following summary provides a fee breakdown for each phase. Reimbursable expenses have been included in the total amount. Invoicing for the project will be submitted to AUD on a monthly basis as the work progresses. Extra Services, if ordered by AUD will be billed on a time and material (T&M) basis in accordance with GMC's attached Rate and Fee Schedule. Resident Inspection Services, if required, would be billed on an hourly basis in accordance with the attached rate schedule. The project fees are summarized as follows:

ELLIS STREET STORM-SANITARY SEWER SEPARATION PROJECT:

Task 1 – Field Work	\$ 41,000
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{Smoke Testing/Camera Work - \$3,350 Field Exploration and Data Collection/Review - \$14,550 Survey - \$23,100}	
Task 2 – Conceptual Design & Workshop w/City	\$ 27,700
Task 3 – Design Documents	\$ 77,500
Task 4 – Bid/Project Pricing Phase	\$ 5,200
Task 5 – Construction Phase Services	\$ 25,400
Task 6a – LiDAR UAV Survey Allowance	\$ 12,000
Task 6b – SUE Allowance	\$ 8,000
<u>Task 6c – Environmental Permitting Allowance</u>	<u>\$ 4,200</u>
Fee Total for Phase I	\$201,000*

*ASSUMPTIONS:

If property acquisition is recommended, the purchase price of the property is not included in this fee total.

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 considered past-due thereafter.

We appreciate the opportunity to work with AUD over the course of this project, and trust our proposal is consistent with your expectations. Your signature on the line below will provide our Notice-to-Proceed and authorize GMC to commence work on the scope as stated herein. 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 CAWOOD, LLC.

Marvin Pierre, PE, BCEE
Senior Project Manager

Proposed Project: Ellis St Storm-Sanitary Separation

Authorized By: _____

Date: _____



Rate and Fee Schedule

Hourly Rates

Executive Vice President	\$ 255.00
Senior Vice President	\$ 225.00
Vice President	\$ 210.00
Senior Professional (Architect, Engineer Regional Technical Leader, Surveyor, Interior Design, Scientist, Project Manager)	\$ 225.00
Professional III (Architect, Engineer Design Manager, Surveyor, Interior Design, Scientist, Project Manager)	\$ 210.00
Professional II (Architect, Engineer State Technical Leader, Surveyor, Interior Design, Scientist, Project Manager)	\$ 190.00
Professional I (Architect, Engineer Design Coordinator, Surveyor, Interior Design, Scientist, Project Manager)	\$ 175.00
Senior Professional Staff (Architect, Project Engineer, Interior Design, Scientist, Assistant Project Manager)	\$ 150.00
Professional Staff III (Architect, Project Professional, Interior Design, Scientist)	\$ 135.00
Professional Staff II (Architect, Staff Professional, Interior Design, Scientist)	\$ 120.00
Professional Staff I (Architect, Interior Design, Scientist)	\$ 105.00
Senior Technical (Technical Spec., Contract Spec., CADD Tech., Designer, Drafting, CA, ROW, Inspector)	\$ 150.00
Technical III (Contract Spec., CADD Tech., Designer, Drafting, CA, ROW, Inspector)	\$ 135.00
Technical II (Contract Spec., CADD Tech., Designer, Drafting, CA, ROW, Inspector)	\$ 110.00
Technical I (Contract Spec., CADD Tech., Designer, Drafting, CA, ROW, Inspector)	\$ 95.00
Intern II (Architecture, Engineering, Survey, Interior Design, Environmental Sciences)	\$ 90.00
Intern I (Architecture, Engineering, Survey, Interior Design, Environmental Sciences)	\$ 75.00
Executive Administrative Assistant	\$ 115.00
Administrative Assistant II	\$ 95.00
Administrative Assistant I	\$ 75.00
Field Survey:	
Survey Crew (four-man survey crew)	\$ 340.00
Survey Crew (three-man survey crew)	\$ 270.00
Survey Crew (two-man survey crew)	\$ 200.00
Field Tech III	\$ 115.00
Field Tech II	\$ 85.00
Field Tech I	\$ 70.00

Reimbursable Expenses

Travel Expenses	
Vehicle Transport	\$0.70 per mile
Travel/ Meals/ Lodging	Cost
Other Out-of-Pocket Expenses	Cost plus ten percent
Sub-Consultant/ Sub-Contractors	Cost plus five percent
Sub-Consultant/Sub-Contractors reimbursable expenses	Cost plus five percent
Printing & Shipping	
Out of house reprographic services	Cost plus ten percent
In-House B&W reprographic services (small format)	\$0.10/ sheet (8.5 x 11)
	\$0.15/ sheet (11 x 17)
In-House Color reprographic services (small format)	\$0.10/ sheet (8.5 x 11)
	\$0.15/ sheet (11 x 17)
In-House B&W reprographic services (large format)	\$0.15/ sf
In-House Color reprographic services (large format)	\$0.20/ sf
GPS equipment	\$250.00 per day



PROJECT SCHEDULE

Ellis Street Stormwater-Sanitary Sewer Separation Project - Phase I

Augusta Engineering Department and Augusta Utilities Department

Augusta, Georgia

Date: 11/3/2025

Project No. CAUG2500XX

Prepared By: MWP

	2025												2026												2027												2028												2029												2030											
1. Field Work	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Camera Work; Field Exploration; Survey	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
2. Conceptual Design & Workshop w/City	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Gather Data, Notes from Field Work	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
SUE (if necessary)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Complete Conceptual Design/Recommend	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
30% Design Internal QA/QC Review	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
30% Design Review Workshop	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
3. Design Phase	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
60% Design	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
LiDAR UAV Survey (if necessasry)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
60% Design Level Plans	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Environmental Permitting (if necessary)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
60% Design Internal QA/QC Review	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
60% Design Review Comments	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
90% Design	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
90% Design Level Plans	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Local Permitting	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
90% Design Internal QA/QC Review	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
90% Design Review Comments	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Final Design	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Complete Project Design	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Final Design Internal QA/QC Review	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
4. Bid/Project Pricing Phase	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Requests for Information (RFI's)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12												
Contract Negotiation	1	2	3	4	5	6	7	8																																																																



UTILITIES DEPARTMENT

Wes Byne, P.E.
Director

Chad Hendrix, P.E.
Assistant Director

TO: Andy Penick, Director
Procurement Department

THROUGH: Wes Byne, P.E., Director
Utilities Department

FROM: Mitchell O'Neal, Engineering Manager
Utilities Department

Cc: Chad Hendrix, P.E., Assistant Director
Utilities Department

DATE: November 17, 2025

SUBJECT: Engineering Services Justification
Ellis Street Stormwater & Sanitary Sewer Separation Project

Augusta Utilities Department (AUD) has engaged Goodwyn Mills Caywood (GMC) to provide engineering services to develop solutions that will alleviate the issues with stormwater conveyance and sanitary system infiltration and inflow along the Ellis Street corridor between Eve Street and Metcalf Street. The Augusta Engineering Department has identified this area as a priority for further evaluation and potential improvements to enhance drainage performance.

The attached proposal outlines these services, and AUD has determined that the associated costs are fair and reasonable. GMC is prequalified under RFQ 24-132, approved by the Commission on June 27, 2024.