Alfred Benesch & Company
1005 Broad Street, Suite 200
Augusta, GA 30901
www.benesch.com
P 706-722-4114
F 706-722-6219

January 20, 2026

Augusta Utilities Department
452 Walker Street
Augusta, GA 30901

Attention: **Mr. Steven M. Behrend, PE**

Subject: **Professional Services – Fort Gordon – North Trunk Sewer Main Improvements – Phase 2**
Benesch Proposal # P19-262117

Mr. Behrend:

Benesch appreciates this opportunity to submit a proposal for the North Trunk Main – Phase 2 Improvements. As discussed in our previous project review meeting, we understand that the Augusta Utilities Department (AUD) would like to proceed with the design of Phase 2 of the North Trunk Sewer Main. As discussed in the preproposal meeting on November 5, 2025, the following goals were identified as part of this project:

1. Expand the gravity sewer main west from the existing North Trunk to the 19th Street Battle Lab.
2. Eliminate the need for the lift station near the 19th Street Motor Pool.
3. Replace existing aging infrastructure along Chamberlain Avenue to facilitate future tie-ins.

This proposal includes our project approach, deliverables, schedule, and manhour/fee estimate. We appreciate this opportunity to continue our work on the Base and are available to initiate services immediately upon your notice to proceed.

Sincerely,

Alfred Benesch & Company

Victor Conover, PE, CFM
Project Manager

Erik Hammarlund, PE
Vice President

Attachments: Benesch Scope and Fee Proposal

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Augusta Utilities Department – North Trunk Main Improvements – Phase 2

Project Location & Background

Phase 2 of the North Trunk Main Improvements service the northwest side of the Fort Gordon CoE Campus and are characterized by three (3) alignments, D1, D2 and E as shown in Exhibit 1, attached. These alignments are conceptual in nature and are likely to change through the design process.

- Alignment D1 – Approximately 8,455 LF of 12" diameter PVC pipe that extends from the completed phase 1 of the North Trunk Main project and extends west along the Tributary to Butler Creek to 19th Street, then further south to Chamberlain Avenue and then east to the existing lift station near 20th Street.
- Alignment D2 – Approximately 360 LF of 12" diameter PVC that extends south from the proposed Alignment D1 to the north side of the Motor Pool area on Chamberlain Ave.
- Alignment E – Approximately 1,720 LF of 12" PVC that extends from Alignment D1 on 19th Street north to the Battle Lab located at the north end of 19th Street.

To complete the design, Benesch partnered with Toole Surveying on our team to complete field surveying services, Soil and Materials Engineers, Inc (S&ME) to complete the geotechnical investigations, and Nutter and Associates to complete the environmental documentation and studies. All subconsultants' scope and fee proposals are included as attachments to this proposal.

General tasks identified for design include Database, Project Management & Construction Documents, Geotechnical Investigations, and Environmental Documentation/Studies. Specific tasks to be completed during each of these phases have been outlined below and on the attached man-hour task sheet.

Task 1 – Database Survey

A summary of sub-tasks associated with Database Survey are as follows:

- Toole Surveying will complete a survey of the project area and develop a basemap to be used for design. A copy of their proposal is attached but some of the surveyed information will include:
  - Basemap of above ground features with 1' contours.
  - Existing underground utilities.
  - Above ground utilities.

Task 2 – Project Management & Construction Documents

Construction documents will be submitted at 30%, 60%, 90% and 100% milestones. A summary of sub-tasks associated with Project Management & Construction Documents are as follows:

Project Management

- Benesch will provide the AUD with a Major Milestone Schedule following Notice to Proceed.
    - An estimated schedule is included in this proposal and will be updated accordingly.
- Benesch will coordinate schedules, contracts, and deliverables with all subconsultants to ensure cohesive delivery of the project
- Benesch will perform in-depth reviews of all subconsultant deliverables prior to submittal to the AUD or applicable review agencies
- Benesch will facilitate 18 monthly meetings with the AUD to provide progress updates and address upcoming milestones, challenges, and questions.
- Benesch will facilitate 4 specific milestone meetings with the AUD staff with the following intentions:
    - 30% Plan Kickoff
    - 30% Plan Review and 60% Plan Kickoff
    - 60% Plan Review and 90% Plan Kickoff
    - 90% Plan Review and Final Plan Kickoff
- Benesch will document all meetings and provide copies to the Augusta Utilities Department for review and comment. Feedback gathered from all meetings will be addressed as required.

30% Design Documents

- Using the field surveyed basemap, Benesch will develop 30% Preliminary Construction Plans. Specific attention will be directed to the tie-in- locations as well as potential stream crossings. Benesch anticipates the 30% design documents to include: Cover Sheet, General Notes, Horizontal and Vertical Alignment.
- Benesch will prepare a hydraulic model to confirm system flows and evaluate pipe size alternatives.
- Benesch will prepare a technical memo detailing the modelling process and pipe sizing criteria, including existing vs. potential future flows.
- Benesch will prepare an Opinion of Probable Construction Cost (25% Contingency).
- Benesch will facilitate a 30% Project Team Review Meeting.

Easement Maps

- Benesch assumes that all proposed improvements will be located on Fort Gordon and will not require the preparation of separate easement maps. We will show project limits on the construction plans to define allowable workspace for the contractors.

60% Design Documents

- Based on comments received from the 30% review meeting, Benesch will complete 60% plans in a plan and profile format. Benesch anticipates the 60% design documents to include: Cover Sheet, General Notes, Horizontal and Vertical Alignment, Abutment Design, Design Details.
- Benesch will complete a preliminary hydraulic analysis of the aerial sewer crossing.
- Benesch will distribute 60% design documents to utility companies for review.
- Benesch will facilitate a utility coordination meeting for the project.
- Benesch will prepare an Opinion of Probable Construction Cost (20% Contingency).
- Benesch will facilitate a 60% Project Team Review Meeting.

90% Design Documents

- Based on comments received from the 60% review meeting and utility coordination efforts, Benesch will complete 90% plans in a plan and profile format. Benesch anticipates the 90% design documents to include: Cover Sheet, General Notes, Horizontal and Vertical Alignment, Abutment Design, Design Details, Erosion and Sedimentation Control Plans.
- Benesch will finalize the hydraulic analysis of the aerial sewer crossing.
- During the 90% task Benesch will assist AUD to complete Fort Gordon DPW coordination.
- Benesch will prepare Erosion, Sedimentation, and Pollution Control Plans. We anticipate a three-phase (initial, intermediate, and final) erosion control plan format.
- Benesch will coordinate ES&PC design with DPW.
- Benesch will finalize utility coordination efforts with utility companies.
- Benesch will prepare and submit all applicable permits as required:
    - Stormwater and Erosion Control.
    - Land Disturbance Permit.
- Benesch will prepare an Opinion of Probable Construction Cost (10% Contingency).

100% Design Documents

- Benesch will prepare a final deliverable for construction based on comments received during the 90% Plan review.
- Final plans will include all project specific and AUD details for construction.
- Benesch will prepare a final opinion of probable construction cost (10% Contingency).

Pre-Construction Services

- Benesch will attend one (1) pre-bid meeting and will respond to contractor requests for information (RFI).
- Benesch will attend one (1) bid opening, will review bids for general compliance and responsiveness.
- Benesch will issue a recommendation of award following bid review.
- Benesch will assist in preparation of the Notice of Intent.
- Benesch will attend one (1) pre-construction meeting.

Task 3 – Geotechnical Investigations

- Following the completion of 30% Preliminary Plans, Benesch will identify project areas with potentially deep excavation (greater than 10'). We will then discuss the need for soil borings to classify the soil and determine water table.
- Soil and Materials Engineers, Inc (S&ME) will complete the geotechnical investigation for areas identified upon completion of the 30% construction plans. A copy of their proposal is attached providing further details of their scope. In summary their services include:
    - Eight (8) soil test borings of 25 feet (6 alignment borings) to 35 feet (2 crossing borings)
    - Three (3) concrete pavement cores

Task 4 – Environmental Documentation/Studies

- Nutter and Associates (Nutter) will complete the environmental documentation and studies for the project area. A copy of their proposal is attached providing further details of their scope. In summary their services include:

- Aquatic Resource Delineation (Wetlands)
- USACE Permitting
- Stream Buffer Variance Application (if required)
- NEPA Documentation
- Cultural Resources Survey

Task 5 – Owner Allowance: A $20,000 contingency allowance has been established for this project for unforeseen project conditions that may warrant additional services. No work or fees will be invoiced towards this allowance budget without prior approval from AUD.

Project Assumptions:

- AUD will provide inflow/outflow data from the 19th Street Motor Pool Lift Station.
- AUD will provide any land use plans available for the subject sewer basin.
- The project will be designed in AutoCAD Civil 3d.
- The project will be designed according to "Minimum Standards for the Design and Construction of Water and Wastewater Systems," latest edition, prepared by the Augusta Utilities Department.

Project Exclusions:

Benesch understands the following services are not required in this contract. Should any of the following services be requested, Benesch will provide a supplemental proposal for approval:

- Easement/Right-of-Way Drawings.
- Right of way Acquisition Services.
- Bid Package Development, Advertising, and Letting Services.
- Construction Management, Oversight, Inspection.
- SUE Services.
- Traffic Control Plans.
- Hydrologic Engineering and Reporting.
- Landscape Architecture/Irrigation Design.

Schedule:

Upon Notice to Proceed, Benesch will provide a full schedule outlining the plan development process. In general, the following outlines an estimation of project duration:

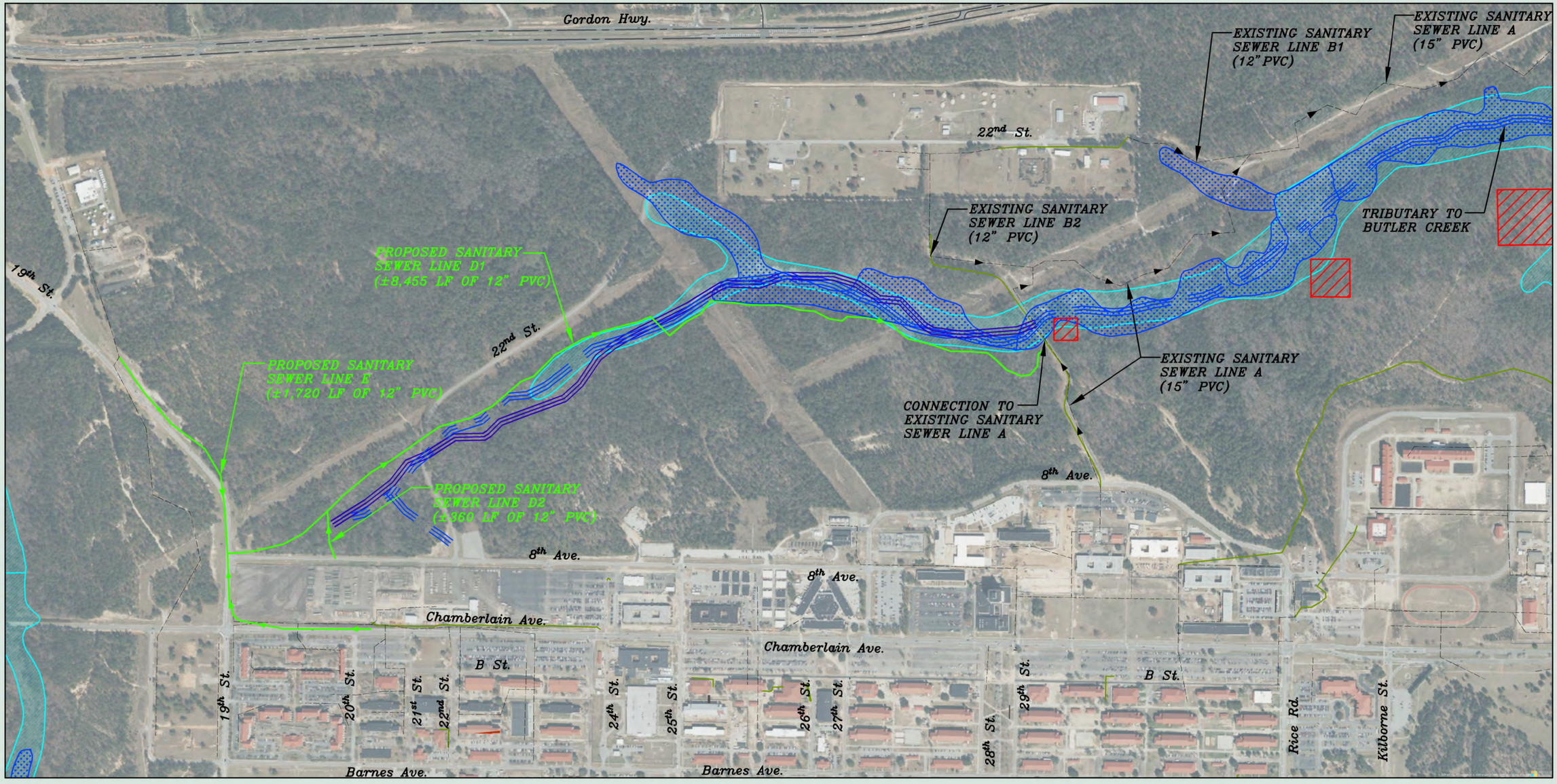
1) Field Surveying – Jan 2026 to March 2026.
2) Basemap Development – March 2026.
3) 30% Construction Plans – April 2026 to May 2026.
4) 60% Construction Plans – June 2026 – September 2026.
5) 90% Construction Plans – October 2026 to November 2026.
6) 100% Construction Plans – December 2026.

Project Fee Summary:

Proposed fees are based upon the scope of work and tasks outlined above and are to be paid for on a time and materials basis with a not to exceed value. Attached are manhour estimates providing a detailed outline of services. Please see below for a summary of fees per phase of work:

Task 1 – Database (Toole):	$ 60,700.00
Task 2 – Project Management & Construction Plans (Benesch):	$ 270,090.00
Task 3 – Geotechnical Investigation Allowance (S&ME):	$ 30,000.00
Task 4 – Environmental Documentation/Studies (Nutter):	$ 33,310.00
Task 5 – Owner Allowance:	$ 20,000.00
Total:	**$ 414,100.00**

Attachments: Concept Alignment Layout
Benesch Man-hour Estimates
Toole Surveying Company Scope and Fee Proposal
Nutter and Associates Scope and Fee Proposal
S&ME Scope and Fee Proposal



benesch
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GA GRID (EAST ZONE) NAD 83(94)

LEGEND

- PROPOSED SANITARY SEWER MAIN
- EXISTING SANITARY SEWER MAIN
- FLOODPLAIN
- WETLAND
- OFF-LIMITS AREA

SANITARY SEWER EXTENSION EXHIBIT

FORT GORDON CYBER CoE CAMPUS
AUGUSTA, GEORGIA
AUGUST 8, 2025

JOB NO.: TBD	1
DRAWN BY: MR	
CHECKED BY: OS	
SCALE: NOT TO SCALE	

Date:	1/20/2026
Project Location:	Fort Gordon, GA
Owner:	Augusta Utilities Department
Project Name:	North Trunk Sewer Main Improvements - Phase 2
Benesch Proposal #:	P19-262117

Item/ Task Description	Project Management	Survey	Environmental	Geotechnical	Owner Allowance	Preliminary Plans	Final Plans	Total
Summary								
Benesch	$ 23,810.00					$ 97,620.00	$ 148,660.00	$ 270,090.00
Toole Survey Company		$ 60,700.00						$ 60,700.00
Nutter			$ 33,310.00					$ 33,310.00
S&ME				$ 30,000.00				$ 30,000.00
Owner Allowance					$ 20,000.00			$ 20,000.00
Total	$ 23,810.00	$ 60,700.00	$ 33,310.00	$ 30,000.00	$ 20,000.00	$ 97,620.00	$ 148,660.00	$ 414,100.00

benesch

Date:	1/20/2026
Project Location:	Fort Gordon, GA
Owner:	Augusta Utilities Department
Project Name:	North Trunk Sewer Main Improvements - Phase 2
Benesch Proposal #:	P19-262117

Item/ Task Description	Principal-In-Charge	Sr. Project Manager	Senior Engineer	Project Manager	Staff Engineer	CAD Designer	Admin	Total
Project Management and Database								
Project Management (Contracts and Invoicing up to 18 months)		18					18	36
QA/QC of Subconsultant Deliverables								
Survey Basemap		4		8	24			36
Environmental Studies		4		16	40			60
Geotechnical Borings and Studies		4		8	16			28
								0
								0
								0
								0
Total	0	30	0	32	80	0	18	160

Personnel	Est. Hours	Rate/Hour	Cost ($)	Totals
Principal-In-Charge	0	$285.00	$0.00	
Sr. Project Manager	30	$210.00	$6,300.00	
Senior Engineer	0	$200.00	$0.00	
Project Manager	32	$180.00	$5,760.00	
Staff Engineer	80	$130.00	$10,400.00	
CAD Designer	0	$110.00	$0.00	
Admin	18	$75.00	$1,350.00	
Total per Rate Schedule			$23,810.00	$23,810.00
Subconsultant Costs	Number	Rate	Est. Cost ($)	
Toole Survey Company - Survey	1	$60,700.00	$60,700.00	
Nutter	1	$33,310.00	$33,310.00	
S&ME	1	$30,000.00	$30,000.00	
Owner Allowance	1	$20,000.00	$20,000.00	
Total Subconsultant Costs				$144,010.00
Total Proposed Fees				**$167,820.00**

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Date:	1/20/2026
Project Location:	Fort Gordon, GA
Owner:	Augusta Utilities Department
Project Name:	North Trunk Sewer Main Improvements - Phase 2
Benesch Proposal #:	P19-262117

Item/ Task Description	Principal-In-Charge	Sr. Project Manager	Senior Engineer	Project Manager	Staff Engineer	CAD Designer	Admin	Total
Preliminary Engineering								
30% Design Documents								
Design Documents								
Front End (Cover, General Notes, Standard Details)			1		5	10		16
Sanitary Sewer Plan and Profile			40		80	80		200
Prepare Quantities and Opinion of Probable Construction Costs (25% Contingency)			4		8			12
Internal QA/QC		24						24
60% Design Documents								
Design Documents								
Front End (Cover, Notes, Standard Details)					1	5		6
Sanitary Sewer Plan and Profile			40		120	160		320
Structural Design - Aerial Crossing Abutment			8		40			
Special Details			2		5	10		17
Design Calculations								
Preliminary hydraulic analysis of stream crossing			8		16			
Utility Coordination								
Distribute 60% Design Documents to Utility Companies			1		2			3
Facilitate Utility Coordination Meeting			2		2			4
Prepare Quantities and Opinion of Probable Construction Costs (20% Contingency)			2		4			6
Internal QA/QC		24						24
Total	0	48	108	0	283	265	0	704

Personnel	Est. Hours	Rate/Hour	Cost ($)	Totals
Principal-In-Charge	0	$285.00	$0.00	
Sr. Project Manager	48	$210.00	$10,080.00	
Senior Engineer	108	$200.00	$21,600.00	
Project Manager	0	$180.00	$0.00	
Staff Engineer	283	$130.00	$36,790.00	
CAD Designer	265	$110.00	$29,150.00	
Admin	0	$75.00	$0.00	
Total per Rate Schedule			$97,620.00	$97,620.00
Subconsultant Costs	Number	Rate	Est. Cost ($)	
			$0.00	
			$0.00	
			$0.00	
			$0.00	
Total Subconsultant Costs				$0.00
Total Proposed Fees				**$97,620.00**

benesch

Date:	1/20/2026
Project Location:	Fort Gordon, GA
Owner:	Augusta Utilities Department
Project Name:	North Trunk Sewer Main Improvements - Phase 2
Benesch Proposal #:	P19-262117

Item/ Task Description	Principal-In-Charge	Sr. Project Manager	Senior Engineer	Project Manager	Staff Engineer	CAD Designer	Admin	Total
Final Engineering								
90% Design Documents								
Design Documents								
Front End (Cover, General Notes, Standard Details)			1		5	10		16
Sanitary Sewer Plan and Profile			40		80	80		200
Structural Design - Aerial Crossing Abutment			20		20			
Special Details			1		2	5		8
ESPC Plans			24		80	80		184
Utility Coordination								
Finalize Utility Coordination			1		2			3
Prepare Draft Contract Documents and Technical Specificaitons			24		40			64
Submit Documentation for Permitting			8		16	24		48
Prepare Quantities and Opinion of Probable Construction Costs (10% Contingency)			4		8			12
Internal QA/QC		24						24
Final Design Documents								
Design Documents								
Front End (Cover, General Notes, Standard Details)			1		5	10		16
Sanitary Sewer Plan and Profile			20		60	60		140
Special Details			1		2	5		8
ESPC Plans			24		40	40		104
Finalize Contract Documents and Technical Specificaitons			24		40			64
Finalize Permitting Requirements			8		16			24
Prepare Quantities and Opinion of Probable Construction Costs (10% Contingency)			4		8			12
Internal QA/QC		24						24
Pre-Construction Services								
Attend Pre-Bid Meeting			2		2			
Address RFI			8		16			
Attend Bid Opening		2	2					
Bid review and Award Recommendation			2		4			
Notice of Intent Support			4		8			
Total	0	50	223	0	454	314	0	1041

Personnel	Est. Hours	Rate/Hour	Cost ($)	Totals
Principal-In-Charge	0	$285.00	$0.00	
Sr. Project Manager	50	$210.00	$10,500.00	
Senior Engineer	223	$200.00	$44,600.00	
Project Manager	0	$180.00	$0.00	
Staff Engineer	454	$130.00	$59,020.00	
CAD Designer	314	$110.00	$34,540.00	
Admin	0	$75.00	$0.00	
Total per Rate Schedule			$148,660.00	$148,660.00

Subconsultant Costs	Number	Rate	Est. Cost ($)	
			$0.00	
			$0.00	
			$0.00	
			$0.00	
Total Subconsultant Costs				$0.00
Total Proposed Fees				**$148,660.00**

Toole Surveying Company, Inc.

308 Fourth Street · Augusta, Georgia 30901
(Voice) 706-722-4115 · (Fax) 706-722-4118 · www. toolesurveying.com

November 22, 2025

Alfred Benesch
1005 Broad Street
Augusta, Georgia 30901

Attention: Oliver Weston, PE

Subject: Fort Gordon North Trunk Line Sanitary Sewer Route Survey
Database Preparation

Toole Surveying Company, Inc. (TSC) appreciates this opportunity to propose our surveying services to you for the above referenced project. The following proposal briefly outlines our scope of services, a time frame for completion, and the cost associated with these services.

SCOPE OF SERVICES

Toole Surveying Company will provide the following services:

- Horizontal and vertical control will be established using Georgia State Plain coordinates, 1983 (2011) East Zone datum. Carlson BRX7 sub centimeter accuracy GPS units will be used to establish horizontal and vertical control for the project. All horizontal distance will be US Feet, "Ground Coordinates" unless otherwise directed. A minimum of one benchmark per 1000' will be established for your use.
- A topographic survey along the route indicated in a drawing provided by you. The route is approximately 10,500 linear feet.
- The general width of the corridor to be surveyed is 100'. The Topographic Survey will show 1-foot contour intervals based on 50' cross sections within the limits of the outlined 100'corridor. We will provide 200 feet of additional topographic information in either direction at the creek crossing to allow for design adjustment. Topographic surveying outside the project corridor can be provided on an hourly basis or an additional lump sum fee as the need arises.
- Known lateral storm or sanitary sewers line, if any, crossing the proposed route will be located and mapped.
- Wood lines will be delineated. Individual trees will not be located.
- Underground utilities will be compiled from a combination of visible above ground structures and available utility maps provided to us.
- Utility poles (power poles) will be located within the vicinity of the corridor including structure numbers.
- The Flood Plain location will be taken from the Richmond County GIS and COE mapping.
- The wetland flags within the project corridor will be located and mapped (delineation by others).
- Individual sheets will not be set up in ACAD due to design considerations.

FEES

These services will be provided for the lump sum fees shown below:

Sanitary sewer route survey	$60,700.00

DELIVERABLES

- 1 Electronic AutoCAD Civil 3D 2025 drawing file.

EXEMPTIONS

- TSC assumes no liability for the inclusion or accurate location of non-visible underground utilities. A qualified Subsurface Engineer would be required to locate any non-visible utilities in the project area. Non-visible underground utility location is not included in this scope of services.
- Wetland delineation will be provided by others. A map of the delineation location with flag numbers will be provided to Toole Surveying by the delineator. Wetland plats for submittal to the C.O.E. are not included in this scope of services.
- Easement plats are not included in this scope of services.
- This proposal assumes a wintertime window for the survey. A summertime window will require a price adjustment.

TIME-FRAME

Field services will be initiated within 14 days of written authorization to proceed and the receipt of Fort Gordon Security Passes. The final topographic survey will be provided to your office within approximately 60 working days thereafter.

Again, Toole Surveying Company, Inc. appreciates the opportunity to offer our professional services to you. Should you have any questions regarding the information contained herein, please do not hesitate to contact us. We look forward to working with you on this project.

Sincerely,

Toole Surveying Company, Inc.
Barry A. Toole, PLS
Project Manager

BAT; tlr

NUTTER+ASSOCIATES
ENVIRONMENTAL CONSULTANTS

360 Hawthorne Lane
Athens, GA 30606-2152
P (706) 354-7925
F (706) 354-7928
www.NutterInc.com

December 9, 2025

Mr. Vic Conover
Benesch
1005 Broad Street, Suite 200
Augusta, GA 30901

Subject: Scope of Work and Budget for Aquatic Resources Delineation, Cultural Resources Survey, and Permitting Assistance, Fort Gordon Cyber CoE Campus Sanitary Sewer Extension, Augusta, Georgia. Proposal No. 26-014.00.

Mr. Conover,

Nutter & Associates, Inc. (NAI) is pleased to provide this scope of work and budget for environmental permitting services at the above-referenced site. We understand the proposed project will include construction of a sewer line extension adjacent to a named stream at Fort Gordon in Augusta. This proposal includes a site visit, cultural resources survey, and aquatic resource delineation to confirm the location of waters of the US that may require US Army Corps of Engineers (USACE) permitting, and waters of the state with a regulated 25-foot buffer.

This proposal also includes tasks necessary to obtain any necessary permits to complete the proposed sewer line construction. NAI will prepare a stream buffer variance (SBV) application to the Georgia Environmental Protection Division (GA EPD) which includes coordination with the Local Issuing Authority (LIA), Augusta-Richmond County (ARC). ARC has the ultimate discretion to determine whether a SBV for any disturbance to the existing 25-foot stream buffer of the unnamed tributary to Butler Creek is necessary. To complete the SBV application, NAI will coordinate with the appropriate project engineers and design professionals to obtain necessary sediment and erosion control documents and construction drawings once they are completed. This SOW also includes a task to prepare a USACE Nationwide Permit application. Finally, a task to prepare necessary reports and documents for US Department of Defense National Environmental Policy Act (NEPA) procedures is included. Coordination with Fort Gordon personnel will be necessary to determine the ultimate scope of the NEPA task.

SCOPE OF WORK

TASK 1: AQUATIC RESOURCE DELINEATION

Nutter & Associates will visit the site and delineate any aquatic resources in general accordance with the *Regional Supplement to the Corps of Engineers Eastern Mountains and Piedmont Region*

(Version 2.0), dated April 2012. The soils, observed dominant plant species and hydrologic conditions will be investigated in all areas that, based on landscape position, are potentially wetlands. Wetland Determination Data Forms will be completed at each location where soil, plants, and hydrologic conditions are described. Identified stream boundaries and wetland boundaries will be flagged in the field and recorded using a Trimble Geo 7X Global Navigation Satellite System (GNSS) receiver.

After completion of the field work, if necessary, we will prepare an Aquatic Resources Delineation Report documenting the field investigation and our findings. The collected GNSS data will be differentially corrected and exported into ArcGIS® software and the wetland and stream features will be plotted to create an aquatic resources delineation map. Additional figures constructed from USGS topographic mapping, NRCS soil mapping, NWI mapping, and FEMA mapping (if available) will also be included in the report. Photographs of the site characteristics and aquatic resources will be presented in the report appendix. Copies of the wetland and stream determination data forms will also be presented in the report appendix.

TASK 2: USACE PERMITTING

Based on a desktop review of the site, existing conceptual drawings, and the project will involve placement of fill within an unnamed tributary to Butler Creek and surrounding floodplain wetlands. Based on the results of the aquatic resources delineation, Nutter & Associates will complete a PCN for a Nationwide 404 Permit No. 58 for Utility Line Activities for Water and Other Substances for submittal to the USACE along with the aquatic resource delineation report and a request for USACE Delineation Review (SAS Appendix 1). Statements regarding the presence of endangered species will be based on site observations and information obtained from the Georgia Natural Heritage Program. Statements regarding the presence of historical or archeological resources will be based on site observations. Any potential resources identified at the site will be checked against the National Register of Historic Sites list. Information regarding construction (e.g., grading plans, materials) will be based on client-provided construction specifications. The PCN and delineation report will be submitted to you upon completion. The PCN documentation will require the signature of the applicant and pertinent landowner(s) prior to submittal to the USACE. This proposal includes a site concurrence visit with the USACE should it be requested. While a site visit is not required for issuance of a NWP, the USACE reserves the right to request one. This scope of work does not include a task for obtaining a USACE Individual Permit should the USACE determine that a NWP is not applicable.

TASK 3: STREAM BUFFER VARIANCE APPLICATION

A Stream Buffer Variance (SBV) is required for most land disturbing activities located within the 25-foot buffer of state waters. Based on proposed design plans, we anticipate that the local issuing

authority will determine that a SBV is required for land disturbing activities within the 25-foot buffer of the unnamed tributary to Butler Creek. The proposed sewer line crossing of the tributary is exempt from the SBV. The final determination concerning the need for a SBV is at the discretion of the Local Issuing Authority (LIA). For the proposed project, Augusta-Richmond County acts as the LIA. This task includes necessary coordination with ARC to determine whether a SBV is necessary. Written documentation from ARC will be provided to Benesch with their determination of whether a SBV is necessary or not.

If a SBV is deemed necessary by the LIA, Nutter & Associates will prepare the SBV application and all necessary supplemental materials in general accordance with Georgia Department of Natural Resources Rule 391-3-7.05. The SBV application requires submittal of design drawings and an Erosion, Sedimentation and Pollution Control Plan (ESPCP). We will coordinate with the project engineer to ensure the drawings and ESPCP contain the information required for the SBV application. The stream buffer variance package will include the buffer application, site map, and physical description of the property including details of the proposed buffer disturbance, a sealed copy of the project engineer's ESPCP, and a copy of the letter from the LIA stating it has determined the project requires a stream buffer variance. These documents are necessary to make the buffer variance application submittal complete. Our scope of services does not include preparation of grading plans, utility plans, or preparation of the ESPCP for the project as required for an EPD stream buffer variance.

We anticipate that a complete SBV application package can be submitted to GA EPD within two to four weeks of receipt of the final ESPCP. Based on recent SBV submittals, we anticipate that GA EPD could take up to 90 or 150 days to issue the SBV.

TASK 4: NEPA DOCUMENTATION

This task includes time to assist in preparation of an Environmental Assessment (EA) or Record of Environmental Consideration (REC) in accordance with current Department of Defense (DoD) NEPA regulations and procedures, as appropriate. Many NEPA regulations were repealed by Executive Order in June 2025, including Department of Defense (DoD) regulations. However, it is currently our understanding that the Army continues to rely upon previously established NEPA guidelines. NAI will coordinate with personnel at Fort Gordon and or DoD with expertise in NEPA to facilitate the appropriate course of action prior to proceeding with assisting in the preparation of an EA or a REC, as directed by DoD.

TASK 5: CULTURAL RESOURCES SURVEY

NAI will conduct a Phase I intensive archaeological survey of the proposed approximately 2-mile long sewer line extension. The survey will be conducted in accordance with Section 106 of the

National Historic Preservation Act of 1966, as amended, which requires that federal agencies that fund, license, or regulate projects consider the project's effects on significant cultural resources. To complete the survey, a pedestrian survey and one shovel test transect will be performed to identify cultural resources across the project area. Shovel tests will be located approximately 30-m apart, and will consist of 30-cm-diameter holes excavated to subsoil or sterile soil with all excavated fill screened through 0.64-cm (0.25-in) wire mesh. In areas that have experienced significant disturbance, shovel test intervals may be increased according to the Georgia Standards and Guidelines.

If an artifact is recovered from a shovel test, the spatial extent of the artifact scatter will be delineated by the excavation of shovel tests placed in a cruciform pattern on a 10 or 15-m interval. A project specific site form will be completed, a sketch map drawn, GPS location recorded, and photographs taken to further document each site. Artifacts will be analyzed by the investigator and prepared for permanent curation according to State standards and guidelines. Upon completion of all field and laboratory work, a detailed technical report will be provided within 4 weeks after fieldwork concludes that includes context, methods, results, and recommendations as to site eligibility, as appropriate. Should adverse weather conditions persist on the site that make outdoor work unsafe or impractical, fieldwork will be rescheduled to allow safe and effective field operations, and the project timeline will be adjusted accordingly.

BUDGET

Our estimated not-to-exceed cost for the tasks outlined above is:

Task 1. Aquatic Resources Delineation	$4,300
Task 2. USACE Permitting	$5,320
Task 3. Stream Buffer Variance	$7,600
Task 4. NEPA Documentation	$6,690
Task 5. Cultural Resources Survey	$9,400
Total	**$33,310**

The cost is representative of the actual costs associated with performance of the tasks outlined above. This budget includes all project costs, including all professional fees and expenses, field work, travel, data interpretation, and report preparation. This cost does not include any potential mitigation credit purchasing costs.

Should situations be encountered during the course of the project such that the scope of work and/or budget are changed, Nutter & Associates will contact you prior to performing out-of-scope tasks.

If the Scope of Work meets your needs and the budget is acceptable, please return a signed copy of the attached Professional Services Agreement. This will authorize us to begin work and will serve as your acceptance of our terms.

Nutter & Associates is pleased to provide these services. If you have any questions regarding the proposed budget and/or scope please do not hesitate to contact us. We look forward to working with you.

Sincerely,

NUTTER & ASSOCIATES, INC.

Shelley R. Dodd
Project Scientist

Lane Rivenbark, CPSSc, RF
Principal, Senior Scientist

December 18, 2025

Benesch
1005 Broad Street, Suite 200
Augusta, Georgia 30901

Attention: Mr. Victor Conover, P.E., CFM – Project Manager/Associate

Reference: **Proposal for Geotechnical Exploration Services**
Fort Gordon Cyber CoE Campus Sanitary Sewer Extension
Augusta, Georgia
S&ME Proposal No. 25190091

Dear Mr. Conover:

S&ME, Inc. appreciates the opportunity to submit this proposal for geotechnical exploration services for the above-referenced site. This proposal outlines our approach to completing the requested scope of services, our schedule and an estimate of fees. Our services will be performed in accordance with a mutually agreed upon Subconsultant Services Agreement with Benesch.

Information regarding the project was provided in email correspondence from Mr. Victor Conover, of Benesch, to Mr. Matt Cooke, of S&ME, on December 16, 2025. Included in the correspondence was a *Sanitary Sewer Extension Exhibit*, prepared by Benesch, dated August 8, 2025, depicting the approximate proposed new alignment.

♦ Project Information

From our review of the provided information, we understand the project site consists of a roughly 10,535 linear foot proposed sanitary sewer alignment corridor on the Fort Gordon base, that extends from the intersection of 24th Street and Chamberlain Avenue, along Chamberlain Avenue to the west, then turn north along 19th Street for roughly 2,000 feet. Along the 19th Street alignment, the alignment branches to the northeast, roughly 150 feet south of the existing overhead power easement and extends roughly 3,500 linear feet, to a northwest/southeast crossing of a stream, then continues in an easterly direction for roughly 3,000 linear feet to a connection to existing sanitary sewer line A. Details on the planned depth of the sewer line along the alignment were not known at this time.

♦ Scope of Services

From our review of the provided information and on-line aerial imagery, we understand that the alignment extends within and across the existing roadway right-of-ways, existing overhead power easements and woodlands. There is a potential option for the alignment to also traverse the existing motor pool. Therefore, we have assumed the proposed boring locations are accessible with our ATV-mounted drill rig, and some mechanized clearing will be required. We assume our work can be conducted during normal business hours. We assume Benesch will coordinate with the base for permission to clear/core/drill on-site prior to our mobilization. We

propose to provide the following scope of services to provide information about subsurface conditions at the sites. The following scope of services was concluded from our review of the project information provided.

- Visit the site to observe site surface conditions and stake the boring locations using hand-held GPS equipment. The boring locations will be determined by S&ME personnel considering site access, traffic control factors, and utility locations.
- Contact the Georgia 811 service to mark public utilities within a 30-foot radius of each boring location.
- Subcontract a private locator who will utilize a combination of ground penetrating radar (GPR) and radio-frequency electromagnetic (EM) pipe and cable locators to scan the boring locations prior to drilling in order to avoid encountering subsurface utilities during drilling activities.
- Obtain a dig permit through Fort Gordon, if necessary. Please be aware that our schedule assumes a timely response to our permit application; however, delays associated with the permit that are out of our control may affect the project schedule.
- Subcontract a timber grinder (or similar clearing equipment) and operator to perform clearing for access trails to the proposed boring locations in wooded areas. Trails about 12 to 15 feet wide will be cleared, with trees pushed over and to the side or chipped in-place. No attempt will be made to stack or remove downed trees from the site.
- Subcontract a licensed coring subcontractor to core the existing concrete pavement at three (3) locations within the motor pool for potential alignment to provide concrete thickness measurements.
- Mobilization of an ATV-mounted drill rig and crew to the site.
- S&ME will perform a total of eight (8) soil test borings, extended to depths of 25 feet (6 alignment borings) to 35 feet (2 crossing borings), or refusal, each. Borings will have Standard Penetration Test sampling at intervals of 2½ feet in the upper 10 feet and at 5-foot intervals thereafter. A total drilling footage of 220 feet is planned, and we assume that rock coring will not be required to achieve the planned boring termination depths.
- Groundwater levels will be measured at the time of boring and prior to leaving the site. Groundwater levels will be re-measured at least 24 hours after completion of drilling, if the boreholes can safely be left open overnight.
- Boreholes will be backfilled with auger cuttings with a plastic hole plug will be firmly tamped into place within the backfill at a depth of about two feet. Boreholes within the roadways will be backfilled with bentonite chips and the surface pavements patched with like materials.
- Stratification of the boring samples by a geotechnical professional.
- Perform moisture content, Atterberg Limit, and/or grain size distribution tests on selected soil samples, as deemed necessary by the geotechnical engineer.

Geotechnical Report

Upon completion of the field and necessary laboratory testing, we will prepare a formal report of our findings and recommendations. Among the items included in our report will be:

- Site description,
- Boring location plan,
- Log of each boring which describes site soils and illustrates stratification changes, subsurface data, and groundwater levels,

- Laboratory test results,
- Conclusions and recommendations regarding excavation considerations, dewatering considerations (if necessary), reuse of on-site soils as structural fill, bedding considerations, fill placement and compaction and shallow foundation support for the stream crossing location.

Deliverables

- S&ME will provide a single hardcopy and/or digital copy of the final Geotechnical Report in .pdf format.

Assumptions

- Excess drill cuttings and/or fluids will be spread near the boring location within the existing right-of-way.
- S&ME can perform the borings during a single drill rig mobilization to the project site.

♦ Excluded Services

Without attempting to be a complete list or description of all services or potential services that will be excluded from this proposal and performed by S&ME, the following services are specifically excluded from this proposal:

- Environmental, Wetlands, Protected Species or Cultural Resources services.
- Pavement Condition Assessment.
- Surveying of boring locations or elevations.
- On-site or remote site safety training.
- Obtaining any necessary permits (other than Base required).
- Payment of any application fees.
- Repairs to landscaping, hardscaping, pavements, irrigation systems, or other utilities that result from the drill rig accessing the test locations and advancing the boreholes.
- Replacement or reconditioning of site to pre-clearing conditions
- Replacement or reconditioning of surface materials to pre-drilling conditions.
- Damage to utility lines or subsequent loss of service if utility locations are not made known to us or are improperly located by others.
- Re-patching of core holes if settlement occurs.
- Rock coring of auger refusal materials.
- Geophysical studies or testing.
- Traffic control.
- Infiltration or percolation rate testing.
- Field or laboratory determination of soil corrosion properties.
- Field determination of seasonal high water table (SHWT).
- Containerizing or environmental sampling/testing of drill spoils.
- Seismic site classification per IBC, Shear wave velocity measurements, Liquefaction analysis or Site specific response analysis.
- Jack-and-bore or HDD analysis or design recommendations.
- Deep foundation analysis or design recommendations.
- Dewatering system design.

- Rigid pavement thickness and construction recommendations.
- Construction materials testing (CMT) services.
- Expert witness or testimony.
- Addenda to the report to address changes or additions to the proposed project not known to us at the time of this proposal or not provided to us prior to issuance of the report.
- Review of plans, specifications, contractor submittals, or other construction documents.
- Project meetings.
- Aspects of site safety other than safety of S&ME employees.

We can perform the above services and can provide additional information/proposals regarding these services upon request.

♦ Schedule

We can generally make an initial site visit to lay out the borings and conduct a site reconnaissance within 7 to 10 working days of receiving notification to proceed. At the time of this proposal, SPT drill rig mobilization backlogs of 3 to 4 weeks are common, pending driller availability. It is important to note that our mobilization is predicated on receipt of the Base permissions and permit. Pavement coring activities will require approximately 1 working day and can be completed prior to drill rig mobilization. Private utility locate and clearing activities will require approximately 1 working day each to complete and must be performed prior to drill rig mobilization.

After mobilization, SPT drilling activities will require approximately 2 to 3 working days to complete. Field activity durations are weather dependent. Laboratory testing activities may require 5 to 7 working days to complete. Our report will be completed about 7 to 10 working days after completion of necessary laboratory work, or up to roughly 4 weeks after initial rig mobilization.

Holiday Scheduling Note: For projects that are authorized to proceed between now and January 5, 2026, please allow up to two (2) additional weeks in the project delivery schedule beyond the schedule that is described above. This is to accommodate the increased backlog effects associated with the upcoming Christmas and New Year holiday period.

♦ Associated Fees

Based on our present understanding of the proposed project, current site conditions, and our estimate of time and expenses, we can perform the above-described scope of services for the lump sum fee of $30,000. *This quotation is valid for 90 days.*

During our geotechnical exploration, on-site project delays (excluding weather delays) which occur through no fault of S&ME (such as locked gates or denial of access) will be billed at an additional $375 per standby hour per mobilized soil test rig and/or $135 per staff professional.

♦ Client Responsibilities

The Scope of Services, fee and project schedule presented herein are contingent upon the client fulfilling the following responsibilities:

1. Provide written authorization to proceed.
1. Provide access to the property and permission to core/clear/drill on-site.
2. Provide State Plane coordinates for the project prior to our mobilization to the site, if available.
3. Provide Base coordination.
4. Upon receipt of our invoice, payment must be provided in net 30 days.

♦ Use of Proposal/Report

This proposal is solely intended for the Basic Services as described in the Scope of Services. The Scope of Services may not be modified or amended, unless the changes are first agreed to in writing by the Client and S&ME. Use of this proposal and corresponding final report is limited to above-referenced project and Client. No other use is authorized by S&ME.

♦ Authorization

We will perform these services in accordance with a mutually agreed upon Subconsultant Services Agreement with Benesch.

♦ Closure

S&ME appreciates the opportunity to be of service to you. If you have questions regarding the outlined scope of work, or if we may be of further assistance, please call us at 803.561.9024.

Sincerely,

S&ME, Inc.

Robert C. Bruorton, P.E.
Principal Engineer/Principal Project Manager

Kristen H. Hill, P.G., P.E.
Regional Director