NOTICE TO PROCEED

TO:	Hussey, Gay, Bell & Deyoung, Inc., Consulting Engineers
RE:	NOTICE TO PROCEED
T	Cask Order 22-105-006 – WWTP Design and Construction Management
	e consider this your NOTICE TO PROCEED on the above referenced project. In accordance the terms of the contract, work is to commence within 24 hours receipt of the Notice to Proceed
	s otherwise agreed and to be completed within calendar days from that time.
	Dated thisday of, 2022
	Effingham County Board of Commissioners
	Wesley Corbitt, Chairman
ACCE	EPTANCE OF NOTICE:
Receip	pt of the above Notice to Proceed is acknowledged.
Contra	actor:
By:	
Title:	
Date o	of Acceptance:

Attachment A - Task Order 22-105-006







Request for Proposal

No. 22-105-006

WWTP Design and Construction Management

May 26, 2022 - 10:30 AM



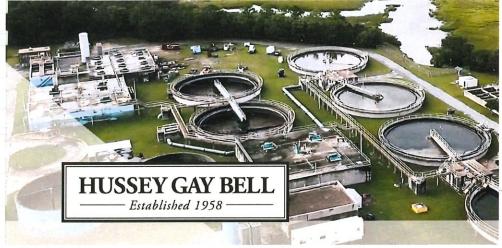




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Project Site Aerial (provided by Effingham County)

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Appendix: Receipt of Addendum



A. Letter of Interest

May 26, 2022

Ms. Alison Bruton, Purchasing Agent Effingham County Board of Commissioners 804 S. Laurel Street Springfield, GA 31329

RE: Request for Proposal 22-015-006 WWTP Design and Construction Management

Dear Ms. Bruton and Members of the Selection Committee:

Hussey, Gay, Bell & DeYoung, Inc., Consulting Engineers (herein referred to as "Hussey Gay Bell") is pleased to submit our proposal to the Effingham County Board of Commissioners for the WWTP Design and Construction Management request for proposal. Hussey Gay Bell and our subconsultants proposed for this contract commit to the requirements specified in the RFP, and we provide the following unique differentiators for your consideration:

A Record of Performance On Similar Projects. To date, Hussey Gay Bell has designed 60+ wastewater treatment plant projects ranging from new construction and expansions to equipment upgrades and rehabs throughout the southeast with capacities ranging from 0.098 MGD to 27 MGD. In recent years, our team worked on rehab, upgrade or new construction designs for 9 WWTPs throughout the region including the Pooler 2.5 MGD MBR plant, Jesup 2.5 MGD plant and Chapin 2.4 MGD plant, which are similar to your project in size and scope.

Right Team, Right Expertise. Our team was hand-selected to provide you with the leadership, technical expertise, and experience necessary to successfully deliver this project. As Project Manager for the proposed contract, Chris Burke brings 26 years of WWTP design expertise to this project. He will be supported in-house by 40-year wastewater treatment design veteran, Forest Suggs III, PE, site/civil expert, C.J. Chance, PE, structural expert, Mike Zaitz, PE and survey/GIS lead, Nathan Brown, PLS who have worked extensively with him on water/wastewater facilities. In addition, Chatham Engineering, Terracon Consultants and Resources+Land Consultants are committed to support us providing electrical, geotechnical and wetlands services respectively. We have collaborated with them successfully on so many projects for over decades, in particular water/wastewater facilities for municipalities.

Our Approach Maximizes Your Schedule and Creates Value. Our team has ability to deliver this project expeditiously and competitively. We know the project area and challenges that must be mitigated and/or avoided during the course of the project. Hussey Gay Bell's extensive experience with the types of permits that will be necessary for this project will allow our team to expedite the design schedule to the greatest extent possible.

Per the requirements of the RFP, please find accompanying this letter one (1) original and one (1) copy of our proposal. We formally acknowledge receipt of Addendum No. 1 dated 5/19/2022. We appreciate the opportunity to propose and look forward to your favorable consideration. Please contact me at 912.354.4626 or cchance@husseygaybell.com (cc: cburke@husseygaybell.com) if you have any questions or desire additional information in making your selection.

Sincerely,

HUSSEY, GAY, BELL & DEYOUNG, INC., CONSULTING ENGINEERS

C.J. Chance, PE

Principal-In-Charge/IDC Project Manager

Chris Burke, PE

Contract Project Manager

B. Proposed Schedule

HUSSEY GAY BELL Established 1958

B. Project Schedule

For your project, we are proposing a 29-month schedule from kick-off meeting to construction completion as follows. We have provided a total number of calendar days to complete all items of work.

TASK						DURATION					
	MONTH 1 MOI	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9	0 0 0 0	MONTH 29
Kick-Off Meeting	1 day										
Design Development Report	60 days										
Survey & Geotechnical Investigation	30 days										
Preliminary Engineering (60%)		60 days	ys								
Final Engineering (90%)					90 days						
Permitting *						150 days					
Bidding/Award							09	60 days			
Construction									^	>> 21 months >>	☆
Closeout											30 days

* Permitting task duration is based on regulatory review time. Georgia EPD's review of the Design Development Report and Construction Plans and Specifications is critical to the schedule of the project.



1) Expertise and Experience

To date, Hussey Gay Bell has designed 60+ wastewater treatment plant (WWTP) projects ranging from new construction and expansions to equipment upgrades and rehabs throughout the southeast with capacities ranging from 0.098 MGD to 27 MGD. In recent years, our team worked on rehab, upgrade or new construction designs for 9 WWTPs throughout the region and currently, we are working on 5 WWTPs. To demonstrate the depth of our relevant experience, the following is a sample of WRF/WWTPs we designed and constructed for municipalities or publicly owned utilities in Georgia and South Carolina alone. We have ability to meet the requirements of the RFP.

		PROVIDED SERVICES RELEVANT TO THE PROPOSED PROJECT											
PROJECTS	Capacity (MGD)	Surveying	Concept Design	Preliminary Design	Final Design	Permitting	Environmental	Geotechnical	Structural	Specifications	Bidding Assistance	Construction Phase Services	Start-up Assistance
South Bryan County WWTP, Bryan County, GA	1.0	1	1	1	1	1	1	1	1	1	1	1	1
Bacon Park WWTP, Savannah, GA	1.0	1	1	1	1	1	1	V	V	1	1	1	1
Sterling Creek WRF, Richmond Hill, GA	4.0	1	1	1	1	1	1	1	1	1	1	1	1
Crossroads WQCP, Savannah, GA	3.0	1	1	1	1	1	1	1	1	1	1	1	1
Jesup WWTP, Jesup, GA	2.5	1	1	1	V	1	1	1	V	1	1	1	1
Pooler WWTP, Pooler, GA	2.5 3.3 6.0	1	1	1	1	1	1	1	1	1	1	1	1
Sylvania WWTP, Sylvania, GA	1.51	√	1	√	1	1	1	1	1	1	1	1	1
Georgetown WWTP, Savannah, GA	2.45	1	1	1	1	1	1	1	1	1	1	1	1
President Street WQCP Addition/ BioSolids, Savannah, GA	4.0 27	1	1	1	1	1	1	1	1	1	1	1	1
Statesboro WWTP, Statesboro, GA	10	1	V	1	1	1	1	1	1	1	1	1	1
Tybee Island WWTP, Tybee Island, GA	1.0	√	√	√	1	V	1	1	V	1	1	1	1
Dunbar Creek WWTP, St. Simons Island, GA	4.0	1	1	1	1	1	1	1	1	1	1	1	1
Academy Creek WPCP, Brunswick, GA	13.5	1	1	1	1	1	1	1	1	1	1	1	1
Central Berkeley WWTP, Moncks Corner, SC	6.0	1	1	1	1	1	1	1	1	1	1	1	1
Chapin WWTP, Chapin, SC	2.4	√	1	1	1	1	1	1	1	1	1	1	1
Broad Creek WWTP, Hilton Head Island, SC	2.5	1	1	1	1	1	1	1	1	1	1	1	1
Fripp Island WWTP, Fripp Island, SC	0.5 0.75	1	1	√	√	√	√	4	√	1	1	1	1



2) Team's Performance on Similar Projects

Hussey Gay Bell has provided design and construction phase services for numerous WWTPs in similar size and scope. The following is a summary of similar projects demonstrating our team's volume of services and expertise adaptive to each project.

PROJECTS	TEAM'S SERVICES	TEAM'S EXPERTISE
2.5 MGD Jesup WWTP Jesup, GA	Surveying, Conceptual/Preliminary/Final Design, Environmental Planning Document & Review, Geotech, Architecture, Structural, Watershed Monitoring Plan, Assessment & Protection Plan Land Application Permit Application, Permitting, Layout of Future Phases, Bidding & Negotiations, Construction Phase Services, O&M Manual Preparation, Start-Up & Training Services	 Full design and construction phase services Provided a best value solution to the owner working closely with the city and the contractor Significant savings by developing VE alternatives for demolition of the existing plant Maximized the existing infrastructure available at the plant Designed to EPA Class I Reliability standards
2.5 MGD MBR Plant; Expansion to 3.3 MGD WWTP; Expansion to 6.0 MGD WWTP Pooler, GA	Surveying, Alternative Technology Evaluation, Antidegradation Analysis, Environmental Information Document, Design Development Report, Preliminary & Final Design, Watershed Assessment, Discharge Permit Application Preparation, Architecture, Structural, Bidding, Construction Phase Services, O&M Manual Preparation, Start-Up & Training Services	 Full design and construction phase services Constructed on a very small tract of land next to an existing 0.98 MGD aerated lagoon facility Designed upgrade to 3.3 MGD and 6.0 MGD on the existing footprint Construction challenges including foundation modifications & piling, construction of an access road and maintenance of the existing facility during construction Extensive coordination between the owner, engineer and contractor to perform the upgrades while keeping the plant in operation
2.4 MGD Chapin WWTP Chapin, SC	Surveying, Date Collection, Hydraulic Modeling, Conceptual/Preliminary/Final Design, Environmental, Structural, Civil/Site Development, Permitting, Construction Phase Services, O&M Manual Preparation, Start-Up & Training Services	 Full design and construction phase services to double the plant capacity Constructed adjacent to the existing WWTP Designed to meet Town's schedule & budget Reviewed various options for process technology and equipment selection to meet existing and future effluent requirements Utilized all existing infrastructure to the maximum benefit possible Site designed with stormwater infrastructure to provide positive drainage around structures and across access roads
2.5 MGD Broad Creek WWTP Hilton Head Island, SC	Alternative Technology Evaluation, Hydraulic Modeling, Environmental Information Document, Design Development Report, Conceptual/ Preliminary/Final Design, Civil, Structural, Reuse Water Disposal Site Permitting, Bidding, Construction Services, Closeout, O&M Manual Preparation, Start-Up and Training Services	 Full design and construction phase services Multiple upgrades to WWTP for 30+ years Major WWTP upgrades to existing solids handling facilities Expertise of a variety of solids dewatering technologies MBR study

3) Project Approach/Work Plan

Project Understanding

Hussey Gay Bell understands that Effingham County requires more wastewater treatment capacity to support development than is currently available at the existing wastewater treatment plant (WWTP). The County's existing WWTP has a wastewater treatment capacity of 1.0 million gallons per day (MGD). New industrial, commercial and residential development planned in the County is expected to generate wastewater which will quickly exceed 1.0 MGD. The County has requested engineering proposals for planning, design, permitting and construction services for a new 2.0 MGD WWTP adjacent to the existing WWTP. Hussey Gay Bell's combination of experience with WWTP design and construction along with knowledge of Effingham County's existing wastewater system and development perfectly aligns Hussey Gay Bell to assist the County in achieving the goals of the project. Hussey Gay Bell can start the project immediately without lengthy delays getting familiar with the needs of Effingham County.

Wastewater Treatment Processes

Hussey Gay Bell has experience with many types of wastewater treatment. In fact, Hussey Gay Bell is already familiar with the existing WWTP and the design team has quickly provided some options for the new WWTP to meet the goals of the project.

Most wastewater treatment plants use a combination of physical and biological processes. There are many types of wastewater treatment available with each having distinct advantages and disadvantages. A few of the most common types of WWTPs are listed below. All of the treatment systems below can produce reuse-quality effluent.

1. Activated Sludge Process (ASP)

The activated sludge treatment process is the most common wastewater treatment process employed today. The treatment process generally includes the processes listed below in separate tanks:

- a. Primary screening to remove large debris and grit
- b. Biological treatment to allow microorganisms to oxidize and assimilate organic material
- c. Settling tanks to remove and recycle the microorganisms
- d. Optional filtration system to remove smaller particles and microorganisms not removed in the settling tanks
- e. Disinfection system to inactivate pathogens

Advantages of the ASP include:

- Capable of handling fluctuations in wastewater influent flow rates
- √ Capable of treating wastewater of variable contaminant concentrations
- √ Easy to operate and diagnose problems
- √ Easy to upgrade components as future flow rates increase
- √ Low capital cost
- √ Proven technology

Disadvantages of the ASP include:

- √ Requires a relatively large footprint
- √ Requires treatment and disposal of large amount of sludge
- √ Operation and maintenance cost is high

Effingham County's existing WWTP is an ASP plant. Specifically, the existing plant utilizes an oxidation ditch for the biological processes.

2. Sequencing Batch Reactor (SBR)

SBRs became common a few decades ago for small municipalities that needed to improve wastewater treatment quality while minimizing capital and operation and maintenance costs. The SBR process shares many of the treatment processes from ASP but combines the biological and settling in the same tank.

Advantages of the SBR process include:

- √ Low capital cost (lower than conventional ASP due to the reduced tankage)
- √ Small footprint
- √ Flexible treatment over a range of wastewater contaminant concentrations
- √ Proven technology

Disadvantages of the SBR process include:

- √ Low flexibility for influent flow rate variations
- Requires uninterrupted power supply
- √ Requires skilled operation and automation

3. Membrane Bioreactor (MBR)

MBRs are an emerging treatment technology that is becoming common in our area for new WWTPs. MBRs include the same processes as ASP except that the settling of the activated sludge is accomplished by filtration through a membrane. The membranes eliminate the need for settling tanks and allow the biological processes to occur at much higher biomass concentrations which are normally limited by settleability.

Advantages of MBR's include:

- √ Very high effluent quality
- √ Small footprint due to elimination of settling tanks, smaller aeration basins and effluent filters
- Easy upgrades to meet future flow rate requirements

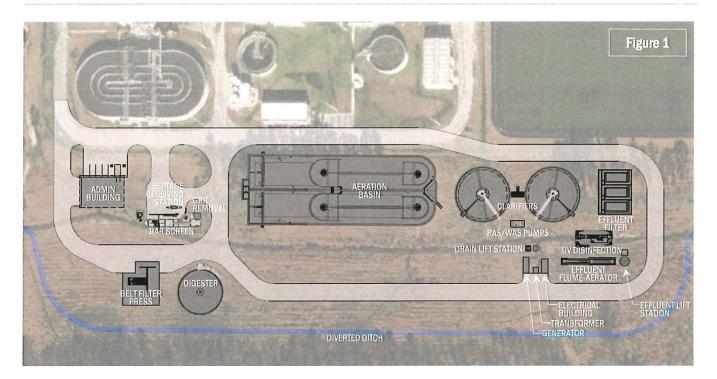
Disadvantages of MBR's include:

- √ High capital cost
- √ Requires equalization of influent flow
- √ High operation and maintenance cost
- √ Requires skilled operation and automation
- √ Constantly changing technology

Preliminary Evaluation

Hussey Gay Bell's design team has evaluated the goals of Effingham County's project and performed a preliminary evaluation to determine an appropriate WWTP technology and layout. Based on the fact that the existing WWTP is an ASP oxidation ditch WWTP, Hussey Gay Bell recommends that the new WWTP retain the ASP oxidation ditch technology. This will keep capital cost down, keep operation and maintenance similar for both WWTPs and produce similar effluent qualities. Of course, Hussey Gay Bell has designed many types of WWTPs, including SBRs and MBRs, and can accommodate the preferences of the County should the County wish to pursue an alternate treatment technology.

The Hussey Gay Bell's design team has developed a preliminary layout (see **Figure 1**), to show how the new WWTP could be arranged and fit within the County's existing property.



Design Phase Services

Hussey Gay Bell will begin the project by arranging a kickoff meeting with Effingham County's staff. The kickoff meeting will be useful to determine project goals, project schedule, project milestones and lines of communication.

1. Design Development Report

Following the kickoff meeting, the design team will immediately begin discussions with Georgia EPD to determine the design and discharge criteria for the new WWTP. From these discussions, Hussey Gay Bell, along with Effingham County's staff, will make a final determination on the treatment technology and its components. From this information, a Design Development Report summarizing relevant process and hydraulic calculations will be created and submitted to Georgia EPD for review and approval.

2. Surveying

Existing site data will by collected by topographic survey and subsurface utility engineering. Hussey Gay Bell will establish control and conduct property surveys necessary for design of the project. Geotechnical investigations will be performed at this stage of the project.

3. Preliminary Engineering (60%)

The Hussey Gay Bell design team will develop project concept drawings and documentation for the County's review and approval. The 60% design will include a site plan showing all major equipment and process components. The design team will arrange a workshop to receive the County's comments and discuss design details.

4. Final Engineering (90%)

The Hussey Gay Bell design team will develop detailed construction drawings and specifications for the County's review and approval. The design team will arrange a workshop to receive the County's comments and discuss design details.

5. Bid Documents

The Hussey Gay Bell design team will incorporate the County's 90% comments into a final Bid Document set for permitting and bidding. The design team will produce a complete set of construction plans and specifications, including all necessary plan and detail sheets, erosion and sedimentation control, site civil, mechanical, structural, instrumentation and electrical sheets. Hussey Gay Bell will prepare permitting submittals to applicable agencies for review and approval.

Bid Phase Services

Hussey Gay Bell will provide the following Bid Phase services:

- a. Pre-bid conference attendance
- b. Preparation of agenda and meeting minutes
- c. Assisting County staff in responding to Contractor questions by addendum.
- Attending bid opening, reviewing bids, preparing a bid tabulation, and providing a letter of recommendation for bid award.
- e. Assisting County staff in contract preparation.
- f. Providing conformed plans and specifications.

Construction Phase Services

Hussey Gay Bell will perform contract administration and observation services to assist the County and the Contractor during construction of the WWTP. Construction administration tasks will include:

- a. Conducting monthly project meetings.
- Reviewing and responding to contractor Requests for Information.
- c. Reviewing shop drawings.

- Interpretation and clarification of the contract documents.
- e. Processing and evaluating change orders.
- f. Processing contractor pay requests.

Construction observation tasks will include:

- a. Copies of field inspection logs.
- b. Documentation for defective work, stored materials, and materials.
- c. Interpretation and clarification of the contract documents.
- d. Contractor work plan review.
- e. Evaluation of proposed substitutes.
- Full-time construction observation during active construction activities.
- g. Erosion and sedimentation control inspections.

- h. Observation of testing.
- Review of applications for payment based on submitted data and schedules.
- j. Review of the contractor's record drawings.
- k. Review of documentation of lost time/wet weather days.
- Compilation and submission for Certificate of Substantial Completion.
- m. Compilation and submission of Final Inspection Project Punch List.

If required by local building authority, special inspections are not included in the scope of this proposal. Special inspections are third-party structural inspections that are contracted directly with the Owner outside of the design and construction contracts.

Record Drawings and Closeout Services

Following receipt of the construction contractor's "as-built" drawings, Hussey Gay Bell will prepare and submit the Record Drawings to the County. These will illustrate all significant changes made to the plans during the construction of the project.

Hussey Gay Bell will assist the County in closing out the project with the contractor, regulatory agencies and funding agencies.



D. Fee

D. Fee

We have attached the following:

- Fee Form including Fee Not To Exceed
- Anticipated Man-Hour Estimate

ATTACHMENT A

COST NOT TO EXCEED FEE PROPOSAL

surveying, concept design, preliminary design, final design, permitting, environmental, geotechnical, structural, specifications, bidding documents, construction procurement, construction contract administration, construction observation, construction inspection, and start-up assistance

CONCEPT DESIGN \$ 305,874.00	PHASE (Survey, concept and prelimina	ry design, geotechnical)
	TRUCTION COST ESTIMATES PHA 54,256.00	ASE (permitting, structural, specifications,
CONSTRUCTION Pl Inspection, and start-u	HASE (Procurement Contract Administ p assistance) \$ 752,155.00	tration, Construction Observation,
TOTAL FEE NOT TO	D EXCEED \$ 1,712,285.00	
Proposing Company Con	tact Information:	
Company Name:	Hussey, Gay, Bell & DeYoung, Inc., Consulting	ng Engineers
Billing Address:	329 Commercial Drive Suite 200 Savannah, GA 31406	Telephone: 912.354.4626
Service Address:	329 Commercial Drive Suite 200 Savannah, GA 31406	Telephone: 912.354.4626
Representative Name:	Anthony Uhrich, CPA - CFO & Vice President	t
Representative Contact Address:	329 Commercial Drive Suite 200 Savannah, GA 31406	Telephone: 912.354.4626 E-Mail: tuhrich@husseygaybell.com
vendor's acceptance of all	terms, conditions and requirements of spontract agreement between the parties.	abmission of this proposal represents the pecifications and, if awarded, the proposal sentative of the Company)
Name Printed: Anthony Uh	richTitle: CFO & Vice F	PresidentDate:5/25/2022



D. Fee

Anticipated Man-Hour Estimate

Fee Schedule	Concept [gn Phase	Design and Co Estima		Construction Phase						
Classification	Но	urly Rate	Est. Hours		Est. Price	Est. Hours		Est. Price	Est. Hours		Est. Price
Principal Engineer	\$	205.00	155	\$	31,775.00	150	\$	30,750.00	250	†	51,250.00
Professional Engineer (Testimony and Preparation)	\$	345.00		\$	-		\$	-		Ş	-
Engineer V / Associate	\$	185.00	300	\$	55,500.00	840	\$	155,400.00	520	5	96,200.00
Engineer IV	\$	170.00		\$	-		\$			5	-
Engineer III	\$	155.00		\$	-		\$	-		5	-
Engineer II	\$	150.00		\$			\$	-		5	-
Engineer I	\$	145.00	340	\$	49,300.00	1685	\$	244,325.00	2018	\$	292,610.00
Assistant Engineer	\$	130.00		\$	-		\$	-		5	
Technician III	\$	120.00	300	\$	36,000.00	940	\$	112,800.00	180	5	21,600.00
Technician II	\$	115.00		\$	-		\$	-		5	-
Technician I	\$	105.00	120	\$	12,600.00		\$	-		\$	
Landscape Architect	\$	140.00		\$	-		\$	-		\$	-
Senior Project Representative	\$	110.00		\$			\$	- 1	2200	\$	242,000.00
Project Representative	\$	95.00		\$	-		\$	-		\$	
Registered Land Surveyor III	\$	165.00	40	\$	6,600.00		\$	-		\$	· -
Registered Land Surveyor II	\$	145.00		\$	-		\$	-		\$	· -
Registered Land Surveyor I	\$	130.00		\$	Ē		\$	-		\$	-
3-Man Survey Crew	\$	175.00	300	\$	52,500.00		\$			\$; -
2-Man Survey Crew	\$	165.00		\$	-		\$			\$	· -
1-Man Survey Crew	\$	145.00		\$	-		\$	-		\$	-
Senior Administrative	\$	115.00		\$	-		\$	-		\$	-
Administrative	\$	75.00	10	\$	750.00		\$	-	103	\$	7,725.00
Sub-Disciplines											
Architectural Services				\$	7,500.00		\$	37,500.00		\$	15,500.00
Wetlands Services				\$	5,000.00		\$	12,000.00		\$	
Geotechnical Investigation				\$	22,000.00		\$	-		\$	
Electrical, Mechanical & Instrumentation	on			\$	26,349.00		\$	61,481.00		\$	25,270.00
Subtotals				\$	305,874.00		\$	654,256.00		\$	752,155.00
Total			\$					•		1	,712,285.00

Attachment A - Task Order 22-105-006



Appendix: Receipt of Addendum

Appendix: Receipt of Addendum

We acknowledge receipt of Addendum 1 as attached.

Addendum No.1 RFP 22-105-006 – WWTP Design and CM

All other terms and conditions in RFP 22-105-006 remain unchanged.

Effingham County reserves the right to reject any and all proposals, to waive any technicalities or irregularities and to award the offer based upon the most responsive, responsible submission.

Please sign receipt of this Addendum No. 1 below:

Anthony Uhrich, CPA - CFO

Print Name

5/19/2022

Date

END OF ADDENDUM NO. 1

Attachment A - Task Order 22-105-006







OFFICE LOCATIONS

329 Commercial Drive, Suite 200, Savannah, GA 31406 912.354.4626

1100 Brampton Avenue, Suite L-1, Statesboro, GA 30458 912.354.4626

2160 Satellite Boulevard, Suite 250, Duluth, GA 30097 770.476.7782

3830 East First Street, Suite 1, Blue Ridge, GA 30513 706.632.4981

474 Wando Park Boulevard, Suite 201 843.849.7500

1010 Gervais Street, Floor 3, Columbia, SC 29201 803.799.0444

4117 Hillsboro Pike, Suite 206, Nashville, TN 37215 615.460.7515

www.husseygaybell.com

