

ECS Southeast, LLC

Revised Proposal for Construction Materials Testing & Special Inspection Services

Effingham WWTP Expansion Project 655-799 Low Ground Rd Rincon, Georgia 31312

ECS Proposal Number 23.5057-CP R2 April 4, 2025



Geotechnical • Construction Materials • Environmental • Facilities

April 4, 2025

Mr. G. C. Kimbrell, E.I.T. **Hussey Gay Bell** 329 Commercial Drive Savannah, GA 31406

Reference: Revised Proposal for Construction Materials Testing & Special Inspections Services

Effingham WWTP Expansion Project

Rincon, GA

ECS Proposal No. 23.5057-CP R2

Mr. Kimbrell:

As requested, ECS Southeast, LLC (ECS) is pleased to provide a revised estimated fee proposal for providing the Construction Materials Testing and Special Inspection Services for the planned Effingham Wastewater Treatment Plant (WWTP) Expansion Project located in Rincon, GA.

Included in our revised proposal is our understanding of the project description, anticipated scope of services, unit rate fee schedule, estimated fee for services, proposal acceptance form, and ECS' terms and conditions of service. Our estimated fee for providing the construction materials testing and special inspection services will be on the order of \$288,410.00. We can also provide weekly SWPPP inspections for an additional cost of \$300 per week.

We feel certain that ECS can offer unparalleled service and value to your project as we have performed the construction materials testing and special inspection services for many similar municipal/ infrastructure projects in the surrounding area.

Thank you for the opportunity to submit this proposal to provide services and serve as your consultant. We look forward to the opportunity to work with you on this project and to hopefully serve as your consultant in the future. If you have any questions, or if we can be of any additional service, please contact us at 912.966.2527.

Respectfully submitted,

ECS SOUTHEAST, LLC

Vinay Kommagoni Staff Project Manager

Principal Engineer

PROJECT UNDERSTANDING

ECS understands that the project entails constructing an extension to the existing wastewater treatment plant in Rincon, GA. The scope includes a new Aeration Basin supported by a slab-on-grade with deep foundations, along with Clarifiers supported by a slab-on-grade and shallow foundations incorporating reinforced concrete piers. Additional structures include a Splitter Box, Effluent Filters, UV Disinfection, Post Aeration Basin, Digester, Belt Filter Press, Effluent Pump Station, Effluent Pond, RAS-WAS Pump, Effluent Disinfection, and Generator Pad, each supported by slab-on-grade and shallow foundations. Site work will also include asphalt drive lanes and associated underground utilities.

Project information was provided by the client. We have received a set of Civil and Structural drawings for the project.

ECS ADVANTAGES

In addition to the standard services that many local testing agencies provide, ECS Southeast, LLC has distinguished itself in multiple disciplines to allow us to "Set the Standard of Service" for you, our clients. Most notably:

- Resources. Our size allows us to maintain consistent staffing levels to react to your fast-paced projects. We currently have more than 80 offices and over 2,200 employees, including 6 offices in Georgia.
- **Experience**. ECS has over 30 years of experience with over 80 offices across the southeastern, southwestern, and midwestern United States.
- **Technology**. ECS is the only firm of our kind in Georgia with completely wireless field data transmission allowing us to provide reports within one to two business days of the site visit.
- Efficiency. Due to the efficiencies built into our technician scheduling system along with our
 proprietary reporting and project management software, ECS is able to offer one of the most
 attractive unit rate structures in the industry.

ELECTRONIC PAPERLESS REPORTING

ECS Southeast, LLC utilizes an advanced communications and information technology system to reduce the time from actual field reporting to the distribution of a report approved by the Project Manager and Principal Engineer. During each day of construction activities, our field technicians electronically enter test data into the ETHEL program (ECS Technician Handheld Electronic Logbook) from the project site. The test data is then transmitted from the field to the office via wireless technology. The field report is then entered into our in house database and released into FRED (Field Report Electronic Distribution).

Once in the FRED system, an electronic copy of the field report is reviewed by the Project Manager and Principal Engineer. Upon final review, approved electronic signatures and/or Professional Engineer's seal are applied to the report. The report is then emailed to those on the distribution list, and an electronic copy is archived on our servers for rapid retrieval. This system makes it possible to provide all project reports on a flash drive at the end of the project. The implementation of FRED has significantly improved efficiency in the review and approval process of reports through the office, while allowing managers to refficiently monitor progress of the project.

ECS field reports and laboratory reports are generally submitted in electronic format within 24 to 48 hours of the performance date. If deficiencies or non-compliances are noted, a running punch list of deficiency items is maintained and can be included with the reports so that problems may be resolved prior to the



performance of additional work. Copies of reports will be forwarded to each party designated by the client, at no extra charge, as part of our service.

UNIT RATE SCHEDULE

An estimated fee has been included for your budgeting purposes. All unit prices listed herein shall remain as stated throughout the project. We will invoice you for our services on a monthly basis in accordance with the attached unit rate fee schedule.

TOTAL ESTIMATED COST

To assist you in establishing a testing budget, we have prepared a general fee estimate. This estimate is based on our previous experience with similar projects as well as the proximity of the location to our office. We also offer monthly SWPPP inspections at a cost of \$300 per week. Based on the information available during the proposal phase, we estimate the cost of providing construction materials testing and special inspection services to be on the order of \$288,410.00.

Our proposed scope of services is provided below, and a detailed outline of our allocated visits and associated fees is attached. Our estimated fee provided does not constitute a lump sum or not to exceed price for our services. Site visits beyond our allocation, retests for non-compliant items, and unanticipated scopes of services may be required and will be invoiced in accordance with the attached fee schedule.

SCOPE OF SERVICES

We propose to provide qualified construction testing technicians, certified special inspection technicians, engineering interns, and registered engineers to perform the requested construction materials testing and special inspections as required by project specifications and drawings, construction activity, Chapter 17 of the International Building Code, and as specified in the Statement of Special Inspections prepared by the Structural Engineer of Record.

Earthwork

- Observe proofrolling of the site after topsoil has been stripped to verify that objectionable soils have been removed.
- Conduct laboratory Proctor tests (ASTM D-698 or ASTM D-1557) on representative subgrade soils and/or base course materials.
- Observe the placement of fill and backfill to test compliance with project requirements.
- Perform in-place density tests as required by project specifications.
- Provide recommendations for non-compliant areas noted during field observations.
- Provide documentation of events in the field and notify the appropriate persons upon recognition of deficiencies.

The following have not been included in our estimated fee; however, these services can be provided for an additional fee upon request:

- * Observation during undercut operations for non-compliant areas, removal of unsuitable materials including debris, trash, muck, problem clays or stones with a maximum dimension greater than 6 inches.
- Observation of backfill in undercut areas.



Driven Pile Foundations

- Perform to include the following:
 - Ultimate capacity of pile from Case Pile Wave Analysis Program (CAPWAP). Information resulting from analysis of a selected re-strike blow.
 - Maximum and final transferred energy, hammer system efficiency during pile installation.
 - Maximum compressive stress, velocity, acceleration and displacement.
 - o Maximum tensile stress in pile.
 - o Pile structural integrity, damage detection, extent and location.
 - o Blows per minute and blow number.
 - Input and reflection values of force and velocity, upward and downward traveling force wave with time.
 - Pile skin friction and toe resistance distribution.
 - Maximum energy transferred to pile.
- Observe pile driving operations and equipment complies with approved foundation design and installation documents.
- Document pile identification, hammer type, hammer size, pile diameter, bottom elevation, top
 elevation, plumbness, nature and location of obstructions, blows per foot of penetration, and
 any observed damage to pile.
- Submit written reports detailing our daily observations during pile driving activities.

Shallow Foundations

- Document the dimensions of foundation elements and report compliance with the project plans.
- Observe and test, as needed, materials at footing bearing level to evaluate the foundation bearing material with respect to the allowable design bearing pressure.
- Submit written reports detailing our activities and findings.

Asphalt Pavements:

- Observe proofrolling of subgrades prior to the placement of subbase course.
- Observe placement of subbase course and perform appropriate in-place density tests as directed by specifications.
- Observe placement, rolling operations and temperature of paving mixture at time of placement.
- Perform asphalt cores to document asphalt thickness and density in our laboratory. Conduct
 preliminary in-place nuclear density tests on asphalt paving to assist the pavement contractor in
 establishing an appropriate roller pattern.
- Perform specific gravity testing in accordance with GDOT standards to determine actual in place density, if required.
- Provide documentation of events in the field and notify the appropriate persons upon recognition of deficiencies.



Cast-in-Place Concrete

- Test and report concrete for compliance with the provisions of ACI, local building codes, generally accepted construction practices, and specific project requirements.
- Observe placement of reinforcing steel and document proper size, grade, spacing, cover, cleanliness, length, location and type of splices, and report compliance with project plans and specifications.
- Observe placement of concrete and document procedures with regard to forming, vibration, and curing.
- Sample concrete and perform the following tests and functions in accordance with project specifications:
 - Slump
 - Air Content (Volumetric or Pressure Pot)
 - Temperature
 - Batch-to-placement time
 - Unit Weight
 - Cast test cylinders
- Cure and test concrete cylinders in the laboratory as directed by the project specifications and in accordance with ASTM C-31 and C-39. Provide documentation of events in the field and notify the appropriate persons upon recognition of deficiencies.

The following have not been included in our estimated fee; however, these services can be provided for an additional fee upon request:

- * FYI NOTE: Cost associated with cast-in-place concrete assumes 4x8 cylinders; however, if the project requires 6 x 12 cylinders, an additional surcharge of 1.5 x the cost of 4x8 cylinders will be applied.
- * FYI NOTE: ECS is not responsible for the purchase of materials and/or the construction of an on-site 24 hour curing facility.
- * Visually observe elevated slab formwork, shoring and reshoring to document compliance with contract documents and construction practices.
- * Observe post-tensioning activities and document compliance with contract documents and project specifications; maintain a log of activities, including documentation of locations, tendon placement, and jack pressures.
- * Perform batch plant site visits in accordance with project specifications.
- * Generate necessary documents for stripping elevated slab formwork, as required by the structural engineer and local guidelines.

Structural Steel

- Perform the following observations as related to on-site structural steel erection and high strength bolting:
 - * Visual observation of bolted connections
 - * Check torque on bolted connections utilizing torque wrench
 - Check tension on bolted connections utilizing Skidmore bolt tension calibrator
- Observe welded connections in accordance with project plans and specifications.
- Observation of steel framing and frame joints for compliance with approved construction documents for bracing and stiffening elements, location of framing members and connection detail at framing location.



 Provide documentation of events in the field and notify the appropriate persons upon recognition of non-compliant items.

The following have not been included in our estimated fee; however, these services can be provided for an additional fee upon request:

- * Review certified mill test reports and notify Structural Engineer of any apparent deviations from specifications, as required.
- * Observe fabricated items for compliance with project specifications unless fabricator has been approved by design professional. We have assumed that the fabricator has been approved by the design professional and will not require fabricator shop inspections.
- * Visually observe and perform bend testing on shear studs in accordance with project specifications.

ADDITIONAL SERVICES (PROVIDED UPON REQUEST)

In addition to the proposed scope of services above, ECS can provide a full range of additional services, including but not limited to the following:

Erosion Control and Stormwater Monitoring

- Install a rain gauge for monitoring daily rain events.
- Perform observations of installed erosion control measures in accordance with NPDES permit.
- Perform required visits for qualifying rain events.
- Submit written reports within 24 hours detailing our activities and findings.

Reinforced Structural Masonry

- Observe procedures and materials to document compliance with ACI, local building codes, and contract documents.
- Cast grout prisms as required in the specifications, and test grout for compressive strength as specified in ASTM and project specifications.
- Cast mortar cylinders as required in the specifications, and test mortar for compressive strength as specified in ASTM and project specifications.
- Provide documentation of events in the field and notify the appropriate persons upon recognition of deficiencies.

Chapter 1 Inspections

- Perform observation and testing of Mechanical, Electrical, and Plumbing elements and systems per project plans and specifications and Chapter 1 of the International Building Code.
- Observe framing and building structure components such as fire resistant penetrations, building envelope, accessibility, means of egress and energy efficiency per project plans and specifications and Chapter 1 of the International Building Code.
- Provide documentation of events and tests observed in the field and notify the appropriate persons upon recognition of deficiencies.

UNDERSTANDING CONSTRUCTION MATERIALS TESTING

Construction Materials Testing (CMT) and Special Inspection services are performed to help provide the project's contractors, designers, owners, and local code officials some indication of the level of compliance obtained by the installing subcontractors with the project specifications. These services are provided at



intervals that typically are defined by the project specifications and on some occasions by the applicable building code. Test locations for most materials, i.e. soils, concrete, and fireproofing, are generally based upon random selection; as such not all materials incorporated into a construction project are tested or observed.

Obviously, the greater the testing frequency, i.e. presence of our field technicians, the greater the confidence level that the test results are representative of other untested areas; however, no amount of testing can assure 100% compliance. Testing and observation services provided by ECS do not relieve the installing subcontractors from their obligation to install all materials in accordance with the applicable project plans and specifications. ECS makes reasonable effort to test in accordance with the applicable project requirements and to identify areas or materials that may not comply with the project specifications. However, due to the random nature of our testing, we cannot guarantee that all materials have been installed in accordance with the specifications. The responsibility to correct or remediate non-complying conditions, even non-complying conditions discovered after testing or during subsequent phases of construction remains solely with the installing subcontractors.

BILLING AND CONTRACT CONDITIONS

Invoices will be issued on a monthly basis. Upon request, ECS Southeast, LLC will provide a separate invoice for services provided outside of the proposed scope of work. Invoices are normally processed on or around the 10th of each month and represent costs incurred during the previous month. A monthly cumulative summary of project costs to date can be submitted with each invoice, which may serve as a means of monitoring expenses as they relate to job progress. We request that payment be rendered within 30 days of receipt of the invoice. ECS Southeast, LLC reserves the right to assess a finance charge of 1.5% per month on the outstanding balance over 30 days. ECS Southeast, LLC also reserves the right to withhold final certifications until outstanding balances have been paid in full.

AUTHORIZATION

If the above scope of work is acceptable to you, please sign the Proposal Acceptance Form and return one copy of the proposal acceptance form to us. Please note that the attached General Conditions of Service are incorporated herein by reference and are an integral part of this agreement between us. By signing the Proposal Acceptance Form or referencing this proposal, you are also accepting the General Conditions of Service and this proposal in its entirety. Alternatively, you could issue a letter of acceptance or purchase order; but we would ask that you reference and include our proposal by reference showing proposal number and date. This proposal is valid for a period of sixty days beyond that date it may be necessary to revise our schedule or fee.

Using the Proposal Acceptance Form will provide formal authorization for us to perform the above work, enter the site, and provide proper invoicing instructions and distribution lists for reports and correspondence. Please provide any specific instructions or details not covered in this proposal on the attached Proposal Acceptance Form. Please note that we have provided a place to provide invoicing instructions and report distribution. In today's times with improved technology, and to provide you with the fastest response, we can provide the reports by e-mail. If this is acceptable, then list those to whom the reports should be sent and provide their e-mail addresses on the Proposal Acceptance Form.



Cost Estimate
2.0 MGD Effingham Wastewater Treatment Plant Expansion
Materials Testing & Special Inspection Services

2.2 Deep Foundation Observation and Testing (PSC Piles) IBC 1705.7 PDA Testing and Review - Assumes 2 days (1 day initial drive and 1 for restrike) per test pile - Assumes 1 test piles installed per day 16 \$2000 day \$32,000 \$20,000	Task	Quantity	Unit Rate	Unit	Cost	Total Cost
Technician for Field Monitoring, 00 days	2.1 Earthwork Observation & Testing IBC 1705.6 (estimate 60 te	sting days, 6	days - engineer	evaluat	tion / proofro	olling)
Project Engineer, Sire Evaluation / Consulting, 10 days						<i></i>
Grainsize Analysis, each 4 \$75 each \$300 Vehicle / Equipment Charge, per trip 70 \$30 trip \$2,100 Subtotal: \$35,20 2.2 Deep Foundation Observation and Testing (PSC Piles) [IBC 1705.7 PDA Testing and Review Assumes 2 days (1 day initial drive and 1 for restrike) per test pile Assumes 1 test piles installed per day 16 \$2000 day \$32,000 PDA Field Testing, per day 16 \$2000 day \$32,000 CAPWAP (initial drive and restrake for each pile) 80 \$250 each \$20,000 Assumes 40 test piles PDA Report 2 \$500 each \$1,000 Project Engineer (Reporting) 20 \$110 hour \$2,200 Senior Engineer / Consultant 10 \$145 hour \$1,450 Pile Monitoring (Estimate 27 days technician) Assumes 1 pile rig driving Test / Production Pile Installation (Technician), per hour 270 \$55 hour \$14,850 Vehicle / Equipment Charge, per trip 27 \$30 trip \$310 Technician, days 120 \$55 hour \$6,600 Vehicle / Equipment Charge, per trip 20 \$30 trip \$3600 Concrete Special Inspections, 80 days concrete, 80 days Inspections, plus next day pick up Technician (SOG, Foundations, Walls, Columns), 80 days 800 \$55 hour \$44,000 Concrete Special Inspections, 80 days \$320 \$590 hour \$28,800 Vehicle / Equipment Charge, per trip 240 \$30 trip \$7,20 Concrete Special Inspections, 80 days \$320 \$900 hour \$28,800 Vehicle / Equipment Charge, per trip 240 \$30 trip \$7,20 Concrete Special Inspections 6 events 24 \$30 hour \$28,800 Vehicle / Equipment Charge, per trip 240 \$30 trip \$54,000 Concrete Special Inspections 6 events 24 \$30 hour \$28,800 Vehicle / Equipment Charge, per trip 240 \$30 trip \$54,000 Concrete Special Inspections 6 events 24 \$55 hour \$48,000 Concrete Special Inspections 6 events 24 \$55 hour \$48,000 Concrete Special Inspections 6 events 24 \$55 hour \$54,000 Concrete Special I	Project Engineer, Site Evaluation / Consulting, 10 days	60		hour	\$5,700	
Vehicle / Equipment Charge, per trip	Proctor (Soil), each	4	\$175	each	\$700	
Subtotal: \$35,20	Grainsize Analysis, each	4	\$75	each	\$300	
2.2 Deep Foundation Observation and Testing (PSC Piles) IBC 1705.7 PDA Testing and Review - Assumes 2 days (1 day initial drive and 1 for restrike) per test pile - Assumes 1 test piles installed per day	Vehicle / Equipment Charge, per trip	70	\$30	trip	\$2,100	
-Assumes 2 days (1 day initial drive and 1 for restrike) per test pile -Assumes 1 test piles installed per day PDA Field Testing, per day -Assumes 40 test piles -Assumes 40 test piles PDA Report -Assumes 40 test piles PDA Report -Assumes 40 test piles PDA Report -Assumes 40 test piles -Assumes 40 test piles PDA Report -Assumes 40 test piles -Assumes 50 test piles -Assumes 60 test piles -Assumes 60 test piles -Assumes 70 test piles -Assumes 70 test piles -Assumes 70 test piles					Subtotal:	\$35,200
Assumes 1 test piles installed per day	2.2 Deep Foundation Observation and Testing (PSC Piles) IBC 1	705.7 PDA T	esting and Revi	ew		
PDA Field Testing, per day	- Assumes 2 days (1 day initail drive and 1 for restrike) per test pi	le				
CAPWAP (initial drive and restrake for each pile) 80 \$250 each \$20,000	- Assumes 1 test piles installed per day					
-Assumes 40 test piles PDA Report Project Engineer (Reporting) Senior Engineer (Reporting) Subtotal: Subtotal: \$4.65 Pile Monitoring (Estimate 27 days technician) - Assumes 400 piles installed (15 piles installed per day) - Assumes 400 piles installed (15 piles installed per day) - Assumes 1 pile rig driving Test / Production Pile Installation (Technician), per hour 270 \$555 hour Subtotal: Subtotal: \$14.850 Vehicle / Equipment Charge, per trip 27 \$30 trip Subtotal: \$15.66 2.3 Foundation Observation & Testing IBC 1705.6 (estimate 20 days) Technician, days Vehicle / Equipment Charge, per trip 20 \$30 trip Subtotal: \$7,20 \$2.4 Cast-in-Place Concrete IBC 1705.3 80 days concrete, 80 days Inspections, plus next day pick up) Technician (SOG, Foundations, Walls, Columns), 80 days Note of Equipment Charge, per trip 240 \$30 trip \$30 Technician (SOG, Foundations, Walls, Columns), 80 days Vehicle / Equipment Charge, per trip 240 \$30 trip \$30 Technician, 6 grout events Subtotal: \$32,000 Concrete Cylinders, each 1200 \$20 cach \$32,000 Technician, 6 grout events Assomy Observation and Testing IBC 1705.4 (estimate 6 inspections / 6 grout events, plus next day pick up) Technician, 6 grout events 24 \$30 Masonry Special Inspections 6 events 24 \$30 Assom trip \$310 Subtotal: \$4.2 Pavement / Miscellaneous Site Work IBC 1706.3 and 1706.6 (estimate 20 testing days FSG / GAB / Asphalt, 10 concrepours, plus next day pick-up) Technician (Asphalt), 10 days 60 \$375 hour \$4.500 \$4.500 \$4.500 \$4.500 \$4.500 \$5.500 Technician (Asphalt), 10 days 60 \$755 Hour \$4.500 \$600 \$755 Hour \$55,500 Technician (exterior concrete), 10 pours Technician (exterior concrete), 10 pours Technician (exterior concrete), 10 pours Technician (exterior conc	PDA Field Testing, per day	16	\$2000	day	\$32,000	
-Assumes 40 test piles PDA Report Project Engineer (Reporting) Senior Engineer (Reporting) Subtotal: Subtotal: \$4.65 Pile Monitoring (Estimate 27 days technician) - Assumes 400 piles installed (15 piles installed per day) - Assumes 400 piles installed (15 piles installed per day) - Assumes 1 pile rig driving Test / Production Pile Installation (Technician), per hour 270 \$555 hour Subtotal: Subtotal: \$14.850 Vehicle / Equipment Charge, per trip 27 \$30 trip Subtotal: \$15.66 2.3 Foundation Observation & Testing IBC 1705.6 (estimate 20 days) Technician, days Vehicle / Equipment Charge, per trip 20 \$30 trip Subtotal: \$7,20 \$2.4 Cast-in-Place Concrete IBC 1705.3 80 days concrete, 80 days Inspections, plus next day pick up) Technician (SOG, Foundations, Walls, Columns), 80 days Note of Equipment Charge, per trip 240 \$30 trip \$30 Technician (SOG, Foundations, Walls, Columns), 80 days Vehicle / Equipment Charge, per trip 240 \$30 trip \$30 Technician, 6 grout events Subtotal: \$32,000 Concrete Cylinders, each 1200 \$20 cach \$32,000 Technician, 6 grout events Assomy Observation and Testing IBC 1705.4 (estimate 6 inspections / 6 grout events, plus next day pick up) Technician, 6 grout events 24 \$30 Masonry Special Inspections 6 events 24 \$30 Assom trip \$310 Subtotal: \$4.2 Pavement / Miscellaneous Site Work IBC 1706.3 and 1706.6 (estimate 20 testing days FSG / GAB / Asphalt, 10 concrepours, plus next day pick-up) Technician (Asphalt), 10 days 60 \$375 hour \$4.500 \$4.500 \$4.500 \$4.500 \$4.500 \$5.500 Technician (Asphalt), 10 days 60 \$755 Hour \$4.500 \$600 \$755 Hour \$55,500 Technician (exterior concrete), 10 pours Technician (exterior concrete), 10 pours Technician (exterior concrete), 10 pours Technician (exterior conc	CAPWAP (initial drive and restrake for each pile)	80	\$250	each	\$20,000	
Assumes 40 test piles			•		Subtotal:	\$52,000
PDA Report	- Assumes 40 test piles					,
Project Engineer (Reporting)		2	\$ 500	each	\$1,000	
Senior Engineer / Consultant 10 \$145 hour \$1,450		20	\$ 110	hour		
Pile Monitoring (Estimate 27 days technician)		10	\$ 145		\$1,450	
Pile Monitoring (Estimate 27 days technician) - Assumes 400 piles installed (15 piles installed per day) - Assumes 1 pile rig driving		•				\$4,650
Assumes 1 pile rig driving	Pile Monitoring (Estimate 27 days technician)					
Assumes 1 pile rig driving						
Test / Production Pile Installation (Technician), per hour	1 1 1					
Vehicle / Equipment Charge, per trip 27		270	\$ 55	hour	\$14,850	
Subtotal: \$15,66						
2.3 Foundation Observation & Testing IBC 1705.6 (estimate 20 days) Technician, days			•		Subtotal:	\$15,660
Technician, days	2.3 Foundation Observation & Testing IBC 1705.6 (estimate 20 d	ays)				7 - /
Vehicle / Equipment Charge, per trip 20			\$55	hour	\$6,600	
Subtotal: \$7,20						
2.4 Cast-in-Place Concrete IBC 1705.3 80 days concrete, 80 days Inspections, plus next day pick up		•			Subtotal:	\$7,200
Technician (SOG, Foundations, Walls, Columns), 80 days 800 \$55 hour \$44,000	2.4 Cast-in-Place Concrete IBC 1705.3 80 days concrete, 80 days	s Inspections	, plus next day	pick up		. ,
Concrete Special Inspections, 80 days 320 \$90 hour \$28,800 Vehicle / Equipment Charge, per trip 240 \$30 trip \$7,200 Concrete Cylinders, each 1200 \$20 each \$24,000 Subtoal: \$104,4 2.5 Masonry Observation and Testing IBC 1705.4 (estimate 6 inspections / 6 grout events, plus next day pick up) Technician, 6 grout events 24 \$55 hour \$1,320 Masonry Special Inspections 6 events 24 \$90 hour \$2,160 Grout Prisms, each 24 \$20 each \$480 Vehicle / Equipment Charge, per trip 18 \$30 trip \$540 2.6 Pavement / Miscellaneous Site Work IBC 1706.3 and 1706.6 (estimate 20 testing days FSG / GAB / Asphalt, 10 concrepours, plus next day pick-up) Technician (Soil FSG, GAB), 20 days 160 \$55 hour \$8,800 Technician (Asphalt), 10 days 60 \$75 hour \$4,500 GAB Proctor, each 1 \$225 each \$225 GAB Grainsize Analysis, each 1 \$75 each \$75 Technician (exterior concrete), 10 pours 100 \$55 hour \$5,500 Concrete Cylinders, each 150 \$20 each \$3,000 Vehicle/Equipment Charge, per trip 30 \$30 trip \$900						
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Concrete Cylinders, each 1200 \$20 each \$24,000						
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Masonry Special Inspections 6 events 24 \$90 hour \$2,160 Grout Prisms, each 24 \$20 each \$480 Vehicle / Equipment Charge, per trip 18 \$30 trip \$540 Subtotal: \$4,5 2.6 Pavement / Miscellaneous Site Work IBC 1706.3 and 1706.6 (estimate 20 testing days FSG / GAB / Asphalt, 10 concrepours, plus next day pick-up) Technician (Soil FSG, GAB), 20 days 160 \$55 hour \$8,800 Technician (Asphalt), 10 days 60 \$75 hour \$4,500 GAB Proctor, each 1 \$225 each \$225 GAB Grainsize Analysis, each 1 \$75 each \$75 Technician (exterior concrete), 10 pours 100 \$55 hour \$5,500 Concrete Cylinders, each 150 \$20 each \$3,000 Vehicle/Equipment Charge, per trip 30 \$30 trip \$900						
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Vehicle / Equipment Charge, per trip 18 \$30 trip \$540 Subtotal: \$4,5 2.6 Pavement / Miscellaneous Site Work IBC 1706.3 and 1706.6 (estimate 20 testing days FSG / GAB / Asphalt, 10 concrepours, plus next day pick-up) Technician (Soil FSG, GAB), 20 days 160 \$55 hour \$8,800 Technician (Asphalt), 10 days 60 \$75 hour \$4,500 GAB Proctor, each 1 \$225 each \$225 GAB Grainsize Analysis, each 1 \$75 each \$75 Technician (exterior concrete), 10 pours 100 \$55 hour \$5,500 Concrete Cylinders, each 150 \$20 each \$3,000 Vehicle/Equipment Charge, per trip 30 \$30 trip \$900						
Subtotal: \$4,5		18		trip	\$540	
2.6 Pavement / Miscellaneous Site Work IBC 1706.3 and 1706.6 (estimate 20 testing days FSG / GAB / Asphalt, 10 concrete pours, plus next day pick-up)Technician (Soil FSG, GAB), 20 days160\$55hour\$8,800Technician (Asphalt), 10 days60\$75hour\$4,500GAB Proctor, each1\$225each\$225GAB Grainsize Analysis, each1\$75each\$75Technician (exterior concrete), 10 pours100\$55hour\$5,500Concrete Cylinders, each150\$20each\$3,000Vehicle/Equipment Charge, per trip30\$30trip\$900			•		Subtotal:	\$4,500
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Technician (Asphalt), 10 days 60 \$75 hour \$4,500 GAB Proctor, each 1 \$225 each \$225 GAB Grainsize Analysis, each 1 \$75 each \$75 Technician (exterior concrete), 10 pours 100 \$55 hour \$5,500 Concrete Cylinders, each 150 \$20 each \$3,000 Vehicle/Equipment Charge, per trip 30 \$30 trip \$900		160	\$55	hour	\$8,800	
GAB Proctor, each 1 \$225 each \$225 GAB Grainsize Analysis, each 1 \$75 each \$75 Technician (exterior concrete), 10 pours 100 \$55 hour \$5,500 Concrete Cylinders, each 150 \$20 each \$3,000 Vehicle/Equipment Charge, per trip 30 \$30 trip \$900						
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Vehicle/Equipment Charge, per trip 30 \$30 trip \$900						
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Subtotal: \$23.0			7		Subtotal:	\$23,000

2.7 Structural Steel Special Inspections IBC 1705.1-1705.2 (estimate 15 visual inspections)					
Structural Steel Inspector, 15 inspections	15	\$920	day	\$13,800	
Vehicle/Equipment Charge, per trip	15	\$30	trip	\$450	
	-			Subtotal:	\$14,250
2.8 Specialty Inspections Wind / Seismic IBC 1705.11 (estimate 1	15 inspections	s)			
Field Engineer, days	80	\$115	hour	\$9,200	
Vehicle / Equipment Charge, per trip	15	\$30	trip	\$450	
				Subtotal:	\$9,650
2.9 Consulting / Reporting / Supervision - Scheduling					
Project Manager	120	\$110	hour	\$13,200	
Senior Consultant	20	\$155	hour	\$3,100	
Clerical	50	\$40	hour	\$2,000	
	•	-		Subtotal:	\$18,300
			•		
		Tota	l Estin	nated Cost:	\$288,410

Task	Quantity	Unit Rate	Unit	Cost	Total Cost
NPDES / SWPPP Services (16 months - weekly, post-storm, and storm water sampling)					
Weekly SWPPP Inspection	64	\$300	each	\$19,200	
Post Storm Inspection (estimate 16 for life of project)	16	\$300	each	\$4,800	
Storm Water Sampling (2 required by GA Law)	4	\$55	hour	\$220	
				Subtotal:	\$24,220

NPDES Total Estimated Cost: \$24,220

Unit Rate Fee Schedule Construction Materials Testing and Special Inspection Services

Soil or Materials Field or Lab Technician

CMT Technician\$	55.00/hour			
Senior CMT Technician\$	75.00/hour			
Specialty CMT Technician\$	90.00/hour			
Structural/Metals Inspection Technician (AWS Certified Welding Inspector)\$				
GDOT Certified Technician\$	95.00/hour			
Chapter 1 Inspection Services\$	105.00/hour			
Note: Overtime Standard Rate is 1.50 for services performed on Saturday, Sunday, before 6:00 AM or after 6:00 PM or exceeding 8 hours				

per day Monday thru Friday. Overtime Standard Rate is 2.0 for services performed on holidays.

Expenses

Trip Charge/Equipment Fee\$	30.00/visit
Vibration Monitor (each)\$	
Pre-Condition Survey/Report\$	
Concrete/Asphalt Coring Equipment\$	
Floor Flatness Equipment (Dip Stick)\$	150.00/day
Rental Equipment, Sub-Contract Services & Non-standard Supplies	
Note: The above charges will be made for tests & equipment operated by ECS personnel in addition to personnel charge	ges already listed.

Laboratory Testing

Standard/Modified Proctor A or B (ASTM D-698 or ASTM D-1557))\$	175.00/each		
Standard/Modified Proctor C (ASTM D-698 or ASTM D-1557)\$	225.00/each		
Moisture Content (ASTM D-2216)\$	10.00/each		
Atterberg Limits (ASTM D-4318)\$	75.00/each		
Grain Size, percent passing #200 (ASTM D-1140)\$	75.00/each		
Grain Size, up to seven sieves (ASTM D-422)\$	75.00/each		
Direct Shear, three stress points (ASTM D-3080)\$	750.00/each		
Testing of Cylinders, Cubes, and Core Specimens:			
Compressive Strength of Concrete Cylinders (ASTM C-39)\$	20.00/each		
Compressive Strength of Mortar Cubes (ASTM C-109)\$	20.00/each		
Compressive Strength of Masonry Grout (ASTM, C-1019)\$	20.00/each		
Concrete Core Samples (ASTM, C-42) and Beams, (ASTM C-78)\$	75.00/each		
Compressive Strength of Masonry Block Prisms, (ASTM C-1314)\$	125.00/each		
Asphalt, Bulk Specific Gravity (AASHTO T-166)\$	75.00/each		
Asphalt Content/Aggregate Gradation (AASHTO T-308, T-30)\$	250.00/each		
Note: Test fee includes normal laboratory technician time, sample preparation, equipment and supplies required for each test			

Project Management

Field Report Review\$	80.00/report
Break Report Review (Concrete, Mortar, Grout, etc.)	40.00/report
Project Engineer/Manager\$	110.00/hour
Senior Engineer/Manager\$	
Senior Geotechnical Engineer\$	155.00/hour
Principal Engineer/Manager\$	155.00/hour

Note: Charges for engineering and technical personnel will be made for time spent in the field, in engineering analysis, in preparation and review of reports, and in portal to portal travel to the job site at .25 hr. increments. There will be a four (4) hour minimum charge for field related services for work completed Monday through Friday. Minimum charge for Saturday work is 4 hour increments and 8 hours increments for Sunday work and overnight work. Field labor rates are charged portal to portal from the nearest ECS office location to the project. Our base unit rates are based on a normal 8-hour workday, Monday through Friday. Overtime beyond 8 hours/day, and on Saturday or Sunday will be invoiced at a rate of 1.5 times the normal hourly rate indicated above. Holidays will be invoiced at a rate of 2.0 times the normal hourly rate indicated above. Scheduling should occur prior to 3:00pm on the day before services are required and prior to 3:00pm on Thursday prior to any Saturday or Sunday services.

PROPOSAL ACCEPTANCE FORM ECS SOUTHEAST, LLC

Project Name: Effingham WWTP Expansion Project

Location: Rincon, GA

Name of Client:

Please complete and return this Proposal Acceptance Form to ECS as shown at the bottom of this form. By signing and returning this form, you are providing us with authorization to proceed, providing us permission to enter the site, and making this proposal the agreement between us. Your signature also indicates that you have read this document and the general conditions of service in its entirety and agree to pay for these services.

CLIENT AND BILLING INFORMATION

(Please Print or Type)

Contact Person:			
Telephone No.			
E-mail:			
	Responsible for Payment	Approval of	Invoice (if different)
Contact Name:			
Company Name:			
Address			
Address			
City, State, Zip			
Telephone No.:			
Fax No:			
E-mail Address:			
-	rmally e-mailed directly to client. If resses and fax numbers below.	you require copies to othe	rs, please provide their
Name	e-mail Address	Phone Number	Fax Number
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Special Instructions:			
Special Instructions:			

