

## **TASK WORK ORDER NO. 17**

(Supplemental to the ENGINEER's Basic Agreement dated **May 1, 2019**)

This TASK WORK ORDER, which is incidental and subordinate to the Contract for Professional Services Agreement executed on **May 1, 2019**, is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, **2022**, by and between the Mayor and Alderman of the City of Savannah and the **SAVANNAH AIRPORT COMMISSION**, operator of the Savannah/Hilton Head International Airport located in Savannah, a municipal corporation of the State of Georgia, hereinafter called the **COMMISSION**, and **AECOM TECHNICAL SERVICES, INC. (AECOM)**, a California corporation authorized to do business in the State of Georgia, with offices located in Tampa, Florida, hereinafter called the **ENGINEER**. In the event of any inconsistency between this Task Work Order and the terms of the Contract for Professional Services Agreement stated above, the Contract for Professional Services Agreement shall take precedence.

**WITNESSETH:**

### Article I

#### **The Project**

The **COMMISSION** hereby retains the **ENGINEER** to furnish preliminary and final design engineering services required to develop the necessary plans and documents required for the awarding of contract for the construction of the following:

##### **1. Extend Taxiway G**

The above described improvement is hereinafter called the **PROJECT**. Additional information is included in attached Exhibit A Scope of Services.

### Article II

#### **Services by Engineer**

The engineering services that the **ENGINEER** shall furnish to the **COMMISSION** under this Supplemental Agreement shall include:

##### **A. General Services**

1. Serve as the **COMMISSION's** professional representative in all phases of the **PROJECT**, and will give consultation and advice to the **COMMISSION** during the performance of his services.

2. Keep the **COMMISSION** periodically advised during the preliminary design phase as to the estimated cost and schedule of the **PROJECT**.
3. The **ENGINEER** will not be responsible for defects or deficiencies in the construction or the Contractor's performance; however, he shall write into the construction contract documents sufficient guarantees, supported by a performance bond, to protect the **COMMISSION** against any defects or deficiencies in either labor or workmanship for a period of one year after completion of construction, and further shall include a clause calling for liquidated damages to protect the **COMMISSION** due to the Contractor's failure to complete the work in the time specified.

## **B. Basic Services**

### **1. Preliminary Phase**

- 1.1 Confer with and provide general consultation and advice to the **COMMISSION** with respect to project requirements, finances, schedules and other pertinent preliminary design requirements of the **PROJECT**
- 1.2 Collect engineering data and undertake field investigation not included in the Preliminary Phase. Survey and geotechnical services will be performed by subconsultants Neil Engineering, Inc. and Cal-Tech Testing Inc..
- 1.3 Develop design schematics, sketches, environmental and aesthetic considerations, project recommendations, preliminary layouts, and preliminary cost estimates. These will be submitted to the **COMMISSION** for approval and definition of the design phase.

### **2. Design Phase**

Upon approval of the Preliminary Phase, the **ENGINEER** shall:

- 2.1 Provide general consultation and advice to the **COMMISSION** with respect to the final design of the **PROJECT**, including meetings and design conferences to obtain information and to coordinate or resolve final design matters.
- 2.2 Prepare plans, specifications, contract documents, and detailed construction cost estimates for award of a construction contract(s) as coordinated with, reviewed by and approved by the **COMMISSION**.
- 2.3 Prepare an engineering report as required by the **COMMISSION** to describe and justify the proposed design of the **PROJECT**.

- 2.4 Furnish the **COMMISSION** with one set of reproducible drawings and five (5) sets of the final plans, specifications and contract documents for agency coordination and suitable for advertising for construction bids.
- 2.5 Prepare and submit on behalf of the **COMMISSION** a Construction Safety and Phasing Plan and FAA Form 7460-1 Notice of Proposed Construction.

**3. Construction Phase (Future Services)**

- 3.1 Assist the **COMMISSION** in obtaining proposals from construction contractors for the construction of the **PROJECT**, attend pre-bid conference, review technical qualifications of bidders, review and tabulate all proposals received by the **COMMISSION**, and make recommendations to the **COMMISSION** for the award of construction contracts subject to the **COMMISSION**'s investigation of the bidder's financial qualifications and to the concurrence of the **COMMISSION**'s legal counsel.
- 3.2 Assist the **COMMISSION** in the Preconstruction Conference.
- 3.3 Provide general consultation and advice to the **COMMISSION** with respect to the construction of the **PROJECT**.
- 3.4 Assist the **COMMISSION** in estimating cash flow projections of **PROJECT** expenditures.
- 3.5 Perform periodic inspections of the **PROJECT** while construction is in progress to review and monitor the progress, workmanship and quality of materials for conformity with the plans, specifications and construction schedule and provide appropriate reports to the **COMMISSION**.
- 3.6 Review and approve, for compliance with the design concept of the **PROJECT** and compliance with the information given in the construction contract documents, all detailed construction, shop and erection drawings and materials certification submitted by the Contractor(s).
- 3.7 Review reports of field testing activities performed by the **COMMISSION** or others.
- 3.8 Perform final inspections with representatives of the **COMMISSION** and appropriate governmental agencies of the completed **PROJECT** and prepare certificates of substantial completion and affidavits of compliance for the **COMMISSION**.
- 3.9 Prepare record drawings in reproducible form based upon information provided by the Contractor(s) of those facilities for which design plans were prepared by the **ENGINEER**.

### C. Additional Services

If authorized in writing by the **COMMISSION** or the Executive Director of **COMMISSION**, the **ENGINEER** will furnish or obtain from specialty consultants, the following additional services in connection with the **PROJECT**.

1. Make major revisions to completed or partially completed design plans and specifications to incorporate changes made to the scope of work after approval of the preliminary plans by reviewing agencies provided that these revisions are not attributable to any errors or omissions of the **ENGINEER**.
2. Prepare routine change orders or routine supplemental agreements as may become necessary during construction of the work.
3. Prepare construction contract change orders or supplemental agreements involving major changes or revisions of the completed construction plans, and specifications which are not attributable to any error or omission on the part of the **ENGINEER**.
4. Review and recommend for approval, monthly and final progress payments to contractors, change orders, supplemental agreements, and time extensions and assist the **COMMISSION** in preparing pertinent governmental agency standard forms.
5. Update the current Airport Layout Plan to reflect the completed construction under this **PROJECT**.
6. Prepare to serve or serve as a consultant, witness or representative for the **COMMISSION** in any public hearing, public information meeting or other administrative proceeding involving the **PROJECT**. Such consultation and representation in connection with litigation or other legal proceeding involving the **PROJECT** shall be covered under subsequent Supplemental Agreement.
7. Assist the **COMMISSION** in performing any inspection of facilities constructed under this Agreement after final acceptance of the work but prior to the expiration of any contractor's warranty periods imposed in construction contract documents.
8. Furnish additional copies of final plans, specifications and contract documents beyond the five (5) called for in Article II.B. 2.4 for use in advertising for construction bids or other review purposes.
9. Perform services involving the preparation of rate schedules, earnings and expense statements, feasibility studies, appraisals, evaluations or other similar detailed analysis that are not normally required in the scope of the **PROJECT**.
10. Prepare drawings from field measurements of existing construction when required for planning additions or alterations thereto where they are not included in the original scope of the **PROJECT**.

11. Perform additional or extended services during construction made necessary by (1) work damaged by fire or other cause during construction, (2) prolongation of the construction contract time due to causes beyond the control of the **ENGINEER**, (3) acceleration of the work schedule involving service beyond normal working hours, (4) special investigations due to construction compliance problems, and (5) contract default due to delinquency or insolvency of the contractor(s).
12. Verify "as-built" information provided by the construction contractors if full-time inspection is not provided by the **ENGINEER**.
13. Perform services as may be specified in a Trust Agreement or Bond Resolution in connection with the **PROJECT**.
14. Prepare plans and other necessary documents for the acquisition of land, rights-of-way and easements required for the **PROJECT** and administer the acquisition program on behalf of the **COMMISSION** using retained appraisers, title searchers, negotiators and legal counsel.
15. Perform other than routine services when required by FAA audit subsequent to the completion of the **PROJECT**.
16. Perform testing of soils or field surveys as may be necessary for the proper design and construction of the project.
17. Additional services not otherwise provided for by this Supplemental Agreement.

### Article III

#### **COMMISSION's Responsibilities**

The **COMMISSION's** responsibilities shall include the following:

1. Coordinate the **COMMISSION's** requirements for the **PROJECT** with the **ENGINEER**.
2. Provide copies of pertinent documents, reports, plans, specifications, photography, standard forms, and other similar data available to the **COMMISSION** that are required by the **ENGINEER** for the proper performance of his services.
3. Provide information and make decisions as may be required by the **ENGINEER** to prosecute the work in a timely manner.
4. Perform, or authorize the **ENGINEER** to arrange to have specialty consultants perform, all necessary test borings, subsurface investigations, testing of soil samples,

construction quality control testing, and engineering surveys as may be required by the **ENGINEER** for the proper performance of his services.

5. Reimburse the **ENGINEER** for the actual cost of legal advertisements and of printing contract plans, specifications, and contract documents required for the securing of bids for the **PROJECT** and for the use by contractors, subcontractors, testing laboratories, and others having need for such documents, less any amount paid to the **ENGINEER** by prospective bidders or other plan purchasers, for copies of these documents. The above shall not preclude the **COMMISSION** from causing such advertising or printing to be performed directly by the **COMMISSION** or other agencies.
6. Advertise for and accept proposals from bidders, review the **ENGINEER's** recommendations on the technical qualifications of the bidders and investigate the bidder's financial and legal qualifications.
7. Review insurance documents submitted by Contractor(s) for conformance with the construction contract documents.

#### Article IV

#### Compensation and Payments to the **ENGINEER**

##### A. Payment for Basic Services

1. For Services furnished under Article II. A and B and Exhibit A, Scope of Services, the **COMMISSION** will pay the **ENGINEER** as per attached fee schedule with the total lump sum amount of **\$512,915.00.**

Compensation for these services shall be billed by the **ENGINEER** and paid by the **COMMISSION** not more than once per month in progress payments in proportion to services performed.

In the event that all, or part of the **PROJECT**, is not completed by the **COMMISSION**, or if conditions of the **PROJECT** change during the performance of Basic Services, the appropriate compensation set forth above shall be renegotiated by a mutually agreed upon method.

##### B. Payment for Additional Services

For Additional Services furnished under Article II. C, the **COMMISSION** will pay the **ENGINEER** an amount to be mutually agreed upon at the time the services are furnished.

C. Payment Procedure

1. The **ENGINEER** shall submit monthly invoices for work performed as described in Article IV. A., payable within thirty (30) days. The amount invoiced will be based on the progress of services performed.
2. The **ENGINEER** will submit invoices for work performed by specialty consultants, as described in Article IV. A., when billed by the specialty consultant and shall attach copies to all statements as approved by the **ENGINEER**, payable within thirty (30) days.
3. The **ENGINEER** will maintain adequate records in accordance with generally recognized accounting practices which shall be available to the **COMMISSION** and the FAA for audit at the **ENGINEER's** office.

Article V

Except as set forth above all provisions and covenants of the **ENGINEER's** Basic Agreement, dated May 1, 2019, shall remain in full force and effect the same as incorporated herein by reference.

IN WITNESS WHEREOF, the Parties hereto have caused these presents to be executed, the day and year first above written.

ATTEST:

SAVANNAH AIRPORT COMMISSION

By: \_\_\_\_\_  
Executive Director

\_\_\_\_\_  
Chairman

ATTEST:

AECOM TECHNICAL SERVICES, INC.

By: Diane White

Steven G. Henriquez  
(Steven G. Henriquez, P.E., Vice President)

**EXHIBIT A**  
**SCOPE OF SERVICES**

**SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT**  
**EXTEND TAXIWAY G**

**Qualification Statement:** The fee proposal for this project is developed based on the following scope assumptions. Should the **SAVANNAH AIRPORT COMMISSION** find the scope assumptions unacceptable or require modifications which increase or decrease the level of engineering services estimated to prepare documents, the fee will be negotiated to the mutual benefit of both parties.

Services under contract includes preliminary and design phase services, the extension of Taxiway G in the north quadrant, including the taxiway bridge over Gulfstream Blvd.. A sketch is attached. The project includes:

1. Site survey and site geotechnical investigation (see attached proposals from Neil Engineering, Inc. and Cal-Tech Testing, Inc.).
2. Civil design for extension of Taxiway G tying into existing Taxiway H. The taxiway will be designed to ADG IV requirements with concrete pavement and asphalt shoulders.
3. Drainage design will include cross drains of various sizes including double 8' x 6' box culvert and large pipes. It is anticipated that the triple 66" cross-drain under Daniel Coe Drive will require modifications due to the tight proximity to the taxiway. Relocation is not practical due to all the utilities and fiber optic cables in the shoulders of the roadway.
4. The taxiway overpass bridge will be designed to match that on Taxiway A. Bridge foundations were previously constructed in the North Aviation Development project completed in 2013.
5. The airfield edge lighting circuit for Taxiway G will be extended. Electrical vault work is not anticipated in this project
6. Utilities will be protected or relocated if required by the taxiway design.
7. Water management, environmental and land disturbance permitting have not been incorporated within this proposal. If required, permitting shall be considered additional services.
8. Contract drawings will be prepared on standard 22" x 34" sheet size. The number of estimated drawings is included in the manhour and fee estimate. Also included are drawings which must be modified for this project.



9. FAA Standard Technical Specifications will be used. They will be supplemented as necessary for building design work.

Schedule:

A mutually agreeable project schedule will be developed at the project pre-design conference.



**SUMMARY OF ENGINEERING FEES  
EXTEND TAXIWAY G  
SAVANNAH/HILTON HEAD INTERNATIONAL AIRPORT**

**AECOM:**

Design Phase (Civil)	\$178,505.00	Lump Sum
Design Phase (Structural)	\$295,360.00	Lump Sum
Expenses	\$9,620.00	Lump Sum
Caltech Testing (DBE)	\$4,930.00	Lump Sum
Neil Engineering, Inc. (DBE)		
Survey	\$21,500.00	Lump Sum
Utility Locates	\$3,000.00	Lump Sum
<b>TOTAL</b>	<b>\$512,915.00</b>	<b>Lump Sum</b>

**AECOM**  
**PRELIMINARY DESIGN SERVICES**

LOCATION: Savannah/Hilton Head International Airport  
PROJECT: Extend Taxiway G

DATE: 08/18/22  
PREPARED BY: SGH/dk

CONTRACT:

EMPLOYEE CLASSIFICATION	Project Manager	Senior Engineer/Planner	Sr. Designer / Engineer	CADD Technician	Clerical	TOTAL	TOTAL					
	Rate: \$295.00	Rate: \$180.00	Rate: \$160.00	Rate: \$130.00	Rate: \$80.00	Hours	Fee					
TASK DESCRIPTION	Hours	Amount	Hours	Amount	Hours	Amount						
<u>DESIGN PHASE</u>												
General Consult / Proj. Mgmt / Client Meetings	8	\$2,360	8	\$1,440	4	\$640	0	\$0	4	\$320	24	\$4,760
	2	\$590	0	\$0	0	\$0	0	\$0	6	\$480	8	\$1,070
	4	\$1,180	8	\$1,440	0	\$0	0	\$0	0	\$0	12	\$2,620
	6	\$1,770	8	\$1,440	40	\$6,400	4	\$520	4	\$320	62	\$10,450
Final Plans	87	\$25,665	135	\$24,300	370	\$59,200	231	\$30,030	0	\$0	823	\$139,195
Final Specifications	12	\$3,540	16	\$2,880	8	\$1,280	0	\$0	24	\$1,920	60	\$9,620
Engineer's Estimate	4	\$1,180	4	\$720	10	\$1,600	8	\$1,040	2	\$160	28	\$4,700
Engineer's Report	4	\$1,180	0	\$0	6	\$960	0	\$0	6	\$480	16	\$2,620
Quality Control / Coordination Review	2	\$590	16	\$2,880	0	\$0	0	\$0	0	\$0	18	\$3,470
TOTAL	129	\$38,055	195	\$35,100	438	\$70,080	243	\$31,590	46	\$3,680	1051	\$178,505

T/W "G" OVER GULFSTREAM ROAD STRUCTURE	Project Engineer		Senior Engineer		Junior Engineer		CAD Operator		Totals	
	Hr Rate	\$195.00	Hr Rate	\$165.00	Hr Rate	\$135.00	Hr Rate	\$145.00		
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost
<b>Project Startup</b>										
Review Project Materials	24	\$4,680	0	\$0	0	\$0	0	\$0	24	\$4,680
AECOM Structures Task Set-up	16	\$3,120	0	\$0	0	\$0	0	\$0	16	\$3,120
Prepare Data Requests	8	\$1,560	0	\$0	0	\$0	0	\$0	8	\$1,560
Kickoff Meeting	8	\$1,560	0	\$0	0	\$0	0	\$0	8	\$1,560
<b>Project Startup Subtotals</b>	<b>56</b>	<b>\$10,920</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>56</b>	<b>\$10,920</b>
<b>Final Design</b>										
<i>Meetings</i>										
Coordination Meetings Preparation	16	\$3,120	0	\$0	0	\$0	0	\$0	16	\$3,120
Coordination Meetings Participation	16	\$3,120	0	\$0	0	\$0	0	\$0	16	\$3,120
Final Design Review Meeting	8	\$1,560	0	\$0	0	\$0	0	\$0	8	\$1,560
<i>Taxiway Tunnel/Bridge Design</i>										
Design Criteria	8	\$1,560	16	\$2,640	16	\$2,160	0	\$0	40	\$6,360
Bridge Geometrics	12	\$2,340	16	\$2,640	16	\$2,160	0	\$0	44	\$7,140
Superstructure Finite Element Analysis	40	\$7,800	80	\$13,200	60	\$8,100	0	\$0	180	\$29,100
Deck Design and Detailing	16	\$3,120	80	\$13,200	80	\$10,800	0	\$0	176	\$27,120
Prestressed Concrete Beam Design	24	\$4,680	96	\$15,840	96	\$12,960	0	\$0	216	\$33,480
Transverse Post Tensioning Design	20	\$3,900	80	\$13,200	60	\$8,100	0	\$0	160	\$25,200
Approach Slab Design	4	\$780	16	\$2,640	24	\$3,240	0	\$0	44	\$6,660
<i>Final Design Drawings*</i>										
Title Sheet and Index of Drawings	0	\$0	0	\$0	4	\$540	4	\$580	8	\$1,120
General Notes	0	\$0	2	\$330	2	\$270	4	\$580	8	\$1,180
Standard Drawings (4 sheets)	0	\$0	0	\$0	2	\$270	4	\$580	8	\$850
Plan and Profile	2	\$390	4	\$660	4	\$540	16	\$2,320	26	\$3,910
Construction Phasing Schematic	8	\$1,560	12	\$1,980	8	\$1,080	12	\$1,740	40	\$6,360
<i>Taxiway Tunnel/Bridge Drawings</i>										
Plan and Typical Section	0	\$0	4	\$660	4	\$540	8	\$1,160	16	\$2,360
Abutment As Built Plan and Elevation	2	\$390	8	\$1,320	12	\$1,620	24	\$3,480	46	\$6,810
Abutment Tie in Details	2	\$390	4	\$660	8	\$1,080	16	\$2,320	30	\$4,450
Finish Grade Elevations	0	\$0	4	\$660	8	\$1,080	12	\$1,740	24	\$3,480
Superstructure Plan	2	\$390	6	\$990	8	\$1,080	16	\$2,320	32	\$4,780
Superstructure Sections	2	\$390	6	\$990	8	\$1,080	16	\$2,320	32	\$4,780
Superstructure Details	2	\$390	4	\$660	8	\$1,080	16	\$2,320	30	\$4,450
Post-Tensioning Plan and Details	4	\$780	12	\$1,980	0	\$0	32	\$4,640	48	\$7,400
Framing Plan	2	\$390	4	\$660	4	\$540	16	\$2,320	26	\$3,910
Beam Elevation	2	\$390	8	\$1,320	12	\$1,620	12	\$1,740	34	\$5,070
Beam Details	2	\$390	8	\$1,320	12	\$1,620	20	\$2,900	42	\$6,230
Bearing Details	2	\$390	8	\$1,320	8	\$1,080	12	\$1,740	30	\$4,530
Approach Slabs	2	\$390	4	\$660	12	\$1,620	16	\$2,320	34	\$4,990
Wall Tie Ins	4	\$780	0	\$0	12	\$1,620	16	\$2,320	32	\$4,720
Earthwork - Backfill and Compaction Notes and Details	4	\$780	4	\$660	2	\$270	8	\$1,160	18	\$2,870
Reinforcing Bar List	0	\$0	16	\$2,640	40	\$5,400	10	\$1,450	66	\$9,490
Box Culvert	8	\$1,560	24	\$3,960	12	\$1,620	16	\$2,320	60	\$9,460
<b>Technical Specifications</b>	<b>24</b>	<b>\$4,680</b>	<b>40</b>	<b>\$6,600</b>	<b>8</b>	<b>\$1,080</b>	<b>0</b>	<b>\$0</b>	<b>72</b>	<b>\$12,360</b>
<b>Final Design Report Preparation</b>	<b>24</b>	<b>\$4,680</b>	<b>8</b>	<b>\$1,320</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>32</b>	<b>\$6,000</b>
<b>Quality Assurance Check</b>	<b>24</b>	<b>\$4,680</b>	<b>16</b>	<b>\$2,640</b>	<b>4</b>	<b>\$540</b>	<b>16</b>	<b>\$2,320</b>	<b>60</b>	<b>\$10,180</b>
<b>Final Quantities and Cost Estimating Support</b>	<b>8</b>	<b>\$1,560</b>	<b>24</b>	<b>\$3,960</b>	<b>32</b>	<b>\$4,320</b>	<b>0</b>	<b>\$0</b>	<b>64</b>	<b>\$9,840</b>
<b>Final Design Subtotals</b>	<b>294</b>	<b>\$57,330</b>	<b>614</b>	<b>\$101,310</b>	<b>586</b>	<b>\$79,110</b>	<b>322</b>	<b>\$46,690</b>	<b>1818</b>	<b>\$284,440</b>
<b>Design Phase Labor Total</b>									<b>1,874</b>	<b>\$295,360</b>

LOCATION: Savannah/Hilton Head International Airport

Date: 8/18/2022

PROJECT: Extend Taxiway G

Prepared by: SGH/dk

CONTRACT NO.:

EMPLOYEE CLASSIFICATION		PROJ. MGR.	SR STR/CIVIL ENG	SR. DSGN/ENG	CADD TECH	TOTAL HOURS
NO. OF DWGS	DRAWING DESCRIPTION	Hours	Hours	Hours	Hours	
1	Cover Sheet	0	0	2	2	4
2-3	Summary of Quantities and Safety and Sec	0	0	6	4	10
4	Contract Layout Plan & Notes	2	0	8	12	22
6	Safety Details	0	0	2	2	4
7-8	Phasing Plan & Notes	4	4	8	12	28
9-10	Horizontal and Vertical Control Plan	0	0	4	4	8
11-12	Typical Pavement Sections	4	8	16	12	40
13-14	Existing Conditions Survey	2	2	8	10	22
15-16	Demolition Plan - Site	2	0	16	8	26
17-18	Geometry Plans	4	8	16	16	44
19-20	Grading and Drainage Plans	8	24	48	24	104
21-22	Spot Elevation Plan	4	4	8	4	20
23-24	Underdrain Plans	4	4	16	4	28
25-27	Drainage Details	2	8	12	12	34
28.30	Box Culvert Details	4	8	32	16	60
31-33	Special Drainage Details	12	8	32	16	68
34	Drainage Structure Schedule	2	4	6	2	14
35-36	Joint Layout Plan	2	6	12	4	24
37-38	Joint Details	0	2	6	2	10
39	Erosion Control Plan	1	1	8	4	14
40-42	Erosion Control Plan	1	1	8	4	14
43-44	Lighting Layout Plan	1	1	12	4	18
45-46	Lighting Details	0	1	4	4	9
47	Signage Details	0	1	4	4	9
48-50	Fencing Plan & Detail	2	2	16	8	28
51	Security Gate Details	2	6	4	8	20
52-53	Pavement Marking Plans	1	2	8	1	12
54	Marking Details	1	2	4	4	11
55	Utility Plans	2	4	10	6	22
56-57	Utility Details	2	4	10	6	22
58-63	Cross Sections	2	4	24	12	42
	Internal QA/QC	16	16	0	0	32
<b>TOTAL</b>		<b>87</b>	<b>135</b>	<b>370</b>	<b>231</b>	<b>823</b>

**AECOM**

**OUT-OF-POCKET EXPENSE ESTIMATE:**

**LOCATION:** Savannah/Hilton Head International Airport

**PROJECT:** Extend Taxiway G

Date: 08/18/22

**CONTRACT NUMBER:**

Prepared By: SGH/dk

DESCRIPTION	UNITS	UNIT PRICE	ESTIMATED TOTAL PRICE
<b>I. TRAVEL EXPENSES</b>			
Commercial Carrier	6 trips @	\$500.00	\$3,000.00
Meals	6 trips @	\$60.00	\$360.00
Lodging	6 days @	\$150.00	\$900.00
Rental Car	6 days @	\$60.00	\$360.00
<b>SUBTOTAL TRAVEL EXPENSES</b>			<b>\$4,620.00</b>
<b>II. COMMUNICATION EXPENSES</b>			
Telephone	50 weeks @	\$10.00 /week	\$500.00
U.S. Postage / Express Service	1 lump sum @	\$1,000.00	\$1,000.00
<b>SUBTOTAL COMMUNICATION EXPENSES</b>			<b>\$1,500.00</b>
<b>III. PRODUCTION / PRESENTATION EXPENSES</b>			
Prints	12 sets @	\$200.00	\$2,400.00
Photocopying	1 lump sum @	\$1,000.00	\$1,000.00
Report Printing / Binding / Graphic / Covers, Etc.	1 lump sum @	\$100.00	\$100.00
Presentation Graphics	@		\$0.00
Boards / Signs	@		\$0.00
Slides	@		\$0.00
Video	@		\$0.00
Model	@		\$0.00
Reference Materials	@		\$0.00
Aerial Photography	@		\$0.00
Quad Sheets / Maps	@		\$0.00
Coordinate Data	@		\$0.00
Microfilm	lump sum @		\$0.00
<b>SUBTOTAL PRODUCTION / PRESENTATION EXPENSES</b>			<b>\$3,500.00</b>
<b>TOTAL PROJECT OUT-OF-POCKET EXPENSES</b>			<b>\$9,620.00</b>



## Cal -Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056  
Tel. (386) 753-3633 • Fax (386) 752-5456

7540 103<sup>rd</sup> Street, Suite 215, Jacksonville, FL 32210  
Tel. (904) 381-8901 • Fax (904) 381-8902

November 15, 2011

Mr. Steven Henriquez, P.E.  
AECOM  
7650 W. Courtney Campbell Cswy.  
Tampa, Florida 33607

**RE: Proposal for Geotechnical Engineering Exploration  
Savannah/Hilton Head Int' Airport-Taxiway G Extension  
Savannah, Georgia**

Dear Mr. Steven Henriquez, P.E.:

Cal-Tech Testing, Inc. (CTTI) is pleased to submit this proposal to perform a geotechnical engineering exploration for the proposed extension of Taxiway G at the Savannah/Hilton Head International Airport in Savannah, Georgia.

### **SITE & PROJECT INFORMATION**

Based on drawings and written information you provided to us, the airport plans an approx. 1,500 ft. extension of the existing Taxiway G and requires determination of the subsurface soil conditions to aid in the design and construction of the associated pavement.

### **SCOPE OF SERVICES**

Based on your request, our scope of services will consist drilling 10 Standard Penetration Test (SPT) borings to a depth of 10 ft. at locations along the proposed Taxiway G extension and one (1) pavement core at the intersection with Daniel J Coe Jr. Drive. The SPT boring and core locations will be laid out by our field crew utilizing Ground Positioning System (GPS) coordinates approximately obtained from a web-available mapping system.

The boreholes will be grouted and asphalt-patched (roadway) at completion. CTTI will transport the soil samples to our laboratory for examination and additional testing as required by our geotechnical engineer for classification in general accordance with the Unified Soil Classification System.

At completion of the field and laboratory work, we will prepare a report summarizing the work done, the soil classification through the explored subsurface soil profile and depth to groundwater table if encountered.



**ESTIMATED FEE**

Based on the proposed scope of services and assuming accessibility to the test locations without delays the fee for our geotechnical engineering exploration is as follows:

Mobilization	\$ 600.00
SPT Borings (100 ft. @ \$13.50/ft)	\$1,350.00
Pavement Core (1 @ \$125.00 each)	\$ 125.00
Laboratory Soil Testing	\$1,000.00
Management (utility clearance, coordination, layout, etc.)	\$ 350.00
3-man Crew Lodging and Perdiem	\$ 450.00
Engineering and Report Preparation	\$1,000.00
Administration	\$ 55.00
<b>Total</b>	<b>\$4,930.00</b>

**Schedule**

We anticipate that our field work will encompass two (2) working days. Our report should be issued within 5 working days of completion of the field and laboratory work.

**Limitations**

The soil boring detailed in this proposal presumes standard geotechnical drilling and does not include provisions for drilling through or into environmentally contaminated material.

**Authorization**

If this proposal is acceptable, please authorize us to proceed with the proposed services by signing below and return to our office. A sub-contract agreement will also be sufficient as authorization.

**Closing**

CTI appreciates the opportunity to provide this proposal and we look forward to serving you on this and future projects. If you have any questions please contact us at our Lake City, FL office (386) 755-3633.

Sincerely,

Cal-Tech Testing, Inc.

  
Ivan E. Marcano, MSCE, P.E.  
Sr. Geotechnical Engineer

  
Mike Stalvey, Jr.  
Vice-President

Proposal for Geotechnical Engineering Exploration-Savannah/Hilton Head Int' Airport, Taxiway G Extension, Savannah, Georgia

Name of Representative  
(Print)

Date

Title:

Representative Signature:



Wednesday, November 24, 2021

Neil Engineering Inc.  
www.neilengineering.org  
25 Bull Street Suite 404LL  
Savannah, Georgia 31401

To: Steve Henriquez, Vice President, AECOM  
Re: Topographic and Utilities Survey for Extension of Taxiway G at Savannah-Hilton Head International Airport

Dear Steve,

Thank You for asking Neil Engineering to submit our fee proposal for survey work at Savannah-Hilton Head International Airport. Per the information you provided the following is our fee proposal and scope of work:

- Neil Engineering surveyor will prepare a Topographic Survey of Taxiway G Extension approximately 400'x1700' ( As shown on Exhibit by AECOM Technical Services Inc.) The topographic survey will depict the topographic features within the project site. The survey will be performed in compliance with the minimum standard requirements for the State of Georgia. The surveyor will obtain ground elevations with 50' stationing picking up centerline, edge of concrete pavement and edge of asphalt shoulder pavement and a minimum of 50'x50' grid on the grassed infield area. The surveyor will locate above ground ready visible utilities and improvements, sanitary sewer systems, storm drainage, ditches, and pipes and adjacent roadways. The surveyor will establish two (2) horizontal and vertical control points within the project site; the contour interval for the survey will be one (1). The vertical datum will be NAVD88 unless otherwise directed by the client. The surveyor will prepare a drawing to a suitable size and scale to be plotted on a 24"x36" sheet
- Utility locate for topographic Survey: The surveyor will hire a utility locate contractor to mark underground utilities for the project site paint and/or flags will be placed on the ground directly above all traceable underground utilities within specific areas. Underground storage tank, irrigation systems, traffic control wires and cables as well as sewer and storm drain lines will not be marked.



- Additional Services: The scope services listed in this proposal are specific to the normal and customary level effort required to complete each task. If circumstances arise beyond the control of the surveyor, or if additional information, meetings, etc, are necessary at the request of the client or required of any governing agency.

We anticipate commencement of our work within two or three weeks from receipt of your written authorization.

Our fee for above scope of Work:

Topographic Survey: Lump Sum-\$21,500.00

Utility Locate: Lump Sum-\$3,000.00

We are looking forward to working with you on this project and on future pursuits as well. If you have any questions please feel free to contact me via phone at 404.840. 2884 or via email [cgould@neileng.com](mailto:cgould@neileng.com)

Kindest Regards,

***Carol M. Gould***

Carol M. Gould, MPA  
Neil Engineering Inc.  
Vice President, Managing Partner