



STANDARD AGREEMENT FOR PROFESSIONAL SERVICES

THIS AGREEMENT made between Savannah Airport Commission, whose address is 400 Airways Avenue, Savannah, Georgia 31408, hereinafter called the **CLIENT** and Crawford, Murphy & Tilly, Inc., Consulting Engineers, 3330 Cumberland Boulevard SE, Suite 500, Atlanta, Georgia 30339, hereinafter called the **ENGINEER**.

WITNESSETH, that whereas the **CLIENT** desires the following described professional engineering, land surveying or architectural services:

SAVANNAH – HILTON HEAD INTERNATIONAL AIRPORT RENTAL CAR FACILITY IMPROVEMENTS

In general, this project consists of various improvements to the North and South Rental Car Ready Lots located adjacent to the Terminal Building. The lots adjacent the terminal will be redesigned to provide for the secure storage of vehicles which will enable the rental car agencies to provide their premier customers with “walk by the counter” service. This project will provide pavement, drainage, lighting, security, and customer service improvements to the airport’s rental car facilities. A detailed description of the proposed scope of work is presented in **Attachment A** to this Agreement.

NOW THEREFORE, the **ENGINEER** agrees to provide the above described services and the **CLIENT** agrees to compensate the **ENGINEER** for these services on a lump sum basis in the amount of Three Hundred Twenty-Three Thousand Four Hundred Thirty-Three and no/100 Dollars (\$323,433.00). A detailed breakdown of the various tasks, as well as their corresponding manhour and fee estimates, associated with the proposed scope of services is presented in **Attachment B** to this Agreement.

IT IS MUTUALLY AGREED THAT, payment for services rendered shall be made monthly in accordance with invoices rendered by the **ENGINEER**.

IT IS FURTHER MUTUALLY AGREED:

The **CLIENT** and the **ENGINEER** each binds himself, his partners, successors, executors, administrators and assignees to each other party hereto in respect to all the covenants and agreements herein and, except as above, neither the **CLIENT** nor the **ENGINEER** shall assign, sublet or transfer any part of his interest in this **AGREEMENT** without the written consent of the other party hereto. This **AGREEMENT**, and its construction, validity and performance, shall be governed and construed in accordance with the laws of the State of Georgia. This **AGREEMENT** is subject to the General Conditions attached hereto.

[NOTE: The remainder of this page has been intentionally left blank.]



IN WITNESS WHEREOF, the parties hereto have affixed their hands and seals this _____ day of _____, 2020.

CLIENT:

SAVANNAH AIRPORT COMMISSION

(Client Name)

(Signature)

(Name and Title)

Date

ENGINEER:

CRAWFORD, MURPHY & TILLY, INC.

Michael J. PETER

(Signature)

MICHAEL J. PETER AVIATION GROUP MANAGER

(Name and Title)

24/JUNE/2020

Date

CMT Job No. Yet To Be Assigned

- Attachments: A - Detailed Scope of Work Narrative (consisting of 6 pages)
B - Professional Services Manhour and Cost Estimate (consisting of 6 pages)

STANDARD GENERAL CONDITIONS
Crawford, Murphy & Tilly, Inc.

1. Standard of Care

In performing its professional services hereunder, the **ENGINEER** will use that degree of care and skill ordinarily exercised, under similar circumstances, by members of its profession practicing in the same or similar locality. No other warranty, express or implied, is made or intended by the **ENGINEER'S** undertaking herein or its performance of services hereunder.

2. Reuse of Document

All documents including Drawings and Specifications prepared by **ENGINEER** pursuant to this Agreement are instruments of service. They are not intended or represented to be suitable for reuse by **CLIENT** or others on extensions of the Project or on any other project. Any reuse without written verification or adaptation by **ENGINEER** for the specific purpose intended will be at **CLIENT'S** sole risk and without liability or legal exposure to **ENGINEER**; and **CLIENT** shall indemnify and hold harmless **ENGINEER** from all claims, damages, losses and expenses including attorneys' fees arising out of or resulting therefrom.

3. Termination

This Agreement may be terminated by either party upon seven days prior written notice. In the event of termination, the **ENGINEER** shall be compensated by the client for all services performed up to and including the termination date, including reimbursable expenses, and for the completion of such services and records as are necessary to place the **ENGINEER'S** files in order and/or to protect its professional reputation.

4. Parties to the Agreement

The services to be performed by the **ENGINEER** under this Agreement are intended solely for the benefit of the **CLIENT**. Nothing contained herein shall confer any rights upon or create any duties on the part of the **ENGINEER** toward any person or persons not a party to this Agreement including, but not limited to any contractor, subcontractor, supplier, or the agents, officers, employees, insurers, or sureties of any of them.

5. Construction and Safety

The **ENGINEER** shall not be responsible for the means, methods, procedures, techniques, or sequences of construction, nor for safety on the job site, nor shall the **ENGINEER** be responsible for the contractor's failure to carry out the work in accordance with the contract documents.

6. Payment

Payment for services rendered shall be made monthly in accordance with invoices rendered by the **ENGINEER**. If payment is to be on a lump sum basis, monthly payments will be based on the portion of total services completed during the month. Invoices, or any part thereof, which are not paid within 30 days after the date of issue shall bear interest at the rate of 1-1/2% for each month or fraction thereof from the date 30 days after issue to time of payment. **CLIENT** will pay on demand all collection costs, legal expenses and attorneys' fees incurred or paid by **ENGINEER** in collecting payment, including interest, for services rendered.

7. Project Schedule and Scope

Based on the schedule objectives provided by **CLIENT**, **ENGINEER** will develop a schedule of important milestones as necessary for the project for **CLIENT'S** review and approval. **ENGINEER** will monitor performance of services for conformance with the schedule and will notify **CLIENT** of any necessary changes to or deviations from the schedule. Where required by approved project schedule, **ENGINEER** will present the required deliverables and complete the required tasks at the appropriate intervals for **CLIENT'S** review and approval prior to payment.

ATTACHMENT A
SCOPE OF SERVICES

SAVANNAH / HILTON HEAD INTERNATIONAL AIRPORT
RENTAL CAR FACILITY IMPROVEMENTS

QUALIFICATION STATEMENT:

This Agreement has been prepared based on the assumptions presented below. If the scope of work deviates from the assumptions presented below which results in a change in the level of effort to perform the required engineering services, then both parties shall negotiate a mutually agreeable amendment to this Agreement.

This project consists of various improvements to the North and South Rental Car Ready Lots located adjacent to the Terminal Building. The lots adjacent the terminal will be redesigned to provide for the secure storage of vehicles which will enable the rental car agencies to provide their premier customers with “walk by the counter” service. This project will provide pavement, drainage, lighting, security, and customer service improvements to the airport’s rental car facilities. It is assumed that sufficient capacity exists to support the new facilities, and therefore the design and coordination of increasing capacity, such as electrical service to the terminal area, is not included in this scope of work. As the design progresses, and if it is discovered that an increase to the terminal area electrical service is necessary, then the effort to design and coordinate this additional work will be addressed in a supplemental Agreement.

In general, the North Lot design includes location of and proposed utilities for new exit booths; location of and required utilities for drive-lane vehicular barrier systems; development of additional exit and entrance lanes to support rental car and TNC traffic flows; pedestrian walkways improvements; new pavement seal coating and markings; replacement of the canopy lighting fixtures; new fiber runs in support of upgrades to the CCTV system; fencing improvements; and additional vehicular security measures. The scope of work for the North Lot does not include the design of drainage improvements to address current periodic flooding condition.

In general, the South Lot design includes location of and proposed utilities for new exit booths; location of and required utilities for drive-lane vehicular barrier systems; development of an additional canopy; development of additional exit and entrance lanes to support rental car traffic flows; pedestrian walkways improvements; new pavement seal coating and markings; replacement of the canopy lighting fixtures; new fiber runs in support of upgrades to the CCTV system; fencing improvements; and additional vehicular security measures.

The scope of services is based upon our review of the existing “100% Construction Plans for Rental Car Facility Improvements” prepared by Michael Baker (MB) International at the Savannah Hilton Head International Airport, dated October 2019. It is our understanding that CMT will be contracted directly by the Airport to review, revise and update as required for clarity and constructability the plans and specifications previously prepared by MB in order to provide a final set of bid documents for the airport’s use, signed and sealed by CMT or one of its subconsultants. At this time, it is anticipated that the improvements to be considered will be proposed under a single schedule of work generally defined as “North and South Rental Car Ready Lot Improvements, including New Canopy & Security Measures.

A detailed breakdown of professional services to be provided is as follows:

PROGRAM FORMULATION & VALIDATION SERVICES:

The design effort will be split into two (2) phases, the first of which will include the program formulation and validation phase. This initial phase will incorporate preliminary re-design of the proposed improvements. The task items to be completed during this phase are anticipated to be as follows:

1. **Pre-Design Site Visit & Kickoff Meeting** – CMT, and its sub-consultants, will perform an initial site visit to review existing conditions and confirm design constraints, including a plan-in-hand review of previously surveyed information. This visit will also include a kickoff meeting with the airport to confirm scope, schedule & budget for both schedules of work. This task includes up to one (1) full day onsite by two (2) CMT team members.
2. **Design Review of MB Plans** – CMT, and its sub-consultants, will perform a peer review of the existing contract documents prepared by MB for the Airport under a previous contract to assess completeness of plans and compliance with Airport standards and procedures. It is our understanding that all existing files previously prepared by MB will be turned over to the Airport and provided to CMT as part of this contract. This includes all PDF sheets and CAD files, calculations, reports, notes, minutes, etc. CMT will review these documents but assumes no responsibility for the accuracy of this information and will notify the airport of any gaps in information provided.
3. **Site Survey & Investigation** – It is assumed that the topographic survey information provided to CMT by the Airport may be relied upon as to its accuracy without independent investigation by CMT, and furthermore we assume that the Airport has the right to provide such documents to CMT free of any claims. CMT assumes no responsibility for the accuracy of this information, nor for the re-use of documents furnished by third parties under previous contracts not including CMT. During the Pre-Design Site Visit, CMT will perform a plan-in-hand review of this information and notify the airport of any visual discrepancies to determine if additional pickups are needed. It is anticipated that no new survey information will be required as part of this contract.
4. **Utility Review & Coordination** – CMT will coordinate with the Airport and local utility companies to verify the location and depth (where applicable) of known private & public utilities within the vicinity of the project. CMT will utilize and review existing utility information previously prepared by MB and provided by the Airport under a previous contract. It is anticipated that no new utility locates or survey pickups of this information will be required. Additional services for these items, including potholing to verify existing utilities, can be provided if requested at an additional cost.
5. **Geometric Design Revisions & Approval** – CMT will utilize and review the design previously completed by MB and modify the documents as required to provide compliance with Airport, City of Savannah, and otherwise industry standards. Preliminary design will be completed for the proposed improvements and will be submitted to the Airport for review and approval prior to completing and issuing For Bid & For Construction Documents. This effort is anticipated to include providing updated geometry, confirmation of turning movements, and preparation of critical details to assist the Airport in confirming the proposed scope & budget. CMT anticipates that the proposed scope of the project is to be consistent with what has been previously provided in the MB plans and will not significantly change under this contract.

FINAL DESIGN PHASE:

After approval of the preliminary redesign by the Airport, the second phase of the project will commence and will include final design of the proposed improvements. CMT anticipates that these improvements will be solicited as a single set of construction plans and specifications, and therefore, shall be prepared as a single schedule of work. The task items to be completed during this phase are anticipated to be as follows:

1. **Construction Documents** – CMT, and its sub-consultants, will prepare final construction documents to include necessary plans and details, including, but not necessarily limited to the following: demolition, site, staking, grading & drainage, pavement construction, fencing & access control, pavement marking, MUTCD & airport-specific directional signage, erosion control, construction phasing, construction logistics, and associated electrical, structural & architectural plans and details along with associated technical specifications to accompany the plans. It is further assumed that the program formulation and validation phase will include approval of the final project scopes and no alternate bid items will be required.
2. **Utility Infrastructure Design** – CMT will coordinate and investigate the relocation of the existing chilled water lines along the east edge of the proposed “Uber/Lyft” lane in the north rental car lot. This design will not include analysis of the existing systems or design and recommendations of existing or proposed capacities. This task generally includes relocation of approximately 600 LF of existing chilled water lines to avoid conflicts with the proposed Uber/Lyft lane and associated fencing. Except for the chilled water line relocations and fiber optic improvements, no other utility infrastructure extensions or relocations are anticipated as part of this project.
3. **Storm Water Management** – CMT assumes that no permanent site-specific storm water management quantity or quality mitigation will be required based upon the Airport’s representation that any additional impervious areas added to the Airport have already been mitigated as part of the Airport’s master drainage study previously completed by others. CMT will review MB’s design of storm water conveyance measures and adjust if needed.
4. **Erosion & Sedimentation Control Design Services** – CMT will engage the services of Coleman Company, Inc. to update and complete the proposed erosion and sedimentation control plans for water quality in accordance with the requirements stipulated per the Georgia Water Quality Control Act and the “Manual for Erosion and Sediment Control in Georgia” to conform to City of Savannah and Georgia EPD guidelines.
5. **Electrical Design Services** – CMT will engage the services of RWP Engineering, Inc. to update and complete the electrical design of the site lighting for the north & south rental car parking lots, pre-fabricated booths, and access control systems. In addition, coordination and design will be provided for the fiber optic and security measures to be installed as per the MB drawings.
6. **Structural Design Services** – CMT will engage the services of RWP Engineering, Inc. to update and complete the structural design of the proposed south rental car lot canopies and other concrete pad foundations throughout the project site as defined by the MB drawings.
7. **Architectural Design Services** – CMT will engage the services of a sub-consultant Architect to update and complete the architectural design of the proposed south rental car lot canopies and the proposed exit booths, as well as to assist with other hardscape and architectural elements.

8. **Cost Estimating** – CMT will prepare an Opinion of Probable Construction Cost (OPCC) for the project to accompany both the 90% and 100% submittals. Each OPCC will be thorough enough to allow the Airport to identify costs associated with major work elements. These estimates will be structured in a Schedule of Values format by major work items, and will not include itemized pay items.
9. **Quality Management Reviews** – CMT will provide a quality management review for each design submittal stage of the project as outlined below. CMT will assign an independent senior level engineer to lead the reviews for each discipline and require the same for each of our subs.
10. **Geotechnical Investigation Services** – CMT will engage the services of Whitaker Laboratory, Inc. to perform geotechnical services in the form of soil borings or CPT soundings in support of the structural design of the proposed south rental car lot canopies and other concrete pad foundations throughout the project site as defined by the MB drawings.
11. **Project Management, Meetings & Coordination** – CMT will provide coordination with the Airport and CMT’s subconsultant’s during all phases of the project. CMT assumes attendance the following meetings:
 - One (1) on-site project kickoff meeting at SAV with the Airport
 - One (1) project geometry validation virtual meeting
 - One (1) project pre-final design review virtual meeting
 - One (1) on-site project pre-bid meeting at SAV with the Airport
12. **Additional Project Specific Assumptions** – The following exclusions, clarifications, and/or assumptions have been included as part of this proposal:
 - The performance of traditional environmental graphic design services related to the custom wayfinding signage improvements is not included in this Agreement. Rather, the proposed custom wayfinding signage improvements will be assigned an allowance in the proposed project documents.
 - No title work or boundary surveys will be provided
 - Additional field surveys and utility potholing will not be required
 - Pavement sections will be provided based upon the Airport’s standard general pavement section guidelines
 - Services not anticipated to be provided by CMT for this project:
 - Landscape or irrigation design
 - Design of amenities (benches, trash cans, etc.)
 - Environmental services or mitigation
 - All required permit fees are excluded
 - Design of lift stations will not be required
 - No upgrades or expansion of the existing airport internal roadway network is required
 - 3D renderings or models will not be required

PERMITTING PHASE:

Due to the circumstances of this project, it has been assumed that it would be in the best interests of the re-structured project to re-initiate the City of Savannah plan review process to minimize the potential for delays during the upcoming project permitting process. To facilitate this process, CMT will engage the services of local area firms to assist in the Agency Plan Review/Entitlement process for this project, which is anticipated to include a site plan/building permit from the City of Savannah, as well as a Land Disturbance permit from the Environmental Protection Division of the State of Georgia. It is assumed that no zoning, variances, easements or other entitlements will be required.

CONSTRUCTION PHASE:

CMT, and its sub-consultants, will provide limited bid phase assistance to the Airport to include answering bid questions and issuing addendums as required. Attendance at any pre-bid meeting by one (1) CMT team member has been included in this task, as well as attendance by some of the essential sub-consultants as determined by the Airport. In addition, upon award of the project to the responsive low bidder, CMT, and its sub-consultants, will provide limited construction administration phase services. As coordinated with the Airport, these services generally include General coordination with the Airport and various Agencies throughout the 10-month project duration, Prepare for and participate in the Pre-Construction conference with the contractor and Airport, Prepare for and participate in city of Savannah permit-related site inspections, Review and process of project submittals, Respond to requests for information (RFIs) from the contractor, Prepare for and participate in construction progress conference calls, Prepare for and conduct construction site visits in support of the above activities, Prepare for and participate in the project Final Inspection, assist Airport with contractor project closeout documentation, and assist Airport with review & processing of contractor-prepared record drawings. Attendance at any construction phase meetings by one (1) CMT team member has been included in this task, as well as attendance by some of the essential sub-consultants as determined by the Airport. To establish this scope and fee proposal, a total of four site visits by one (1) CMT team member has been included in this task, given that the Airport staff handles construction phase project inspection services in-house with their own staff.

DESIGN SUBMITTALS & PROJECT SCHEDULE:

1. **Design Submittals** – All documents, including drawings, specifications, cost estimates & calculations shall be prepared in accordance with the Airport standards. Final documents shall be certified with the seal and signature of the A/E with professional registration in the state of Georgia. Final design phase submittals will be provided at the 90% and 100% Construction Documents stages. A 90% design review virtual meeting will be conducted within 15 days of the 90% submittal.
2. **Design Schedule** – A design phase project schedule has not been established at this time. It is assumed that a mutually agreed upon project schedule will be established because of discussions that will occur during the project pre-design meeting. To establishing this scope and fee proposal, the design activities requiring submittals have been assumed to be accomplished in accordance with the schedule indicated below:

- Issue Notice to Proceed NTP
- Redesign Geometry Complete NTP + 30 days
- Redesign Geometry Approval NTP + 45 days

- 90% Design Submittal NTP + 75 days
- 90% Design Review Comments NTP + 90 days
- 100% "For-Bid" Submittal NTP + 105 days

If the actual design schedule deviates from the assumptions presented which results in a change in the level of effort to perform the required engineering services, then both parties shall negotiate a mutually agreeable amendment to this Agreement.

3. Construction Schedule – Based on the current understanding of the project elements, as well as the proposed project sequence of construction, it is anticipated that the proposed improvements will be constructed over a 10-month long duration. If the final design of the project results in a substantive change to the proposed improvements and its associated construction duration, requiring a corresponding change in the level of effort to perform the required construction phase services, then both parties shall negotiate a mutually agreeable amendment to this Agreement.

CRAWFORD, MURPHY & TILLY, INC.
2020 PROFESSIONAL SERVICES MANHOUR & COST ESTIMATE



CLIENT: SAVANNAH AIRPORT COMMISSION
AIRPORT: SAVANNAH - HILTON HEAD INTERNATIONAL AIRPORT
PROJECT NAME: RENTAL CAR FACILITY IMPROVEMENTS
DESCRIPTION: SUMMARY OF PROFESSIONAL SERVICES

ESTIMATE OF FEES			FEE BREAKDOWN		
TASK NO.	LISTING OF TASKS	TASK TOTAL	LABOR TOTAL	DIRECT EXPENSE TOTAL	SUB-CONSULTANT TOTAL
1	PROGRAM FORMULATION & VALIDATION SERVICES	\$37,755.00	\$35,270.00	\$2,485.00	\$0.00
2	FINAL DESIGN PHASE SERVICES	\$133,355.00	\$55,925.00	\$1,200.00	\$76,230.00
3	PROJECT PERMITTING PHASE SERVICES	\$18,310.00	\$7,810.00	\$1,370.00	\$9,130.00
4	GEOTECHNICAL INVESTIGATION SERVICES	\$10,364.00	\$2,500.00	\$175.00	\$7,689.00
	DESIGN PHASE SUB-TOTAL =	\$199,784.00	\$101,505.00	\$5,230.00	\$93,049.00
5	CONSTRUCTION PHASE SERVICES	\$123,649.00	\$87,930.00	\$5,945.00	\$29,774.00
	CONSTRUCTION PHASE SUB-TOTAL =	\$123,649.00	\$87,930.00	\$5,945.00	\$29,774.00
	FEE PROPOSAL - TOTAL =	\$323,433.00	\$189,435.00	\$11,175.00	\$122,823.00

CRAWFORD, MURPHY & TILLY, INC.

2020 PROFESSIONAL SERVICES MANHOUR & COST ESTIMATE



CLIENT: SAVANNAH AIRPORT COMMISSION

AIRPORT: SAVANNAH - HILTON HEAD INTERNATIONAL AIRPORT

PROJECT NAME: RENTAL CAR FACILITY IMPROVEMENTS

DESCRIPTION: PROGRAM FORMULATION & VALIDATION SERVICES

ESTIMATE OF LABOR			LABOR BREAKDOWN							
ITEM NO.	LISTING OF TASKS	TOTALS	PROJECT MANAGER II	PROJECT ENGINEER II	PROJECT MANAGER I	PROJECT ENGINEER I	SENIOR ENGINEER I	ENGINEER I	TECHNICIAN II	PROJECT ASSISTANT
1	General Coordination with Airport related to Project Transition, Scope, Schedule & Budget	22	8	0	8	2	0	0	0	4
2	Perform Design Peer Review of MBI Plans, Specifications, & other Project-related Documents provided by Airport, including Digital Files Clean-up	62	4	0	6	8	12	4	28	0
3	Perform Design Peer Review of MBI Plans, Specifications, & other Project-related Documents by Sub-consultants	0	(Task included in Sub-Consultant's Scope & Fee Proposal)							
4	Prepare for & Conduct Project Transition Kick-off Meeting (1 Meeting assumed), including Project Site Visit	47	10	0	32	4	0	0	1	0
5	Prepare for & Conduct Project Transition Kick-off Meeting (1 Meeting assumed), including Project Site Visit, by Sub-consultants	0	(Task included in Sub-Consultant's Scope & Fee Proposal)							
6	Develop / Refine New Layout Concepts for North & South Lots due to Geometry Issues and/or Prior Review Comments	58	2	0	4	0	32	0	20	0
7	Prepare for & Conduct Layout Revisions Review Virtual Meeting with the Airport	6	1	0	1	2	1	0	1	0
8	Address Layout Revisions Meeting Review Comments; Develop Final Preferred Layout	27	1	0	2	0	8	0	16	0
9	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL MANHOURS =		222	26	0	53	16	53	4	66	4
LABOR EFFORT TOTAL =		\$35,270.00	\$5,720.00	\$0.00	\$10,070.00	\$3,040.00	\$7,950.00	\$520.00	\$7,590.00	\$380.00

ESTIMATE OF DIRECT EXPENSES		
ITEM NO.	LISTING OF DIRECT EXPENSES	AMOUNT
1	Travel Mileage / Airfare / Parking / Rental Car	\$1,285.00
2	Travel Lodging / Meals / Per Diem	\$1,000.00
3	Reproduction / Postage / Shipping	\$200.00
4	Supplies & Miscellaneous	\$0.00
5	< Reserved >	\$0.00
DIRECT EXPENSE TOTAL =		\$2,485.00

ESTIMATE OF SUB-CONSULTANTS		
ITEM NO.	LISTING OF SUB-CONSULTANTS	AMOUNT
1	< Reserved >	\$0.00
2	< Reserved >	\$0.00
3	< Reserved >	\$0.00
4	< Reserved >	\$0.00
5	< Reserved >	\$0.00
TOTAL SUB-CONSULTANTS =		\$0.00
SUB-CONSULTANT ADMIN. FEE (@10%) =		\$0.00
DIRECT EXPENSE TOTAL =		\$0.00
TOTAL FEE AMOUNT =		\$37,755.00

CRAWFORD, MURPHY & TILLY, INC.

2020 PROFESSIONAL SERVICES MANHOUR & COST ESTIMATE



CLIENT: SAVANNAH AIRPORT COMMISSION

AIRPORT: SAVANNAH - HILTON HEAD INTERNATIONAL AIRPORT

PROJECT NAME: RENTAL CAR FACILITY IMPROVEMENTS

DESCRIPTION: FINAL DESIGN PHASE SERVICES

ESTIMATE OF LABOR			LABOR BREAKDOWN							
ITEM NO.	LISTING OF TASKS	TOTALS	PROJECT MANAGER II	PROJECT ENGINEER II	PROJECT MANAGER I	PROJECT ENGINEER I	SENIOR ENGINEER I	ENGINEER I	TECHNICIAN II	PROJECT ASSISTANT
1	Continued Coordination with Airport Project Team related to Plan Development Progress	6	4	0	0	0	0	0	0	2
2	Prepare / Revise Pre-Final Front-End, Safety & Phasing, etc. Plan Sheets & Details	24	1	0	1	2	8	0	12	0
3	Prepare / Revise Pre-Final Demolition, Utility Modification, Project Layout, & Paving Plan Sheets & Details	40	1	0	1	2	12	0	24	0
4	Prepare / Revise Pre-Final Grading & Drainage Plan Sheets & Details	22	1	0	1	0	8	0	12	0
5	Prepare / Revise Pre-Final Erosion Control Plan Sheets & Details	0	{ Task included in Sub-Consultant's Scope & Fee Proposal }							
6	Prepare / Revise Pre-Final Fencing, Access Control, & Marking Plan Sheets	38	1	0	1	0	12	0	24	0
7	Prepare / Revise Pre-Final Lighting Plan Sheets & Details, Including Lighting Demolition	0	{ Task included in Sub-Consultant's Scope & Fee Proposal }							
8	Prepare / Revise Pre-Final Fiber Optics Plan Sheets & Details	45	1	0	0	12	0	32	0	0
9	Prepare / Revise Pre-Final Canopy & Exit Booths Plan Sheets & Details, Including Architectural & Structural Disciplines	0	{ Task included in Sub-Consultant's Scope & Fee Proposal }							
10	Prepare / Revise Pre-Final Temporary & Permanent Signage Plan Sheets & Details, Including Demolition	12	2	0	0	2	0	8	0	0
11	Estimate Construction Cost associated with the Revised Scope of Work based on Schedule of Values Methodology	14	2	0	2	2	4	0	4	0
12	Revise/Update Technical Specifications	46	0	0	2	8	32	0	0	4
13	Sub-Consultant Technical Support with Quantities, Cost Estimating, & Specification Revisions	0	{ Task included in Sub-Consultant's Scope & Fee Proposal }							
14	Prepare for & Conduct Pre-Final Plan Review Virtual Meeting (1 Virtual Meeting assumed)	9	2	0	1	4	1	0	1	0
15	Address Plan Review Meeting Comments; Coordinate with Airport Project Team	7	1	0	2	2	0	0	2	0
16	Prepare Final Version of Plan Sheets & Details	70	2	0	2	2	24	0	40	0
17	Prepare Final Version of Technical Specifications & Construction Cost Estimate	28	2	0	2	2	16	0	4	2
18	Perform Internal Quality Reviews	20	0	0	16	4	0	0	0	0
19	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL MANHOURS =		381	20	0	31	42	117	40	123	8
LABOR EFFORT TOTAL =		\$55,925.00	\$4,400.00	\$0.00	\$5,890.00	\$7,980.00	\$17,550.00	\$5,200.00	\$14,145.00	\$760.00

ESTIMATE OF DIRECT EXPENSES		
ITEM NO.	LISTING OF DIRECT EXPENSES	AMOUNT
1	Travel Mileage / Airfare / Parking / Rental Car	\$0.00
2	Travel Lodging / Meals / Per Diem	\$0.00
3	Reproduction / Postage / Shipping	\$1,050.00
4	Supplies & Miscellaneous	\$150.00
5	< Reserved >	\$0.00
DIRECT EXPENSE TOTAL =		\$1,200.00

ESTIMATE OF SUB-CONSULTANTS		
ITEM NO.	LISTING OF SUB-CONSULTANTS	AMOUNT
1	Civil Sub-Consultant Support	\$10,000.00
2	Architectural Sub-Consultant Support	\$36,700.00
3	Structural / Electrical Sub-Consultant Support	\$22,600.00
4	< Reserved >	\$0.00
5	< Reserved >	\$0.00
TOTAL SUB-CONSULTANTS =		\$69,300.00
SUB-CONSULTANT ADMIN. FEE (@10%) =		\$6,930.00
DIRECT EXPENSE TOTAL =		\$76,230.00
TOTAL FEE AMOUNT =		\$133,355.00

CRAWFORD, MURPHY & TILLY, INC.

2020 PROFESSIONAL SERVICES MANHOUR & COST ESTIMATE



CLIENT: SAVANNAH AIRPORT COMMISSION
 AIRPORT: SAVANNAH - HILTON HEAD INTERNATIONAL AIRPORT
 PROJECT NAME: RENTAL CAR FACILITY IMPROVEMENTS
 DESCRIPTION: PROJECT PERMITTING PHASE SERVICES

ESTIMATE OF LABOR			LABOR BREAKDOWN							
ITEM NO.	LISTING OF TASKS	TOTALS	PROJECT MANAGER II	PROJECT ENGINEER II	PROJECT MANAGER I	PROJECT ENGINEER I	SENIOR ENGINEER I	ENGINEER I	TECHNICIAN II	PROJECT ASSISTANT
1	General Permitting Coordination with Airport, City of Savannah & Georgia EPD	6	2	0	1	0	1	0	0	2
2	Prepare for & Conduct City of Savannah Plan Review Meeting (1 Meeting assumed)	14	10	0	1	2	1	0	0	0
3	Prepare & Submit City of Savannah Permit Documents, including supporting Checklists and Calculations	8	1	0	1	0	2	0	4	0
4	Address City of Savannah Plan Review Comments; Submit Revised Permit Documents and supporting Data for Approval	5	1	0	1	0	1	0	2	0
5	Sub-consultant Support regarding City of Savannah Permit Documents Process, including Review Comments	0	(Task included in Sub-Consultant's Scope & Fee Proposal)							
6	Prepare & Submit Georgia EPD Land Disturbance Permit Documents, including supporting Checklists and Calculations	8	1	0	1	0	2	0	4	0
7	Address Georgia EPD Land Disturbance Permit Review Comments; Submit Revised Permit Documents and supporting Data for Approval	5	1	0	1	0	1	0	2	0
8	Sub-consultant Support regarding Georgia EPD Land Disturbance Permit Documents Process, including Review Comments	0	(Task included in Sub-Consultant's Scope & Fee Proposal)							
9	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL MANHOURS =		46	16	0	6	2	8	0	12	2
LABOR EFFORT TOTAL =		\$7,810.00	\$3,520.00	\$0.00	\$1,140.00	\$380.00	\$1,200.00	\$0.00	\$1,980.00	\$190.00

ESTIMATE OF DIRECT EXPENSES		
ITEM NO.	LISTING OF DIRECT EXPENSES	AMOUNT
1	Travel Mileage / Airfare / Parking / Rental Car	\$320.00
2	Travel Lodging / Meals / Per Diem	\$350.00
3	Reproduction / Postage / Shipping	\$700.00
4	Supplies & Miscellaneous	\$0.00
5	< Reserved >	\$0.00
DIRECT EXPENSE TOTAL =		\$1,370.00

ESTIMATE OF SUB-CONSULTANTS		
ITEM NO.	LISTING OF SUB-CONSULTANTS	AMOUNT
1	Civil Sub-Consultant Support	\$3,800.00
2	Architectural Sub-Consultant Support	\$2,600.00
3	Structural / Electrical Sub-Consultant Support	\$1,900.00
4	< Reserved >	\$0.00
5	< Reserved >	\$0.00
TOTAL SUB-CONSULTANTS =		\$8,300.00
SUB-CONSULTANT ADMIN. FEE (@10%) =		\$830.00
DIRECT EXPENSE TOTAL =		\$9,130.00
TOTAL FEE AMOUNT =		\$18,310.00

CRAWFORD, MURPHY & TILLY, INC.

2020 PROFESSIONAL SERVICES MANHOUR & COST ESTIMATE



CLIENT: SAVANNAH AIRPORT COMMISSION

AIRPORT: SAVANNAH - HILTON HEAD INTERNATIONAL AIRPORT

PROJECT NAME: RENTAL CAR FACILITY IMPROVEMENTS

DESCRIPTION: GEOTECHNICAL INVESTIGATION SERVICES

ESTIMATE OF LABOR			LABOR BREAKDOWN							
ITEM NO.	LISTING OF TASKS	TOTALS	PROJECT MANAGER II	PROJECT ENGINEER II	PROJECT MANAGER I	PROJECT ENGINEER I	SENIOR ENGINEER I	ENGINEER I	TECHNICIAN II	PROJECT ASSISTANT
1	General Coordination with Airport related to Proposed Geotechnical Scope of Work Definition, Schedule & Budget	4	2	0	1	0	0	0	1	0
2	Prepare & Coordinate with Geotechnical Sub-Consultant related to Scope, Schedule & Budget	6	2	0	1	0	0	0	1	2
3	Field Oversight of Geotechnical Sub-Consultant	0	(Task not anticipated for this Agreement)							
4	Perform Geotechnical Investigations & Analyses	0	(Task included in Sub-Consultant's Scope & Fee Proposal)							
5	Continued Coordination with Geotechnical Sub-Consultant	2	1	0	1	0	0	0	0	0
6	Review Geotechnical Deliverables; incorporate Data into Project Design Drawings and Details	2	1	0	1	0	0	0	0	0
7	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL MANHOURS =		14	6	0	4	0	0	0	2	2
LABOR EFFORT TOTAL =		\$2,500.00	\$1,320.00	\$0.00	\$760.00	\$0.00	\$0.00	\$0.00	\$230.00	\$190.00

ESTIMATE OF DIRECT EXPENSES		
ITEM NO.	LISTING OF DIRECT EXPENSES	AMOUNT
1	Travel Mileage / Airfare / Parking / Rental Car	\$0.00
2	Travel Lodging / Meals / Per Diem	\$0.00
3	Reproduction / Postage / Shipping	\$175.00
4	Supplies & Miscellaneous	\$0.00
5	< Reserved >	\$0.00
DIRECT EXPENSE TOTAL =		\$175.00

ESTIMATE OF SUB-CONSULTANTS		
ITEM NO.	LISTING OF SUB-CONSULTANTS	AMOUNT
1	Geotechnical Sub-Consultant	\$6,990.00
2	< Reserved >	\$0.00
3	< Reserved >	\$0.00
4	< Reserved >	\$0.00
5	< Reserved >	\$0.00
TOTAL SUB-CONSULTANTS =		\$6,990.00
SUB-CONSULTANT ADMIN. FEE (@10%) =		\$699.00
DIRECT EXPENSE TOTAL =		\$7,689.00
TOTAL FEE AMOUNT =		\$10,364.00

CRAWFORD, MURPHY & TILLY, INC.

2020 PROFESSIONAL SERVICES MANHOUR & COST ESTIMATE



CLIENT: SAVANNAH AIRPORT COMMISSION

AIRPORT: SAVANNAH - HILTON HEAD INTERNATIONAL AIRPORT

PROJECT NAME: RENTAL CAR FACILITY IMPROVEMENTS

DESCRIPTION: CONSTRUCTION PHASE SERVICES

ESTIMATE OF LABOR			LABOR BREAKDOWN							
ITEM NO.	LISTING OF TASKS	TOTALS	PROJECT MANAGER II	PROJECT ENGINEER II	PROJECT MANAGER I	PROJECT ENGINEER I	SENIOR ENGINEER I	ENGINEER I	TECHNICIAN II	PROJECT ASSISTANT
1	Prepare "For-Bid" Document Set; Submit to Owner for Publication	10	2	0	2	2	2	0	2	0
2	Prepare for & Conduct Pre-Bid Conference	25	10	0	0	10	2	0	2	1
3	Communicate & Investigate Questions from Prospective Bidders	16	4	0	4	4	4	0	0	0
4	Subconsultant Support regarding Questions from Prospective Bidders	0	<i>(Task included in Sub-Consultant's Scope & Fee Proposal)</i>							
5	Prepare & Coordinate Written Addendum (1 addenda assumed)	11	2	0	2	2	2	0	2	1
6	Prepare for & Conduct Bid Opening	0	<i>(Task not anticipated for this Agreement / Task performed by Airport or Others)</i>							
7	General Coordination with Owner and Agencies (10 Months Duration assumed), including 7460 Submittal	90	10	0	10	20	20	10	10	10
8	Prepare for & Conduct Pre-Construction Conference (Virtual Participation assumed)	9	2	0	2	2	2	0	0	1
9	Prepare for & Conduct City of Savannah Permit-related Site Inspections	0	<i>(Task included in Sub-Consultant's Scope & Fee Proposal)</i>							
10	Review & Process Submittals	88	8	0	8	32	32	0	0	8
11	Respond to Requests for Information (RFIs) from the Contractor	72	8	0	8	16	16	8	8	8
12	Subconsultant Support regarding Submittals, RFIs, & Progress Calls/Meetings	0	<i>(Task included in Sub-Consultant's Scope & Fee Proposal)</i>							
13	Prepare for & Conduct Construction Progress Conference Calls (Assume 2 Calls per Month)	60	20	0	20	10	10	0	0	0
14	Prepare for & Conduct Construction Progress Site Visits (Assume 4 Visits)	60	40	0	0	20	0	0	0	0
15	Review & Process Contractor's Pay Applications	0	<i>(Task not anticipated for this Agreement / Task performed by Airport or Others)</i>							
16	Prepare for & Conduct Project Final Inspection	15	10	0	0	0	2	0	2	1
17	Assist Airport with Contractor Project Closeout Documentation	12	2	0	0	4	4	0	0	2
18	Assist Airport with Review & Processing of Contractor-prepared Record Drawings	36	2	0	2	8	8	0	16	0
19	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	< Reserved >	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL MANHOURS =		504	120	0	58	130	104	18	42	32
LABOR EFFORT TOTAL =		\$87,930.00	\$26,400.00	\$0.00	\$11,020.00	\$24,700.00	\$15,600.00	\$2,340.00	\$4,830.00	\$3,040.00

ESTIMATE OF DIRECT EXPENSES		
ITEM NO.	LISTING OF DIRECT EXPENSES	AMOUNT
1	Travel Mileage / Airfare / Parking / Rental Car	\$1,920.00
2	Travel Lodging / Meals / Per Diem	\$3,150.00
3	Reproduction / Postage / Shipping	\$875.00
4	Supplies & Miscellaneous	\$0.00
5	< Reserved >	\$0.00
DIRECT EXPENSE TOTAL =		\$5,945.00

ESTIMATE OF SUB-CONSULTANTS		
ITEM NO.	LISTING OF SUB-CONSULTANTS	AMOUNT
1	Civil Sub-Consultant Support	\$8,300.00
2	Architectural Sub-Consultant Support	\$12,568.00
3	Structural / Electrical Sub-Consultant Support	\$6,200.00
4	< Reserved >	\$0.00
5	< Reserved >	\$0.00
TOTAL SUB-CONSULTANTS =		\$27,068.00
SUB-CONSULTANT ADMIN. FEE (@10%) =		\$2,706.00
DIRECT EXPENSE TOTAL =		\$29,774.00
TOTAL FEE AMOUNT =		\$123,649.00