

**PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY**

Meeting Date: February 8, 2022 [] Consent [X] Regular
[] Workshop [] Public Hearing

Submitted By: Department of Airports

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Amendment No. 7 to the General Consulting Agreement with AECOM Technical Services, Inc. (AECOM) for Consulting/ Professional Services in the amount of \$1,763,111.51 and to exercise the second one (1) year renewal option for the continued performance of professional planning and design services related to the approved Palm Beach County Airports Capital Improvement Program.

Summary: The Consulting Agreement with AECOM for general airport planning and design was approved by the Board on March 12, 2019 (R-2019-0301) in the amount of \$828,984.74 in order to carry out the approved Capital Improvement Programs for the County's Airports. Amendment No. 1 was approved by the Board on August 20, 2019 (R-2019-1160) increasing the amount of the contract by \$1,032,651.29. Amendment No. 2 was approved by the Board on February 4, 2020 (R-2020-0079) increasing the amount of the contract by \$1,753,356.78. Amendment No. 3 was approved by the Board on June 16, 2020 (R-2020-0639) increasing the amount of the contract by \$885,789.10. Amendment No. 4 was approved by the Board on October 6, 2020 (R-2020-1514) increasing the amount of the contract by \$1,789,325.00 and modified Article 21, Access and Audits, of the agreement. Amendment No. 5 was approved on February 9, 2021 (R-2021-0233) exercising the first one (1) year renewal option. Amendment No. 6 was approved by the Board on August 17, 2021 (R-2021-1160) increasing the amount of the contract by \$1,583,691.58. Approval of Amendment No. 7 will allow the County, at its sole discretion, to exercise the second one-year renewal option for the continuation of services provided under this agreement and will provide an additional \$1,763,111.51 to complete the following tasks: Task I Services – Palm Beach County Park Airport (LNA) Fence and Security Improvements Construction Administration (CA)/Construction Management (CM) Services; Palm Beach International Airport (PBI) Vehicle Service Road Relocation CA/CM Services; PBI Hold Position and Runway Guard Lights CA/CM Services; Palm Beach County Glades Airport (PHK) Runway 18-36 and Taxiway Rehabilitation CA/CM Services; Palm Beach County Department of Airports Minimum Standards and Rules; LNA and North Palm Beach County General Aviation Airport (F45) Precision Approach Path Indicators Replacement; PBI Airfield Electrical Vault Expansion; PBI Chiller 4 and 5 Replacement CA Services; Miscellaneous Planning & Engineering Services 2022; PBI Cargo Expansion – Preliminary Planning; and Task III Services - Miscellaneous Planning and Engineering Services. Work to be completed under these Task III Services will be issued in accordance with PPM CW-F-050, by way of a separate proposal or task authorization. AECOM is a Los Angeles, California based firm; however, the majority of the work to be completed in this agreement will be completed and/or managed through their West Palm Beach and Tampa, Florida offices in conjunction with several Palm Beach County-based sub-consultants and firms. A Disadvantaged Business Enterprise (DBE) goal of 18% was set for this contract. AECOM committed to 18% in its proposal. The anticipated DBE participation based upon the approved tasks is approximately 27.98%. The current paid to date DBE participation is approximately 14.21%. The DBE participation for this Amendment is approximately 21%. Pursuant to changes to Chapter 332, Florida Statutes, effective October 1, 2020, a governing body of a commercial service airport may not approve purchases of contractual services in excess of the Category Five threshold amount of \$325,000 provided in Section 287.017, Florida Statutes, on a consent agenda. This amendment exceeds the threshold amount and must be approved on the regular agenda. Countywide (AH)

Background and Policy Issues: (continued on Page 3)

Attachments:

- 1. Amendment No. 7 with AECOM Technical Services, Inc. – 2 Originals
- 2. DBE Goal Information

Recommended By: Mrs. Diana Burke 1-13-22
Department Director Date

Approved By: Donna M. Miller for 1/18/2022
County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures	\$1,763,112	_____	_____	_____	_____
Operating Costs	_____	_____	_____	_____	_____
External Revenues (Grants)	(\$306,767)	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
NET FISCAL IMPACT	\$1,456,345	=====	=====	=====	=====

ADDITIONAL FTE POSITIONS (Cumulative) _____

Is Item Included in Current Budget? Yes X No _____
Does this item include the use of federal funds? Yes X No _____

Budget Account No: Fund 4111 Department 121 Unit A107 Object 6505
Reporting Category _____ A372 6504
A411 6504
A435 6505

(JP)

B. Recommended Sources of Funds/Summary of Fiscal Impact:

Approval of this item provides budget for the AECOM contract in the amount of \$1,763,111.51. Funding sources consist of FDOT grant revenues of \$197,980; FAA revenues of \$108,787; and airport revenues of \$1,456,345. All revenues are in the current budget.

C. Departmental Fiscal Review: Webb W. Duncanson

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

 Lore Munte 11/14/21
OFMB 11/13/22

 A. J. Janssen
Contract Dev. and Control 11/18/22
 1-18-22 TW

B. Legal Sufficiency:

 A. J. Janssen 11/18/22
Assistant County Attorney

C. Other Department Review:

Department Director

REVISED 11/17

(THIS SUMMARY IS NOT TO BE USED AS A BASIS FOR PAYMENT)

Background and Policy Issues: (continued from page 1)

In order to carry out the approved Capital Improvement Program for the County, the Department of Airports requires professional planning and design engineering services. This agreement is for 2 years with 2 one (1) year renewal options. This amendment allows for the continuation of services necessary for the development and operation of the County's airport system.



AECOM Technical Services, Inc. 213.593.8100 tel
300 South Grand Avenue 213.593.8730 fax
9th Floor
Los Angeles, CA 90071
www.aecom.com

SECRETARY'S CERTIFICATE

AECOM TECHNICAL SERVICES, INC. a California corporation

I, Charles F. Szurgot, DO HEREBY CERTIFY that I am the duly elected and acting Secretary of AECOM Technical Services, Inc., a corporation organized under the laws of the State of California ("ATS" or "Corporation"), and the keeper of its records and corporate seal.

I FURTHER CERTIFY that ATS's full legal address is c/o CT Corporation System, 818 West 7th Street, Los Angeles, CA 90017-0000 and that the Corporation's principal place of business is 300 South Grand Avenue, 9th Floor, Los Angeles, California 90071.

I FURTHER CERTIFY that pursuant to the Written Consent of the Board of Directors of ATS, adopted on October 8, 2018, and attached hereto as Exhibit A, Andrew Kacer has signatory authority for ATS and is authorized to execute contracts and other documents on behalf of the Corporation.

IN WITNESS WHEREOF, I have subscribed my name and affixed the seal of the Corporation, this 18th day of January, 2019.

Charles F. Szurgot
Secretary



**UNANIMOUS ACTION OF THE BOARD OF DIRECTORS
OF
AECOM TECHNICAL SERVICES, INC.**

The undersigned, being all the members of the Board of Directors of AECOM TECHNICAL SERVICES, INC. (the "Corporation"), a California corporation, hereby take the following action:


RESOLVED: That the previous elections of Signatories and Supplemental Signatories of the Corporation dated August 23, 2018, be superseded in its entirety; and

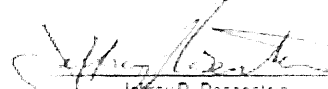
RESOLVED: That, in addition to all Senior Vice Presidents and above as set forth in Article IX, Section 16 of the Restated By-Laws as amended, the following U.S. based persons are designated with authority by the Board of Directors to execute contracts and other legal documents on behalf of the Corporation within the boundaries of specific Regions and Business Lines as noted and effective as of the dates set forth below:

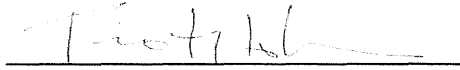
Effective October 8, 2018:

Last Name	First Name	Region	Area/Market Sector	Business Line
Kacer	Andrew	Southeast	Greater Florida	Transportation

IN TESTIMONY WHEREOF, all the Directors have hereunto set their hands this 8th day of October, 2018.


David Gan


Jeffrey P. Rosenstein


Timothy Keener

**AMENDMENT NO. 7 TO CONTRACT
BETWEEN
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS
AND
AECOM TECHNICAL SERVICES, INC.
FOR
GENERAL CONSULTING SERVICES
AT
PALM BEACH COUNTY AIRPORTS**

This Amendment No. 7 to the Contract is made as of the _____ day of _____, 2022, by and between Palm Beach County, Florida (COUNTY) and AECOM TECHNICAL SERVICES, INC., a corporation authorized to do business in the State of Florida, hereinafter referred to as the CONSULTANT, whose Federal Tax I.D. number is 95-2661922.

WITNESSETH

WHEREAS, on March 12, 2019, the County entered into an Agreement (R2019-0301) with the CONSULTANT for the CONSULTANT to provide General Airport Consulting Services for the Palm Beach County Department of Airports, for a period of two (2) years, with two (2) one (1)-year renewal options, the exercise of which are within COUNTY'S sole control and discretion; and

WHEREAS, on August 20, 2019, the County entered into an Amendment No. 1 (R2019-1160) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on February 10, 2020, the County entered into an Amendment No. 2 (R2020-0079) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on June 16, 2020, the County entered into an Amendment No. 3 (R2020-0639) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on October 6, 2020, the County entered into an Amendment No. 4 (R2020-1514) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on February 9, 2021, the COUNTY entered into an Amendment No. 5 (R2021-0233) with the CONSULTANT to exercise the first one (1) year renewal option for the continuation of services and to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on August 17, 2021, the County entered into an Amendment No. 6 (R2021-1160) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, Article 25 of the Contract requires an amendment when the parties are able to define additional services and the parties have now defined those services;

NOW THEREFORE, in consideration of the mutual covenants herein contained, and such other good and valuable consideration, the receipt of which the parties hereby acknowledge, the parties agree to the following terms and conditions:

1. The parties hereby agree to amend the Contract to include the Scope of Services and Fees as outlined in Exhibit A. The total amount to be paid by the COUNTY to the CONSULTANT for professional services, including any out of pocket expenses, shall not exceed One Million Seven Hundred and Sixty Three Thousand One Hundred and Eleven Dollars and Fifty One Cents (**\$1,763,111.51**) for the services in Amendment No. 7 to the original Contract.
2. The parties agree to amend the Contract to include the final one (1) year renewal option for the continuation of services provided by the CONSULTANT under this Contract.
3. Except as specifically amended herein, all other terms and conditions of the Contract shall remain in full force and effect.

{Remainder of page intentionally left blank.}

IN WITNESS WHEREOF, the parties have caused the Seventh Amendment to the Contract to be signed by the Mayor of the Board of County Commissioners and the Seal of said Board to be fixed hereto and attested by the Clerk of said board, and the CONSULTANT, AECOM TECHNICAL SERVICES, INC., has caused these presents to be signed in its corporate name by its duly authorized officer Andrew Kacer, Vice President, acting on behalf of said CONSULTANT, and the Seal of said CONSULTANT to be affixed hereto and attested by the Secretary of said CONSULTANT, the day and year first written above.

ATTEST:

PALM BEACH COUNTY, FLORIDA
BOARD OF COUNTY COMMISSIONERS

JOSEPH ABRUZZO
CLERK OF THE CIRCUIT COURT
& COMPTROLLER

By: _____
Deputy Clerk

By: _____
Robert S. Weinroth, Mayor

WITNESS:

CONSULTANT:

DocuSigned by:
Alejandra Schmidt

9126E9E9B6E488
SIGNATURE

AECOM Technical Services, Inc.
COMPANY NAME

Alejandra Schmidt
Name (type or print)

DocuSigned by:
Andrew Kacer

280A7DB3638D411...
Signature

Andrew Kacer
Name (type or print)

Vice President
Title

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

BY: _____
County Attorney

APPROVED AS TO TERMS
AND CONDITIONS

By: *Diana Buba*

Department Director

AMENDMENT NO. 7 INDEX

CERTIFICATE OF INSURANCE

EXHIBIT A: AMENDMENT NO. 7

EXHIBIT A-1	Task I-22-LNA-A-054: LNA Fence and Security Improvements (CM/CA)
EXHIBIT A-2	Task I-22-PBI-A-055: PBI Vehicle Service Road Relocation CM/CA/RPR
EXHIBIT A-3	Task I-22-PBI-A-056: Hold Position and RGLs at RW 10R-28L and TW R1 (CM/CA/RPR)
EXHIBIT A-4	Task I-22-PHK-A-057: PHK Runway 18-36 and Taxiway Rehabilitation (CM/RPR/CA)
EXHIBIT A-5	Task I-22-DOA-A-058: PBCDOA Minimum Standards and Rules
EXHIBIT A-6	Task I-22-DOA-A-059: LNA and F45 PAPIs Replacement
EXHIBIT A -7	Task I-22-PBI-A-060: PBI Airfield Electric Vault Building Expansion
EXHIBIT A-8	Task I-22-PBI-A-061: PBI Chiller 4 and 5 Replacement (CA Services)
EXHIBIT A-9	Task I-22-PBI-A-062: Miscellaneous Planning & Engineering Services 2022
EXHIBIT A-10	Task I-22-PBI-A-063: PBI Cargo Expansion

EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS

EXHIBIT B-I Summary of Fees

EXHIBIT B-II Schedule of Payments

EXHIBIT C: PROPOSED SCHEDULES

EXHIBIT D: DBE

AECOM Technical Services, Inc.
7650 West Courtney Campbell Causeway
Tampa, FL 33607. Phone: 813-636-2425 Fax: 813-287-8591



CERTIFICATE OF INSURANCE



**Palm Beach County
Compliance Summary Report**

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00000660	AECOM Technical Services Inc.	Modified	Compliant					DOA 18-1	Consulting Professional Services
		A++g , XV	ACE American Insurance Company	ISAH25549211	4/1/2021	4/1/2022	Auto Liability		
		A++g , XV	ACE American Insurance Company	HDOG72486304	4/1/2021	4/1/2022	General Liability		
		A++g , XV	Illinois Union Insurance Company	EONG21654693005	4/1/2021	4/1/2022	Professional Liability		
		A++g , XV	Indemnity Insurance Company of North America	WLRC67806025	4/1/2021	4/1/2022	Workers Comp		

Risk Profile : Standard - Professional Services
Required Additional Insured : Palm Beach County Board of County Commissioners
Ownership Entity :

EXHIBIT A

This Amendment No. 7 is in accordance with the Contract (Agreement R-2019-0301) for Consultant/Professional Services between Palm Beach County (COUNTY) and AECOM Technical Services, Inc. (CONSULTANT) dated March 12, 2019.

- | | |
|--------------|---------------------------------------------------------------------------------|
| EXHIBIT A-1 | Task I-22-LNA-A-054: LNA Fence and Security Improvements (CM/CA) |
| EXHIBIT A-2 | Task I-22-PBI-A-055: PBI Vehicle Service Road Relocation CM/CA/RPR |
| EXHIBIT A-3 | Task I-22-PBI-A-056: Hold Position and RGLs at RW 10R-28L and TW R1 (CM/CA/RPR) |
| EXHIBIT A-4 | Task I-22-PHK-A-057: PHK Runway 18-36 and Taxiway Rehabilitation (CM/RPR/CA) |
| EXHIBIT A-5 | Task I-22-DOA-A-058: PBCDOA Minimum Standards and Rules |
| EXHIBIT A-6 | Task I-22-DOA-A-059: LNA and F45 PAPIs Replacement |
| EXHIBIT A -7 | Task I-22-PBI-A-060: PBI Airfield Electric Vault Building Expansion |
| EXHIBIT A-8 | Task I-22-PBI-A-061: PBI Chiller 4 and 5 Replacement (CA Services) |
| EXHIBIT A-9 | Task I-22-PBI-A-062: Miscellaneous Planning & Engineering Services 2022 |
| EXHIBIT A-10 | Task I-22-PBI-A-063: PBI Cargo Expansion |

EXHIBIT A-1

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-1

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach County Park Airport (LNA)

Task I-22-LNA-A-54 LNA Fence and Security Improvements (CM/CA)

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-22-LNA-A-54 LNA Fence and Security Improvements CM/CA (Project) at Palm Beach County Park Airport (LNA). The scope of work for this Project includes providing Construction Administration (CA) and Construction Management (CM) of this Project.

PROJECT OBJECTIVE AND APPROACH

The objective of this project is to update the security of LNA by providing the airport with a 12,500 ft long, seven (7) ft high galvanized chain link fence with barbed wire. This project also includes installation of an electronic vehicle slide gate, three (3) electronic pedestrian gates, a card access reader, cameras, miscellaneous electrical work, installation of four (4) manual vehicle swing gates, and one (1) manual pedestrian gate.

Procurement shall consist of materials procurement and mobilization for a period of sixty (60) Calendar Days from the Notice to Proceed (NTP). Project construction will be for a period of ninety (90) Calendar Days from the completion of the Procurement phase to substantial completion. Final acceptance shall be achieved within a period of Thirty (30) Calendar Days from the date of substantial completion.

Task I – CA Services

AECOM will provide CA Services throughout the scheduled construction of this Project and will include the following:

- A. Conferences and Meetings: Attend and facilitate meetings between Owner, Contractor(s), and Stakeholders, such as preconstruction meeting, kick-off meeting, progress meetings (a maximum of (7) seven bi-weekly construction progress meetings), job conferences and other project related meetings. Meeting Minutes for all formal meetings will be prepared by AECOM;
- B. Conformed Documents: Prepare (6) sets of Conformed Contract Plans and Specifications for Contract Execution. Prepare (6) sets of Executed Contract Documents for Construction, (3) for DOA, and (3) for the Contractor. Prepare a CD with Deliverables;
- C. Review Contractor's Maintenance of Traffic Plans;
- D. Review Contractor's Critical Path Schedule;
- E. Review Contractor's Security Plans;

- F. Shop Drawings: Review and approve shop drawings prior to the beginning of construction activities. Develop and maintain a log that summarizes status of all shop drawings;
- G. Interpretation and clarification of Contract Documents: Respond to various Requests for Information, Job memoranda, and other field prepared inquiries;
- H. Records: Maintain electronic files of correspondence, meeting minutes, shop drawings and Contract Documents including all work directive changes, addenda, change orders, field orders, additional drawings issued subsequent to the execution of the contract, clarifications and interpretations of the Contract Documents, progress reports and other project related documents;
- I. Payment Requests: Review applications for payment with quantities observed and forward recommendations to the DOA;
- J. AECOM will be responsible for preparation, processing, review and document control of Change Orders, Field Instructions, Field Bulletins, Construction Change Proposals and Directives, and Notices of Non-Compliance;
- K. Task Management and Coordination: Coordinate as needed with FAA, DOA Operations, FWC, and other Project stakeholders;
- L. AECOM will review Contractor the Record Documents for completeness and obvious errors based on readily available information to the AECOM. The AECOM will provide comments prior to acceptance of the Contractor's Record Documents;
- M. AECOM will use all readily available information including the Contractor's As-builts to prepare Record Drawings for the completed work; and
- N. Project Close-out Activities: AECOM will prepare Certificate of Substantial Completion, and other Project related Close-out activities.

Task II – CM Services

As Part of this task, AECOM will perform the following services as part of CM:

- A. AECOM will perform Pre-Construction Inspection and take photographs of the Project Site in collaboration with the Contractor and the DOA to document existing site conditions. All areas where the Contractor is expected to impact including the: Project Work Areas, Haul Roads, Access Gates, Staging Areas, and Stockpile Locations will be documented;
- B. Review Contractor's record survey data as it is developed for existing conditions to evaluate conformance with design;
- C. Full Time RPR Services: AECOM will provide periodic weekly inspections (twelve (13) weeks, forty hours a week);
- D. AECOM will review Guarantees, Warranties, Certifications, and Operation & Maintenance Manuals provided by the Contractor;
- E. Substantial and Final Completion: Conduct substantial and final completion inspection in the company of the DOA, and develop a substantial and final punch list of items in conjunction with Owner to be completed or corrected; and,
- F. Provide Construction Support Services to DOA during the performance of the Project.

Task III – Gopher Tortoise Penning

AECOM will provide the required services for penning the gopher tortoises on-site for a maximum of 10 days to allow the Contractor to complete work within the areas of active gopher tortoise burrows. Based on the results of the survey conducted in 2021, we have estimated that there are up to 18 burrows within the construction limits, resulting in a population size of 9 tortoises that could require relocation authorized by the FWC Conservation Permit.

The Contractor will be responsible for the installation of filter fabric (silt fencing) or other comparable fencing (buried at least eight inches deep) as shown in the plans. The installation of silt fencing must be completed prior to the inception of AECOM's tortoise capture activities. AECOM Certified Gopher Tortoise Agents will manage the capture and relocation of gopher tortoises based on the FWC relocation permit obtained for the site, AECOM will perform the following services:

- A. Coordinate with the site contractor to establish a timeline that coincides with projected construction sequencing; determine if burrows conflict with established utilities and excavate burrows using the hand/shovel method.
- B. An AECOM Vendor, who is Authorized Agent for gopher tortoise excavation will excavate at the direction of the AECOM on-site personnel.
- C. Supervise the excavation of burrows within the project area and capture any gopher tortoises and commensals found in the burrows or within the project area for relocation. Weigh, measure, and permanently mark each captured gopher tortoise for identification prior to relocation in accordance with the FWC guidelines.
- D. Temporary pen the excavated gopher tortoises to a location on site.
- E. Prepare a post-relocation report for submittal to the FWC that will document the results of the gopher tortoise relocation effort.

PROJECT SCHEDULE

AECOM is scheduled to complete this project within 180 Calendar Days following receipt of the Notice to Proceed.

PROJECT DELIVERABLES

Project Deliverables are as described in the above mentioned Tasks I, II, and III.

PROJECT ASSUMPTIONS

1. AECOM shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. AECOM shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.
2. AECOM does not have the authority to prepare and/or issue NOTAMs and as a result, this task will be the responsibility of the DOA.
3. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform all other construction related services that are not listed.
4. In the event that the DOA and the AECOM believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by the AECOM, a separate Task

Authorization, which specifies the proposed scope of services to be performed, will be prepared.

5. AECOM understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. AECOM shall not have the authority or responsibility to accept or reject work done by the Contractor and is only responsible for providing recommendations to the DOA based on the available information.

Exhibit B-1

Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-22-LNA-A-54 LNA Fence and Security Improvements CM/CA

Billing Rate:	\$ 340	\$ 181	\$ 247	\$ 182	\$ 120	\$ 97
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Task Description		Labor Estimate (Hours)							Fee Estimate (\$)				
		Principal	QC Reviewer	Senior Project Manager	Construction Manager	Project Engineer	RPR	Total	Labor	Expenses	Total		
Task I-22-LNA-A-54 LNA Fence and Security Improvements CM/CA													
1.0	CONSTRUCTION ADMINISTRATION SERVICES (LUMP SUM + REIM.)	Total	0	8	18	72	163	4	265	\$36,946	\$600	\$39,546	
A	Pre-Construction Conference				2	2			4	\$ 858	\$ 200	\$ 1,058	
A	Construction Team Meeting / Kick-Off Meeting				1	1	1		3	\$ 549		\$ 549	
A	Bi-Weekly Progress Meetings (7 Const. Meetings)				4	7	14		25	\$ 3,942		\$ 3,942	
A	Pre-Activity Construction Meetings (2 @ 4 hrs/ea)				2	2	8		10	\$ 1,324	\$ 400	\$ 1,724	
B	Prepare Conformed and Executed Contract Documents				2	1	2	2	19	\$ 2,607		\$ 2,607	
C	Review Contractor's MOT Plans				1	3			4	\$ 793		\$ 793	
D	Review Contractor's Critical Path Schedule					2			2	\$ 364		\$ 364	
E	Review Contractor's Security Plans					2			2	\$ 364		\$ 364	
F	Process Review and Approve Shop Drawings and Submittals				2	2	12	28	44	\$ 6,400		\$ 6,400	
F	Process Review and Approve Shop Drawings and Re-Submittals				1	4	8		13	\$ 1,935		\$ 1,935	
G	Interpretation and Clarification of Contract Documents/RFI's				1	8	32		41	\$ 5,543		\$ 5,543	
H	Establish and Maintain Project Records				1	2	4	2	9	\$ 1,285		\$ 1,285	
I	Review Applications for Payment					3	6		9	\$ 1,266		\$ 1,266	
J	Preparation of Change Orders, Notices of Non-Compliance etc...				2	8	16		26	\$ 3,870		\$ 3,870	
K	Task management and Co-ordination				2	2			4	\$ 858		\$ 858	
L	As Built Review					4	4		8	\$ 1,208		\$ 1,208	
M	Prepare Record Drawings				4	2	24		30	\$ 3,968		\$ 3,968	
O	Project Closeout					6	6		12	\$ 1,812		\$ 1,812	
2.0	CONSTRUCTION MANAGEMENT (T&M + REIM.)	Total	0	0	4	24	138	500	666	\$70,416	\$200	\$70,616	
A	Pre-Construction Inspection & Photographs					4	4		8	\$ 1,208	\$ 200	\$ 1,408	
B	Review QA Survey Results					4	4		8	\$ 1,208		\$ 1,208	
D	Full Time Inspections(Full time, 50 hrs/week, 12 Weeks)						100	500	600	\$ 60,500		\$ 60,500	
E	Review Guarantees, Warranties, Certifications, and O&M Manuals				2	2	2		6	\$ 1,098		\$ 1,098	
F	Substantial and Final Completion Inspection				2	4	8		14	\$ 2,182		\$ 2,182	
G	Construction Support Services					10	20		30	\$ 4,220		\$ 4,220	
3.0	GOPHER TORTOISE PENNING (LUMP SUM + REIM.)	Total	0	0	3	32	18	0	53	\$ 8,725	\$ 400	\$ 9,125	
A	Coordinate with Site Contractor				2	4	4		10	\$ 1,702		\$ 1,702	
C	Supervise the Excavation of Burrows (Weight, Measure, and Mark each Gopher Tortoise)					20	6		26	\$ 4,360	\$ 400	\$ 4,760	
E	Prepare a Post Relocation Report for Submittal to FWC				1	8	8		17	\$ 2,663		\$ 2,663	
Total Fee - AECOM Technical Services, Inc.			0	8	25	128	319	504	984	\$ 118,087	\$ 1,200	\$ 119,287	
Subconsultant Fees Task 1.0													
1 Gopher Tortoises Services, Inc. Fee - (Expense)			\$ 300									Lump Sum	\$61,471
Gopher Tortoises Services, Inc. Fee - (LS)			\$ 3,800									T&M	\$70,416
											Expenses	\$1,500	
											Total	\$123,387	
Total Fee - Subconsultants			\$ 4,100										
GRAND TOTAL FEE - BASIC ENGINEERING SERVICES			\$ 123,387										

Prepared by: AECOM Technical Services, Inc.

Quote

Gopher Tortoise Services Inc.

10646 Marianne Lane
 New Port Richey, FL 34654
 (727) 861-5013

Invoice Number: 847595
 Invoice Date: 5/12/2021
 Terms: Net 30

Bill To:
AECOM 150 North Orange Ave Suite 200 Orlando, FL 32801

Agent Permit Number

Project	FWC Permit	Site Address	Locate	Order#	Project ID
	GTT-21-00638	Cape Coral	Palm Beach		

Quantity	Description	Unit Price	Amount
	Lantana Airport Fence Installation project site located on 2633 Lantana Rd.		
1	Mobilization Equipment	250.00	250.00
1	Day-Rate Backhoe and Operator	1,400.00	1,400.00
1	Daily per diem - Lodging, meals, incidentals	150.00	150.00
1	Demobilization Equipment	250.00	250.00
1	Mobilization Equipment	250.00	250.00
1	Day-Rate Equipment and Operator	1,400.00	1,400.00
1	Daily per diem - Lodging, meals, incidentals	150.00	150.00
1	Mobilization Equipment	250.00	250.00

Total Amount	\$4,100.00
Payments/Credits	\$0.00
Balance Due	\$4,100.00

Let us know if you need anything or have any questions!

EXHIBIT A-2

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-2

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)

Task I-22-PBI-A-55 PBI Vehicle Service Road Relocation CM/CA/RPR

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-22-PBI-A-55 PBI Vehicle Service Road Relocation CM/CA/RPR Project (Project) at Palm Beach International Airport (PBI). The scope of work for this Project includes providing Construction Management (CM), Construction Administration (CA), and Resident Project Representative Services (RPR) services for this Project.

PROJECT OBJECTIVE AND APPROACH

This task will be carefully coordinated by the Team provided below:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	Project Management, civil design, development of base sheets, coordination between disciplines and quality review
Tierra South Florida, Inc. (SUBCONTRACTOR)	Geotechnical Services

The objective of this project is to relocate a portion of the Vehicle Service Road (VSR) to outside of Runway 10L-28R Object Free Area (ROFA) Limits. The road relocation will include full depth removal of the section of VSR that is inside of the 10L-28R ROFA.

Procurement shall consist of materials procurement and mobilization for a period of sixty (60) Calendar Days from the Notice to Proceed (NTP). Project construction will be for a period of sixty (60) Calendar Days from the completion of the Procurement phase to substantial completion. Final acceptance shall be achieved within a period of Thirty (30) Calendar Days from the date of substantial completion.

Task I – CA Services

AECOM will provide CA Services throughout the scheduled construction of this Project and will include the following:

- A. Conferences and Meetings: Attend and facilitate meetings between Owner, Contractor(s), and Stakeholders, such as preconstruction meeting, kick-off meeting, progress meetings (a maximum of (5) five bi-weekly construction progress

- meetings), job conferences and other project related meetings. Meeting Minutes for all formal meetings will be prepared by AECOM;
- B. Conformed Documents: Prepare (6) sets of Conformed Contract Plans and Specifications for Contract Execution. Prepare (6) sets of Executed Contract Documents for Construction, (3) for DOA, and (3) for the Contractor. Prepare a CD with Deliverables;
 - C. Review Contractor's Maintenance of Traffic Plans;
 - D. Review Contractor's Critical Path Schedule;
 - E. Review Contractor's Security Plans;
 - F. Shop Drawings: Review and approve shop drawings prior to the beginning of construction activities. Develop and maintain a log that summarizes status of all shop drawings;
 - G. Interpretation and clarification of Contract Documents: Respond to various Requests for Information, Job memoranda, and other field prepared inquiries;
 - H. Records: Maintain electronic files of correspondence, meeting minutes, shop drawings and Contract Documents including all work directive changes, addenda, change orders, field orders, additional drawings issued subsequent to the execution of the contract, clarifications and interpretations of the Contract Documents, progress reports and other project related documents.
 - I. Payment Requests: Review applications for payment with quantities observed and forward recommendations to the DOA;
 - J. Periodic Inspection Services: AECOM construction manager and EOR will provide periodic inspections (bi-weekly inspections);
 - K. AECOM will be responsible for preparation, processing, review and document control of Change Orders, Field Instructions, Field Bulletins, Construction Change Proposals and Directives, and Notices of Non-Compliance;
 - L. Task Management and Coordination: Coordinate as needed with FAA, DOA Operations, SFWMD, and other Project stakeholders;
 - M. AECOM will review Contractor the Record Documents for completeness and obvious errors based on readily available information to the AECOM. The AECOM will provide comments prior to acceptance of the Contractor's Record Documents;
 - N. AECOM will use all readily available information including the Contractor's As-builts to prepare Record Drawings for the completed work; and
 - O. Project Close-out Activities: AECOM will prepare Certificate of Substantial Completion, and other Project related Close-out activities.

Task II – CM/RPR Services

As Part of this task, AECOM will perform the following services as part of CM/RPR:

- A. AECOM will perform Pre-Construction Inspection and take photographs of the Project Site in collaboration with the Contractor and the DOA to document existing site conditions. All areas where the Contractor is expected to impact including the: Project Work Areas, Haul Roads, Access Gates, Staging Areas, and Stockpile Locations will be documented;
- B. Review Contractor's record survey data as it is developed for existing conditions to evaluate conformance with design;
- C. CONSULTANT will review Contractor Daily Reports;

- D. QA Materials Testing: Provide materials testing for construction activities. This includes verifying that the base and subgrade compaction and materials meet FDOT requirements. Facilitate meeting at onset of Project outlining material testing requirements, as outlined in the contract documents, with materials testing personnel, RPR, and the Contractor.
- E. CONSULTANT will review QA Materials Test Results and Laboratory Reports performed by responsible Subconsultant;
- F. RPR Services: CONSULTANT will provide periodic RPR services (up to 80 hours) to supplement DOA full time RPR services with on-site observations of the quality and progress of the contractor's work in-order to determine if the construction is proceeding in accordance with the Contract Documents. The RPR's efforts will be directed toward determining whether the constructed project conforms to the Contract Documents. These RPR Services will include developing Daily Reports, monitoring the Contractor's progress, serving as the Owner's liaison with the Contractor, coordinating materials testing, and conducting on-site observations of the construction activities in progress to assist in determining if the work is being carried out in compliance with the Contract Documents;
- G. AECOM will review Guarantees, Warranties, Certifications, and Operation & Maintenance Manuals provided by the Contractor;
- H. Substantial and Final Completion: Conduct substantial and final completion inspection in the company of the DOA, and develop a substantial and final punch list of items in conjunction with Owner to be completed or corrected; and,
- I. Provide Construction Support Services to DOA during the performance of the Project.

PROJECT SCHEDULE

AECOM is scheduled to complete this project within 150 Calendar Days following receipt of the Notice to Proceed.

PROJECT DELIVERABLES

Project Deliverables are as described in the above-mentioned Tasks I and II.

PROJECT ASSUMPTIONS

1. AECOM shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. AECOM shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.
2. AECOM does not have the authority to prepare and/or issue NOTAMs and as a result, this task will be the responsibility of the DOA.
3. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform services that are not listed.
4. In the event that the DOA and the AECOM believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by the AECOM, a separate Task

Authorization, which specifies the proposed scope of services to be performed, will be prepared.

5. AECOM understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. AECOM shall not have the authority or responsibility to accept or reject work done by the Contractor and is only responsible for providing recommendations to the DOA based on the available information.

Exhibit B
Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-22-PBI-A-55 PBI Vehicle Service Road Relocation CM/CA/RPR

Billing Rate: \$ 97 | \$ 181 | \$ 247 | \$ 182 | \$ 120 | \$ 90

Task Description	Labor Estimate (Hours)							Fee Estimate (\$)			
	Resident Project Representative (RPR)	QC Reviewer	Senior Project Manager	Construction Manager	Project Engineer	Clerical	Total	Labor	Expenses	Total	
Task I-22-PBI-A-055 PBI Vehicle Service Road Relocation CM/CA/RPR											
1.0 CONSTRUCTION ADMINISTRATION SERVICES (LUMP SUM + REIM.)	Total	44	8	20	71	133	4	280	\$39,898	\$2,200	\$42,098
A Pre-Construction Conference				2	2			4	\$ 858		\$ 858
A Construction Team Meeting / Kick-Off Meeting				1	1	1		3	\$ 549		\$ 549
A Bi-Weekly Progress Meetings (5 Const. Meetings)				2	10			12	\$ 2,314	\$ 1,000	\$ 3,314
A Pre-Activity Construction Meetings (2 @ 4 hrs/ea)					2	2		4	\$ 604		\$ 604
B Prepare Confirmed and Executed Contract Documents		2		1	2	8		13	\$ 1,933		\$ 1,933
C Review Contractor's MOT Plans				1	1			2	\$ 429		\$ 429
D Review Contractor's Critical Path Schedule				1	2			3	\$ 611		\$ 611
E Review Contractor's Security Plans					1			1	\$ 182		\$ 182
F Process Review and Approve Shop Drawings and Submittals		2		2	4	8		16	\$ 2,544		\$ 2,544
F Process Review and Approve Shop Drawings and Re-Submittals				1	2	4		7	\$ 1,091		\$ 1,091
G Interpretation and Clarification of Contract Documents/RFIs				1	4	4		9	\$ 1,455		\$ 1,455
H Establish and Maintain Project Records					2	2	2	6	\$ 784		\$ 784
I Review Applications for Payment					2	2		4	\$ 604		\$ 604
J Periodic Inspections (Bi-weekly)					8	16		24	\$ 3,376		\$ 3,376
K Preparation of Change Orders, Notices of Non-Compliance etc...				2	2	2		6	\$ 1,098		\$ 1,098
L Task management and Co-ordination				2	2			4	\$ 858		\$ 858
M As Built Review					2	2		4	\$ 604		\$ 604
N Prepare Record Drawings		4			2	16		22	\$ 3,008		\$ 3,008
O Project Closeout					2	2	2	6	\$ 784		\$ 784
P Pre-Construction Inspection & Photographs	4					4		8	\$ 868	\$ 200	\$ 1,068
Q Review QA Survey Results					4	4		8	\$ 1,208		\$ 1,208
R Periodic and Full Time Inspections (Supplement DOA Oversight)	40					40		80	\$ 8,680	\$ 1,000	\$ 9,680
S Review Guarantees, Warranties, Certifications, and O&M Manuals				2	2			4	\$ 858		\$ 858
T Substantial and Final Completion Inspection				2	4	8		14	\$ 2,182		\$ 2,182
U Construction Support Services					8	8		16	\$ 2,416		\$ 2,416
Total Fee - AECOM Technical Services, Inc.		44	8	20	71	133	4	280	\$ 39,898	\$ 2,200	\$ 42,098

Subconsultant Fees Task 1.0

1	TSF (T&M)	\$ 3,355
	TSF (Expenses)	

Lump Sum	\$39,898
T&M	\$3,355
Expenses	\$2,200
Total	\$45,453

Total Fee - Subconsultants \$ 3,355

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 45,453

Prepared by: AECOM Technical Services, Inc.



Revised January 7, 2022
November 5, 2021
May 17, 2021

Mr. Andy Kacer, P.E.
AECOM
7650 West Courtney Campbell Causeway
Tampa, Florida 33607
Email: andy.kacer@aecom.com
Phone: 352-634-4363

**Re: Proposal for Construction Materials Testing Services
Proposed Vehicle Service Road Relocation
Palm Beach International Airport
West Palm Beach, Florida
TSFGEO Proposal No.: 2105-341 Rev 3**

Dear Andy:

TSFGEO is pleased to submit the proposal for providing Construction Material Testing Services for the above referenced project in Palm Beach County, Florida.

Our proposal is based on construction documentation provided to this office. We understand that the project will include construction of a new 670 feet of vehicle service road and 170 ft of new 18-inch RCP and an inlet. Work elements include but not limited to asphalt pavement removal, milling of asphalt pavement, clearing, grubbing, excavation, Pipe backfill, grading (subgrade, subbase, base), and paving.

The following scope of services will be required at this project:

- Density tests (using nuclear density methods) on pipe backfill, embankment, backfill along with representative Proctor tests, gradation, Atterberg Limits and organic content tests;
- Density tests (using nuclear density methods) on stabilized subgrade material, along with representative LBR tests, gradation and Atterberg Limits tests;
- Issue daily reports in FDOT format to Civil Designer.

TSFGEO will provide experienced technical personnel to perform the necessary testing and inspection services in accordance with the project specifications. We propose to accomplish the scope of our services on a unit rate basis in accordance with the attached fee breakdown. TSFGEO's fees will be determined by the actual amount of technical time expended for this project and the amount of laboratory testing performed.

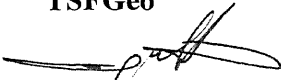
TSFGeo's laboratory and personnel fully comply with the standards of ASTM, ACI, AASHTO, AISC, AWS, FDOT, and FAA standards. Our laboratory maintains CMEC and FDOT certification and is staffed by experienced and certified field and laboratory personnel. In addition, we are currently providing similar services in vicinity airports and are very familiar with the general site conditions as well as the local construction practices.

ESTIMATED COST

We proposed to accomplish the above services on a rate schedule basis using the attached rates for an estimated amount of \$ **3,355.00**

We appreciate the opportunity to offer our services for your project. Should you have any questions or need additional information, do not hesitate to contact me at (561) 687-8536.

Respectfully submitted,
TSFGeo



Raj Krishnasamy, P.E.
President

Attachments: Unit Fee Schedule

**Fees Breakdown for
Construction Materials Testing Services**

I Laboratory Testing Services

Moisture-Density (Modified Proctor Test), 2 tests @ \$105.00/each	\$ 210.00
LBR Tests-subbase and base materials, 1 tests @ \$300.00/test	\$ 300.00
Carbonate Content, 1 tests @ \$100.00/each	\$ 100.00
Grain Size, 2 tests @ \$75.00/each	\$ 150.00
Atterberg Limits, 2 tests @ \$75.00/each	\$ 150.00
Organic Content Tests, 2 tests @ \$50.00/each	<u>\$ 100.00</u>

SUBTOTAL: \$ 1,010.00

III Construction Services-Soil Testing

Engineering Technician – Part time rate- (4 hours) including stand-by 7 trips @ \$260.00/trip	<u>\$ 1,820.00</u>
--------------------------------------------------------------------------------------------------	--------------------

SUBTOTAL: \$ 1,820.00

IV Professional Services

Project Manager, 3 hours @ \$175/hour	<u>\$ 525.00</u>
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SUBTOTAL: \$ 525.00

TOTAL CONSTRUCTION MATERIALS TESTING SERVICES: \$ 3,355.00

EXHIBIT A-3

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-3

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)

Task I-22-PBI-A-056 Hold Position and RGLs at RW 10R-28L and TW R1 (CM/CA/RPR)

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-22-PBI-A-056 Hold Position and RGLs at RW 10R-28L and TW R1 (CM/CA/RPR) Project (Project) at Palm Beach International Airport (PBI). The scope of work for this Project includes providing Construction Management (CM), Construction Administration (CA), and Resident Project Representative Services (RPR) services for this Project.

PROJECT TEAM

The Project Team for the PAPIs replacement will consist of:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	CM/CA/RPR Services
Quantum Electrical Engineering, Inc. (SUBCONTRACTOR)	Electrical CA/RPR services
Tierra South Florida (SUBCONTRACTOR)	Material Testing

PROJECT OBJECTIVE AND APPROACH

This Project constructs: new hold position marking, new runway holding position signage south of Runway 10R at Taxiway R1, two (2) new elevated LED L-804 Runway Guard Lights (wig-wags), new homerun circuits, a new 3 step regulator in the airfield electrical vault, modifications to the ALCMS, a mill and overlay of a small portion of Taxiway R, and install new concrete bases for owner furnished and installed guidance signs.

Procurement shall consist of materials procurement and mobilization for a period of sixty (60) Calendar Days from the Notice to Proceed (NTP). Project construction will be for a period of thirty (30) Calendar Days from the completion of the Procurement phase to substantial completion. Final acceptance shall be achieved within a period of Thirty (30) Calendar Days from the date of substantial completion.

Task I – CA Services

AECOM will provide CA Services throughout the scheduled construction of this Project and will include the following:

- A. Conferences and Meetings: Attend and facilitate meetings between Owner, Contractor(s), and Stakeholders, such as preconstruction meeting, kick-off meeting, progress meetings (a maximum of four (4) weekly construction progress meetings), job conferences and other project related meetings. Meeting Minutes for all formal meetings will be prepared by AECOM;
- B. Conformed Documents: Prepare (6) sets of Conformed Contract Plans and Specifications for Contract Execution. Prepare (6) sets of Executed Contract Documents for Construction, (3) for DOA, and (3) for the Contractor. Prepare a CD with Deliverables;
- C. Review Contractor's Maintenance of Traffic Plans;
- D. Review Contractor's Critical Path Schedule;
- E. Review Contractor's Security Plans;
- F. Shop Drawings: Review and approve shop drawings prior to the beginning of construction activities. Develop and maintain a log that summarizes status of all shop drawings;
- G. Interpretation and clarification of Contract Documents: Respond to various Requests for Information, Job memoranda, and other field prepared inquiries;
- H. Records: Maintain electronic files of correspondence, meeting minutes, shop drawings and Contract Documents including all work directive changes, addenda, change orders, field orders, additional drawings issued subsequent to the execution of the contract, clarifications and interpretations of the Contract Documents, progress reports and other project related documents.
- I. Payment Requests: Review applications for payment with quantities observed and forward recommendations to the DOA;
- J. Periodic Inspection Services: AECOM construction manager and EOR will provide periodic inspections (bi-weekly inspections);
- K. AECOM will be responsible for preparation, processing, review and document control of Change Orders, Field Instructions, Field Bulletins, Construction Change Proposals and Directives, and Notices of Non-Compliance;
- L. Task Management and Coordination: Coordinate as needed with FAA, DOA Operations, and other Project stakeholders;
- M. AECOM will review Contractor the Record Documents for completeness and obvious errors based on readily available information to the AECOM. The AECOM will provide comments prior to acceptance of the Contractor's Record Documents;
- N. AECOM will use all readily available information including the Contractor's As-builts to prepare Record Drawings for the completed work; and
- O. Project Close-out Activities: AECOM will prepare Certificate of Substantial Completion, and other Project related Close-out activities.

Task II – CM/RPR Services

As Part of this task, AECOM will perform the following services as part of CM/RPR:

- A. AECOM will perform Pre-Construction Inspection and take photographs of the Project Site in collaboration with the Contractor and the DOA to document existing site conditions. All areas where the Contractor is expected to impact including the: Project Work Areas, Haul Roads, Access Gates, Staging Areas, and Stockpile Locations will be documented;
- B. Review Contractor's record survey data as it is developed for existing conditions to evaluate conformance with design;
- C. CONSULTANT will review Contractor Daily Reports;
- D. QA Materials Testing: Provide materials testing for construction activities. This includes verifying that the base and subgrade compaction and materials meet FDOT requirements. Facilitate meeting at onset of Project outlining material testing requirements, as outlined in the contract documents, with materials testing personnel, RPR, and the Contractor.
- E. CONSULTANT will review QA Materials Test Results and Laboratory Reports performed by responsible Subconsultant;
- F. RPR Services: CONSULTANT will provide full-time on-site observations of the quality and progress of the contractor's work in order to determine if the construction is proceeding in accordance with the Contract Documents. The RPR's efforts will be directed toward determining whether the constructed project conforms to the Contract Documents. These RPR Services will include developing Daily Reports, monitoring the Contractor's progress, serving as the Owner's liaison with the Contractor, coordinating materials testing, and conducting on-site observations of the construction activities in progress to assist in determining if the work is being carried out in compliance with the Contract Documents;
- G. AECOM will review Guarantees, Warranties, Certifications, and Operation & Maintenance Manuals provided by the Contractor;
- H. Substantial and Final Completion: Conduct substantial and final completion inspection in the company of the DOA, and develop a substantial and final punch list of items in conjunction with Owner to be completed or corrected; and,
- I. Provide Construction Support Services to DOA during the performance of the Project.

PROJECT SCHEDULE

AECOM is scheduled to complete this project within 120 Calendar Days following receipt of the Notice to Proceed.

PROJECT DELIVERABLES

Project Deliverables are as described in the above-mentioned Tasks I and II.

PROJECT ASSUMPTIONS

1. AECOM shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. AECOM shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.
2. AECOM does not have the authority to prepare and/or issue NOTAMs and as a result, this task will be the responsibility of the DOA.
3. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform services that are not listed.
4. In the event that the DOA and the AECOM believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by the AECOM, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.
5. AECOM understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. AECOM shall not have the authority or responsibility to accept or reject work done by the Contractor and is only responsible for providing recommendations to the DOA based on the available information.

Exhibit B-3

Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-22-PBI-A-056 Hold Position and RGLs at RW 10R-28L and TW R1 (CM/CA/RPR)

Billing Rate: \$ 97 \$ 181 \$ 247 \$ 182 \$ 120 \$ 90

Task Description	Labor Estimate (Hours)							Fee Estimate (\$)		
	Resident Project Representative (RPR)	QC Reviewer	Senior Project Manager	Construction Manager	Project Engineer	Clerical	Total	Labor	Expenses	Total
Task I-22-PBI-A-056 Hold Position and RGLs at RW 10R-28L and TW R1 (CM/CA/RPR)										
1.0 CONSTRUCTION ADMINISTRATION SERVICES (LUMP SUM + REIM.)	0	8	11	44	38	1	102	\$16,823	\$0	\$16,823
A Pre-Construction Conference			2	4	2	1	8	\$ 1,462		\$ 1,462
B Construction Team Meeting / Kick-Off Meeting				1	1		2	\$ 302		\$ 302
C Weekly Progress Meetings (4 Const. Meetings)			1	8	4		13	\$ 2,183		\$ 2,183
D Pre-Activity Construction Meetings (2 @ 4 hrs/ea)				4	4		8	\$ 1,208		\$ 1,208
E Prepare Conformed and Executed Contract Documents		2	1	1	4		8	\$ 1,271		\$ 1,271
F Review Contractor's MOT Plans			1	1			2	\$ 429		\$ 429
G Review Contractor's Critical Path Schedule				1			1	\$ 182		\$ 182
H Review Contractor's Safety and Security Plans				2			2	\$ 364		\$ 364
I Process Review and Approve Shop Drawings and Submittals		2	1	4	4		11	\$ 1,817		\$ 1,817
J Process Review and Approve Shop Drawings and Re-Submittals			1	2	1		4	\$ 731		\$ 731
K Periodic Inspections (four (4) hour bi-weekly inspections)				4	4		8	\$ 1,208		\$ 1,208
L Interpretation and Clarification of Contract Documents/RFI's			1	2	2		5	\$ 851		\$ 851
M Establish and Maintain Project Records				1	1		2	\$ 302		\$ 302
N Review Applications for Payment				1	1		2	\$ 302		\$ 302
O Preparation of Change Orders, Notices of Non-Compliance etc...			1	2	1		4	\$ 731		\$ 731
P Task management and Co-ordination			2	2			4	\$ 858		\$ 858
Q As Built Review				1	1		2	\$ 302		\$ 302
R Prepare Record Drawings		4		1	6		11	\$ 1,626		\$ 1,626
S Project Closeout				2	2	1	5	\$ 694		\$ 694
T Pre-Construction Inspection & Photographs	8				2		10	\$ 1,016		\$ 1,016
Y Review QA Survey Results				2			2	\$ 364		\$ 364
U Full Time Inspections (4 weeks 50/week)	150			10	50		210	\$ 22,370	\$ 2,000	\$ 24,370
V Review Guarantees, Warranties, Certifications, and O&M Manuals			1	1			2	\$ 429		\$ 429
W Substantial and Final Completion Inspection				4	4		8	\$ 1,208		\$ 1,208
X Construction Support Services				4	4		8	\$ 1,208		\$ 1,208
Total Fee - AECOM Technical Services, Inc.	158	8	12	66	98	1	342	\$ 43,418	\$ 2,000	\$ 45,418

Subconsultant Fees Task 1.0

1	Quantum (LS)	\$ 11,515
2	Tierra South Florida, Inc. (T&M)	\$ 6,401

LS	\$54,933
TM	\$6,401
EXP	\$2,000
Total	\$63,334

Total Fee - Subconsultants \$ 17,916

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 63,334

Prepared by: AECOM Technical Services, Inc.

QUANTUM

Electrical Engineering, Inc.

November 4, 2021

AECOM Technical Services, Inc.
Mr. Andy Kacer P.E.
Southeast Aviation Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Construction Administration Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – Task I-22-PBI-A-049 PBI Hold position and RGLs at RW 10R-28L and TW R1 Construction Services.

Dear Andy:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide AECOM an electrical construction administration services fee proposal for the DOA Task I-21-PBI-A-056 PBI Hold position and RGLs at RW 10R-28L and TW R1 Construction Administration services.

TASK 1 Construction Services the following items are included in our scope:

- Based on 1 month of construction time,
- Includes electrical construction progress meetings (4) with DOA, AECOM and Contractor.
- Includes electrical shop drawings submittals reviews & approvals.
- Includes requests for information (RFI) reviews & approvals.
- Includes change order reviews and comments.
- Includes review of the electrical portion of pay applications.
- Includes periodic site observation visits up to 10 hours per week for 4 weeks. Quantities to be measured and recorded by AECOM RPR.
- Includes substantial and final completion inspections.
- Includes record drawings based on Contractor "Red Line Plan Mark-ups."

Our proposed total Lump-Sum fee is:
(See attachment breakdown)

\$ 11,515.19

Sincerely,



Amy L. Champagne-Baker, PE
President

Palm Beach County
2755 Vista Parkway, Suite I-9
West Palm Beach, FL 33411
561.210.9224

www.QuantumElectricalEngineering.com

Broward County
5571 N. University Drive, Suite 101
Coral Springs, FL 33067
954.369.5810

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- Task I-22-PBI-A-056 PBI Hold Position and RGLs at RW 10R-28L and TW R1 CA Services										
QUANTUM ELECTRICAL ENGINEERING, INC.										
SCOPE FEE SUMMARY										
FEE PROPOSAL ELECTRICAL CA to AE 11-04-2021										
	Rate	\$161.54	\$144.23	\$138.46	\$69.23	\$132.69	\$46.15			
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total		TOTAL	
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Expenses	TASK COST	
TASK 1 Construction Services										
Pre-Construction Conference		1					1		\$144.23	
Prepare Conformed Documents		1		1			2		\$213.46	
Review and Approve Shop Drawings		2			8	2	12		\$1,442.28	
On-Site Part Time Observation 10 hrs/weekx4 weeks					40	4	44		\$5,492.20	
Construction Coordination Meetings (4)		4			4		8		\$1,107.68	
Respond to Requests for Information (RFI)		2		4		2	8		\$657.68	
Change Orders		1		1	1		3		\$346.15	
Pay Applications					1		1		\$132.69	
Substantial Completion		4				1	5		\$623.07	
Final Completion		4				1	5		\$623.07	
Review As-builts					2		2		\$265.38	
Prepare Record Documents		1		4		1	6		\$467.30	
Subtotal	0	20	0	10	56	11	97		\$11,515.19	
Grand Total Hours	0	20	0	10	56	11	97			
Grand Total Labor Cost	\$0.00	\$2,884.60	\$0.00	\$692.30	\$7,430.64	\$507.65			\$11,515.19	



May 17, 2021

Mr. Andy Kacer, P.E.
AECOM
7650 West Courtney Campbell Causeway
Tampa, Florida 33607
Email: andy.kacer@aecom.com
Phone: 352-634-4363

**Re: Proposal for Construction Materials Testing Services
Hold Position RW 10R-28L and TW R1
Palm Beach International Airport
West Palm Beach, Florida
TSF Proposal No.: 2105-343**

Dear Andy:

TIERRA SOUTH FLORIDA (TSF), Inc. is pleased to submit the proposal for providing Construction Material Testing Services for the above referenced project in Palm Beach County, Florida.

Our proposal is based on construction documentation provided to this office. We understand that the project will include milling, widening of a section of runway and taxiway. Work elements include but not limited to milling of asphalt pavement, excavation/backfill for utility conduits, concrete testing, and paving.

The following scope of services will be required at this project:

- Density tests (using nuclear density methods) on backfill along with representative Proctor tests, gradation, Atterberg Limits and organic content tests;
- Concrete testing for sign slabs, miscellaneous;
- Asphalt Field and Plant observations.

TSF will provide experienced technical personnel to perform the necessary testing and inspection services in accordance with the project specifications. We propose to accomplish the scope of our services on a unit rate basis in accordance with the attached fee breakdown. TSF's fees will be determined by the actual amount of technical time expended for this project and the amount of laboratory testing performed.

TSF's laboratory and personnel fully comply with the standards of ASTM, ACI, AASHTO, AISC, AWS, FDOT, and FAA standards. Our laboratory maintains CMEC and FDOT certification and

PBIA Hold Position
TSF Proposal No. 2105-343

is staffed by experienced and certified field and laboratory personnel. In addition, we are currently providing similar services in vicinity airports and are very familiar with the general site conditions as well as the local construction practices.

ESTIMATED COST

We proposed to accomplish the above services on a rate schedule basis using the attached rates for an estimated amount of **\$6,401.08**.

We appreciate the opportunity to offer our services for your project. Should you have any questions or need additional information, do not hesitate to contact me at (561) 687-8536.

Respectfully submitted,

TIERRA SOUTH FLORIDA, INC.



Francois Thomas, P.E.
Principal Engineer
FL. Registration No. 56381

Attachments: Unit Fee Schedule

**Fees Breakdown for
Construction Materials Testing Services**

I Laboratory Testing Services

Concrete Tests, 3 tests @ \$150.00/set	\$ 450.00
Moisture-Density (Modified Proctor Test), 1 tests @ \$105.00/each	\$ 105.00
LBR Tests-subbase and base materials, 1 tests @ \$300.00/test	\$ 300.00
Carbonate Content, 1 tests @ \$100.00/each	\$ 100.00
Grain Size, 2 tests @ \$75.00/each	\$ 150.00
Atterberg Limits, 2 tests @ \$75.00/each	\$ 150.00
Organic Content Tests, 2 tests @ \$50.00/each	<u>\$ 100.00</u>

SUBTOTAL: \$1,355.00

III Construction Services-Soil and Concrete Testing

Engineering Technician – Part time rate- (4 hours) including stand-by 4 trips @ \$260.00/trip	\$ 1,040.00
Engineering Technician – Full time rate (8hours) including stand-by 2 trips @ \$520.00/trip	\$ 1,040.00

SUBTOTAL: \$ 2,080.00

IV Professional Services

Asphalt Plant Inspector, 14 hours @ \$73.82/hour	\$1,033.48
Asphalt Field Inspector, 10 hours @ \$73.82/hour	\$ 738.20
Project Manager, 5 hours @ \$238.88/hour	<u>\$ 1,194.40</u>

SUBTOTAL: \$ 2,966.08

TOTAL CONSTRUCTION MATERIALS TESTING SERVICES: \$ 6,401.08

EXHIBIT A-4

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-4

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach County Glades Airport (PHK)

Task I-22-PHK-A-57 PHK Runway 18-36 and Taxiway Rehabilitation (CM/RPR/CA)

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-22-PHK-A-57 PHK Runway 18-36 and Taxiway Rehabilitation (CM/RPR) Project (Project) at Palm Beach County Glades Airport (PHK). The scope of work for this Project includes providing Construction Management (CM), Resident Project Representative Services (RPR), and Construction Administration (CA) Services for the Project described below.

PROJECT TEAM

The Project Team consists of:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	CM//RPR Services
Quantum Electrical Engineering, Inc. (SUBCONTRACTOR)	Electrical CA/RPR services
Tierra South Florida, Inc. SUBCONTRACTOR)	Material Testing/RPR Services
Brown & Phillips, Inc. (SUBCONTRACTOR)	Survey QA
CH2M HILL, Inc. (SUBCONTRACTOR)	Construction Administration
Hillers Electrical Engineering, Inc. (SUBCONTRACTOR)	Construction Administration (Electrical)
ADA Engineering (SUBCONTRACTOR)	Construction Administration (Drainage/Permitting)

PROJECT OBJECTIVE AND APPROACH

This Project rehabilitates Runway 18-36 and all connector taxiways, as well as the reconstruction of blast pads on both runways ends to meet current FAA standards. The project also relocates Taxiway D (to be renamed Taxiway A3) to the north, eliminating the direct connection between the apron and the runway. This taxiway relocation includes demolition,

earthwork, grading, paving, signage and electrical updates. REILs relocation is also included in this project.

Procurement shall consist of materials procurement and mobilization for a period of sixty (60) Calendar Days from the Notice to Proceed (NTP). Project construction will be for a period of one-hundred (100) Calendar Days (7pm to 7am) from the completion of the Procurement phase to substantial completion. Final acceptance shall be achieved within a period of Thirty (30) Calendar Days from the date of substantial completion.

Task I – CM Services

AECOM will provide CM/RPR Services throughout the scheduled construction of this Project and will include the following:

- A. Conferences and Meetings: Attend and facilitate meetings between Owner, Designer, Contractor(s), and Stakeholders, such as preconstruction meeting, internal team kick-off meeting, construction progress meetings (a maximum of fourteen (14) weekly construction progress meetings), job conferences and other project related meetings (Total anticipated meetings twenty (20). Meeting Minutes for all formal meetings will be prepared by AECOM;
- B. Review Contractor's Maintenance of Traffic Plans;
- C. Review Contractor's Critical Path Schedule;
- D. Shop Drawings: facilitate, thru the designer, the review and approval shop drawings prior to the beginning of construction activities. Develop and maintain a log that summarizes status of all shop drawings;
- E. Interpretation and clarification of Contract Documents: in conjunction with the DOA/Designer, respond to various Requests for Information, Job memoranda, and other field prepared inquiries;
- F. Review Contractor's record survey data as it is developed for existing and proposed conditions to evaluate conformance with design;
- G. Review Contractor Daily Reports;
- H. QA Materials Testing: Provide materials testing for construction activities. This includes verifying that the constructed materials meet contract requirements. Facilitate meeting at onset of Project outlining material testing requirements, as outlined in the contract documents, with materials testing personnel, RPR, and the Contractor.
- I. Periodic Inspections: Provide periodic inspections by the Construction Manager (8 hours per week);
- J. Records: Maintain electronic files of correspondence, meeting minutes, shop drawings and Contract Documents including all work directive changes, addenda, change orders, field orders, additional drawings issued subsequent to the execution of the contract, clarifications and interpretations of the Contract Documents, progress reports and other project related documents.
- K. Payment Requests: Review applications for payment with quantities observed and forward recommendations to the DOA;
- L. AECOM will be responsible for preparation, processing, review and document control of Change Orders, Field Instructions, Field Bulletins, Construction Change Proposals and Directives, and Notices of Non-Compliance;

- M. Task Management and Coordination: Coordinate as needed with FAA, DOA, Designer and other Project stakeholders;
- N. Substantial and Final Completion: Conduct substantial and final completion inspection in the company of the DOA, and develop a substantial and final punch list of items in conjunction with Owner to be completed or corrected; and,
- O. AECOM will review Contractor the Record Documents for completeness and obvious errors based on RPR observations. The AECOM will provide comments to Contractor prior to submittal to the Designer of the Contractor's Record Documents;
- P. Project Close-out Activities: AECOM will prepare Certificate of Substantial Completion, and other Project related Close-out activities.

Task II – RPR Services

- A. AECOM will perform pre-construction inspection and take photographs of the project site in collaboration with the Contractor and the DOA to document existing site conditions. All areas where the Contractor is expected to impact including the: Project Work Areas, Haul Roads, Access Gates, Staging Areas, and Stockpile Locations will be documented; AND
- B. RPR Services: CONSULTANT will provide full-time on-site observations of the quality and progress of the contractor's work in order to determine if the construction is proceeding in accordance with the Contract Documents. The time allotted for RPR services is based on full time oversight for three (3) weeks during the procurement stage (120 hours), six (6) days a week, then 12 hours a day, with 40% of the time having two persons providing construction oversight for 100 days (1440), then 120 hours from substantial to final completion. The RPR's efforts will be directed toward determining whether the constructed project conforms to the Contract Documents. These RPR Services will include developing Daily Reports, monitoring the Contractor's progress, serving as the Owner's liaison with the Contractor, coordinating materials testing, and conducting on-site observations of the construction activities in progress to assist in determining if the work is being carried out in compliance with the Contract Documents.

Task III – CA Services

- A. Task Management and Coordination: Coordinate as needed with Subconsultants, FAA, DOA, and other Project stakeholders;
- B. The CA Services for this project will be primarily performed by the Design Team. See the attached proposal for CH2M HILL, Inc., ADA Engineering, and Hillers Electrical Engineering, Inc.

PROJECT SCHEDULE

AECOM is scheduled to complete this project within 190 Calendar Days following receipt of the Notice to Proceed.

PROJECT DELIVERABLES

Project Deliverables are as described in the above-mentioned Tasks I, II, and III.

PROJECT ASSUMPTIONS

1. AECOM shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. AECOM shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.
2. AECOM does not have the authority to prepare and/or issue NOTAMs and as a result, this task will be the responsibility of the DOA.
3. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform services that are not listed.
4. In the event that the DOA and the AECOM believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by the AECOM, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.
5. AECOM understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. AECOM shall not have the authority or responsibility to accept or reject work done by the Contractor and is only responsible for providing recommendations to the DOA based on the available information.

Exhibit B-4

Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-22-PHK-A-57 PHK Runway 18-36 and Taxiway Rehabilitation (CM/PRP/CA)

Billing Rate: \$ 07 \$ 101 \$ 247 \$ 102 \$ 120 \$ 00

Task Description	Labor Estimate (Hours)							Fee Estimate (\$)			
	Resident Project Representative (RPR)	QC Reviewer	Senior Project Manager	Construction Manager	Project Engineer	Clerical	Total	Labor	Expenses	Total	
Task I-22-PHK-A-57 PHK Runway 18-36 and Taxiway Rehabilitation (CM/PRP)											
1.0 CONSTRUCTION MANAGEMENT SERVICES (LUMP SUM + REIM.)	Total	3	2	52	400	407	24	888	\$137,297	\$1,000	\$138,297
A Pre-Construction Conference		2		1	4	4		10	\$ 1,402	\$ 500	\$ 1,902
A Construction Team Meeting / Kick-Off Meeting		1		1	1	1		4	\$ 646		\$ 646
A Weekly Progress Meetings and Special Meetings (16 Const. Meetings)		1		8	64	32		104	\$ 17,464		\$ 17,464
A Pre-Activity Construction Meetings (2 @ 4 hrs/ea)				4	4	4		8	\$ 1,208		\$ 1,208
B Review Contractor's MOT Plans				1	4	4		9	\$ 1,455		\$ 1,455
C Review Contractor's Critical Path Schedule					8	8		16	\$ 2,416		\$ 2,416
D Process Shop Drawings and Submittals					8	40		48	\$ 6,256		\$ 6,256
E Interpretation and Clarification of Contract Documents/RFI's			2	12	45	90		149	\$ 22,316		\$ 22,316
F Review Contractor's Paving/Earthwork Grades (Provide Feedback)				2	20	40		62	\$ 8,934		\$ 8,934
G Review Contractor's Daily Reports					7	14		21	\$ 2,954		\$ 2,954
H QA Material Testing				2	20	40		62	\$ 8,934		\$ 8,934
I Periodic Inspections					114			114	\$ 20,748		\$ 20,748
J Establish and Maintain Project Records					8	20		28	\$ 3,856		\$ 3,856
K Review Applications for Payment					5	10		15	\$ 2,110		\$ 2,110
L Preparation of Change Orders, Notices of Non-Compliance etc...				2	32	32		66	\$ 10,158		\$ 10,158
M Task management and Coordination				16	20	20	24	80	\$ 12,152		\$ 12,152
N Substantial and Final Completion					8	8		16	\$ 2,416	\$ 500	\$ 2,916
O As Built Review					12	20		32	\$ 4,584		\$ 4,584
P Project Closeout				8	16	20		44	\$ 7,288		\$ 7,288
2.0 FULL TIME INSPECTION (T&M + REIM.)	Total	1,308	0	0	8	380	0	1,688	\$173,032	\$5,300	\$179,232
A Pre-Construction Inspection & Photographs		8			8			16	\$ 2,232	\$ 500	\$ 2,732
B Full Time Inspections		1,300				380		1,680	\$ 171,700	\$ 4,800	\$ 176,500
3.0 CA Services (LS)									\$4,888		\$4,888
A Task Management and Coordination				8	16			24	\$ 4,888		\$ 4,888
Total Fee - AECOM Technical Services, Inc.		1,311	2	52	400	787	24	2,584	\$ 316,117	\$ 6,300	\$ 322,417

Subconsultant Fees Task 1.0	
1 Quantum (LS)	\$ 28,661
2 Tierra South Florida, Inc. (T&M)	\$ 59,020
3 Brown & Phillips, Inc. (T&M)	\$ 0,000
4 CH2M HILL, Inc. (LS)	\$ 64,548
CH2M HILL, Inc. (EXP)	\$ 3,510
5 ADA Engineering (LS)	\$ 28,417
ADA Engineering (EXP)	\$ 830
6 Hillers Electrical Engineering, Inc. (LS)	\$ 12,480
	\$ -

LS	\$266,291
TM	\$240,952
EXP	\$10,640
Total	\$517,883

Total Fee - Subconsultants \$ 195,466

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 517,883

Prepared by: AECOM Technical Services, Inc

QUANTUM

Electrical Engineering, Inc.

May 26, 2021

AECOM Technical Services, Inc.
Mr. Andy Kacer P.E.
Southeast Aviation Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Construction Administration Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – Palm Beach County Glades (Pahokee) Airport- Runway and Taxiway Rehabilitation Construction Services. (PBC Project No. GL 21-8)

Dear Andy:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide AECOM an electrical construction administration services fee proposal for the Runway and Taxiway Rehabilitation Project at Palm Beach County Glades (Pahokee) Airport.

TASK 1 Construction Services the following items are included in our scope:

- Based on 15 weeks of construction time.
- Includes electrical construction progress meetings (15) with DOA, AECOM and Contractor.
- Includes change order reviews and comments.
- Includes review of the electrical portion of pay applications.
- Includes periodic site observation visits up to 12 hours per week for 15 weeks.
- Quantities to be measured and recorded by AECOM RPR.
- Includes substantial and final completion inspections.

Our proposed total Lump-Sum fee is:
(See attachment breakdown)

\$ 28,661.04

Sincerely,



Amy L. Champagne-Baker, PE
President

Palm Beach County
2755 Vista Parkway, Suite I-9
West Palm Beach, FL 33411
561.210.9224

www.QuantumElectricalEngineering.com

Broward County
5571 N. University Drive, Suite 101
Coral Springs, FL 33067
954.369.5810

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PHK RW TW Rehab Construction Services										
QUANTUM ELECTRICAL ENGINEERING, INC.										
SCOPE FEE SUMMARY										
FEE PROPOSAL ELECTRICAL CONSTRUCTION SERVICES										
	Rate	\$161.54	\$144.23	\$138.46	\$69.23	\$132.69	\$46.15			
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total			TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Expenses		TASK COST
TASK 1 Construction Services										
Pre-Construction Conference						1	1			\$132.69
On-Site Part Time Observation 12 hrs/week x 15 weeks					180		180			\$23,884.20
Construction Coordination Meetings (15)					15		15			\$1,990.35
Change Orders					8		8			\$1,061.52
Pay Applications					4		4			\$530.76
Substantial Completion					4		4			\$530.76
Final Completion					4		4			\$530.76
Subtotal	0	0	0	0	0	216	0	216		\$28,661.04
Grand Total Hours	0	0	0	0	0	216	0	216		
Grand Total Labor Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28,661.04	\$0.00			\$28,661.04



June 1, 2021

Mr. Andy Kacer, P.E.
AECOM
7650 West Courtney Campbell Causeway
Tampa, Florida 33607
Email: andy.kacer@aecom.com
Phone: 352-634-4363

**Re: Proposal for Construction Materials Testing Services
Runway and taxiway Rehabilitation
Palm Beach County Glades Airport
Palm Beach County, Florida
TSF Proposal No.: 2106-375 Revised**

Dear Andy:

TIERRA SOUTH FLORIDA (TSF), Inc. is pleased to submit the proposal for providing Construction Material Testing Services for the above referenced project in Palm Beach County, Florida.

Our proposal is based on construction documentation provided to this office. We understand that the project will include milling, widening of a section of runway and taxiway. Work elements include but not limited to milling of asphalt pavement, excavation/backfill for utility conduits, concrete testing, and paving.

The following scope of services will be required at this project:

- Density tests (using nuclear density methods) on backfill along with representative Proctor tests, gradation, Atterberg Limits and organic content tests
- Density tests (using nuclear density methods) on subgrade and base materials along with representative LBR tests, gradation;
- Concrete testing for encasements, cans, miscellaneous
- Soil observations/inspections;
- Asphalt Field and Plant observations
- RPR Services

TSF will provide experienced technical personnel to perform the necessary testing and inspection services in accordance with the project specifications. We propose to accomplish the scope of our services on a unit rate basis in accordance with the attached fee breakdown. TSF's fees will be determined by the actual amount of technical time expended for this project and the amount of laboratory testing performed.

PBC Glades Airport
TSF Proposal No. 2106-375

TSF's laboratory and personnel fully comply with the standards of ASTM, ACI, AASHTO, AISC, AWS, FDOT, and FAA standards. Our laboratory maintains CMEC and FDOT certification and is staffed by experienced and certified field and laboratory personnel. In addition, we are currently providing similar services in vicinity airports and are very familiar with the general site conditions as well as the local construction practices.


ESTIMATED COST

We proposed to accomplish the above services on a rate schedule basis using the attached rates for an estimated amount of **\$59,020**.

We appreciate the opportunity to offer our services for your project. Should you have any questions or need additional information, do not hesitate to contact me at (561) 687-8536.

Respectfully submitted,

TIERRA SOUTH FLORIDA, INC.



Francois Thomas, P.E.
Principal Engineer
FL. Registration No. 56381

Attachments: Unit Fee Schedule

**Fees Breakdown for
Construction Materials Testing Services**

I Laboratory Testing Services

Concrete Tests, 20 tests @ \$140.00/set	\$2,800.00
Moisture-Density (Modified Proctor Test), 4 tests @ \$105.00/each	\$ 420.00
LBR Tests-subbase and base materials, 4 tests @ \$300.00/test	\$1,200.00
Carbonate Content, 2 tests @ \$100.00/each	\$ 200.00
Grain Size, 4 tests @ \$75.00/each	\$ 300.00
Atterberg Limits, 4 tests @ \$65.00/each	\$ 260.00
Organic Content Tests, 4 tests @ \$35.00/each	<u>\$ 140.00</u>

SUBTOTAL: \$5,320.00

III Construction Services-Soil and Concrete Testing

Engineering Technician – 100 trips (min 5 tests per trip) @ \$125.00/trip	\$12,500.00
Additional Density Tests – beyond 5 tests per trip, 500 tests @ \$25.00/test	<u>\$12,500.00</u>

SUBTOTAL: \$25,000.00

IV Professional Services

Senior Technician, de-mucking observations, 120 hours @ \$75.00/hour	\$9,000.00
Senior Technician-RPR Services, 120 hours @ \$75.00/hour	\$9,000.00
Asphalt Plant Inspector, 48 hours @ \$75.00/hour	\$3,600.00
Asphalt Field Inspector, 48 hours @ \$75.00/hour	\$3,600.00
Project Manager, 20 hours @ \$175.00/hour	<u>\$3,500.00</u>

SUBTOTAL: \$28,700.00

TOTAL CONSTRUCTION MATERIALS TESTING SERVICES: \$59,020.00



BROWN & PHILLIPS, Inc.
 PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A'

Palm Beach County Glades "Pahokee" Airport (PHK)
 Runway 18-36 and Taxiway Rehabilitation

Type of Survey: Topographic

Size:

Date: November 4, 2021

TASK	SURVEY CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Meetings and Coordination					
Construction Survey QA	30	10	20	9	
Total Hours:	30	10	20	9	
Rate/Hour	\$140.90	\$84.54	\$84.54	\$137.17	
Subtotal:	\$4,227.00	\$845.40	\$1,690.80	\$1,234.53	
Total Labor Cost:					\$7,997.73

<u>Other Direct Costs:</u>	<u>quantity</u>	<u>unit</u>	<u>cost/unit</u>	<u>total</u>
Prints		sheet	\$1.50	\$0.00
Shipping		cost x markup	1.20	\$0.00
Other				\$0.00
Total Other Direct Costs:				\$0.00

TOTAL PRICE **\$7,997.73**

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

Task I-22-PHK-A-57

**Palm Beach County Glades (Pahokee) Airport (PHK)
Runway and Taxiway Rehabilitation
Construction Administration (CA) Services**

CONSTRUCTION ADMINISTRATION SERVICES

Construction Administration Services will be authorized by the Notice-to-Proceed for this project. CH2M HILL, Inc. (CH2M) will provide professional services for the construction of the Runway and Taxiway Rehabilitation Project at Palm Beach County Glades (Pahokee) Airport (PHK). CH2M services will be limited to providing conformed construction documents, pre-construction conference and bi-weekly construction progress meetings, periodic site visits, project administration for shop drawings and submittals reviews, responding to requests for information (RFI), preparing field instructions and bulletins, review of significant contractor change order proposals, preparing record drawings, and general administration.

As part of this project, CH2M will perform the following tasks as a part of the Construction Administration:

- 5.01 Prepare Conformed Construction Contract Documents;
- 5.02 Attend Pre-Construction Conference;
- 5.03 Attend Bi-Weekly Construction Progress Meetings - Agenda and Minutes to be prepared by Others;
- 5.04 Attend Periodic Site Visits (4 visits) during the active construction period;
- 5.05 Review of Contractor's Critical Path Method (CPM) Baseline Schedule for compliance with the phasing plans, sequencing of construction and contract time;
- 5.06 Review of Contractor's Proposed Phasing and Maintenance of Traffic Plans;
- 5.07 Review Contractor's Safety Plan Compliance Document (SPCD) for compliance with the Construction Safety Phasing Plan (CSPP) and FAA AC 150/5370-2G;
- 5.08 Review Contractor's Quality Control and Lay Down Plans;
- 5.09 Process Shop Drawings and Submittals;
- 5.10 Process Shop Drawing Re-submittals estimated at 20% of total number of required shop drawings/submittals;
- 5.11 Process Design Clarifications and Recommendations During Construction;
- 5.12 Prepare Field Bulletins / Instructions;
- 5.13 Review Contractor Change Orders;
- 5.14 SFWMD and FDEP Permitting – Construction Permit Submittal Packages & RAIs and Resubmittal Packages to address significant changes during construction;
- 5.15 Document Control of shop drawings/submittal log, RFI log, Field Bulletins/Instructions, QA Materials Testing;

-
- 5.16 Attend One Substantial Completion Inspection and One Final Completion Inspection, including preparation of punch list;
 - 5.17 Prepare Record Drawings based on contractor red-line as-built drawings;
 - 5.18 Task Management;
 - 5.19 Task Coordination (DOA Operations, FBO, Contractor, other Consultants, and other interested project Stakeholders);
 - 5.20 Task Independent Technical Review (ITR) - Quality Assurance/ Quality Control.

CH2M will prepare conformed construction contract documents incorporating contractor's bid proposal and changes resulting from addenda issued during the bid and award phase. Assist with the preparation of a contract between the DOA and the successful bidder; prepare four (4) sets of conformed contract plans and documents for submittal to the successful bidder for Contract Execution; prepare four (4) sets of conformed contract plans and documents for construction use by the design team, client, and successful bidder during construction.

CH2M will participate in pre-construction conference. For budgeting purposes, the CH2M Project Manager will attend the pre-construction conference.

CH2M will establish and maintain the project document control system in CH2M files. Individual folders will be established to file and document the following instruments of the construction contract:

- Conformed Contract Documents
- Project Correspondence
- Requests for Information
- Field Instructions
- Field Bulletins
- Change Orders
- Shop Drawings and Submittals
- QA Materials Inspection Testing and Report
- Substantial and Final Completion Inspections and Reports

Document control of construction payment applications, notices of non-compliance, construction change directives, and construction proposals will be performed by others and is not include in this scope of services.

Provide one set of reproducible drawings and CAD file "record drawings," which will become the property of the DOA, corrected to show changes made in the work during construction of the project. Such corrections will be based solely upon "as-built" prints, drawings, field sketches, and other data furnished to CH2M by the DOA and the contractor, and upon change orders issued during construction. CH2M will not verify the as- built information provided by the DOA or contractor. Record drawings will be prepared in part on the basis of information compiled and furnished by others, and may not always represent the exact location, type of various components, or exact manner in which the Project was finally constructed. CH2M is not responsible for any errors and omissions in the information from others which is incorporated into the record drawings.

CH2M will perform Task Management including providing overall contract administration and monthly invoicing and progress reporting.

CH2M will provide Task Coordination including emails, telephone conversations, and general correspondence with DOA, Fixed Base Operator (FBO), Contractor and other Consultants and Stakeholders throughout the duration of the project. For budgeting purposes, CH2M assumes an average of 1.5 hours per week from Construction Administration NTP through issuance of Final Completion throughout active construction.

CH2M will perform Task Independent Technical Reviews (QA/QC) of CH2M Design Team Subconsultants responsible services including shop drawings / submittals, RFIs, Field Instructions / Bulletins, and Record Drawings.

To avoid misunderstandings or questions, CH2M understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. Accordingly, the CH2M shall not have the authority or responsibility to issue direct instructions to the contractor, to reject the work done by the contractor, or to require special inspections and/or tests. CH2M however, will provide continuing counsel to the DOA representatives throughout the construction of the project.

Project Deliverables

As required under Phase 5 summarized in this scope of services.

Project Assumptions

1. CH2M will perform services listed in this scope of services. It is assumed that the DOA or others will perform all construction services NOT listed in this scope of services.
2. Construction management services are not included in this scope of work. A separate task authorization will be prepared and negotiated for construction management services if requested by the DOA.
3. Pre-construction conference meeting agenda/minutes and bi-weekly construction progress meeting agenda/minutes will be prepared by others.
4. All permit fees are excluded from this scope of services and will be paid by the DOA.

-
5. CH2M assumes the DOA and Contractor will be responsible for the following:
 - A. Review and processing of contractor pay application requests, DBE monitoring and compliance, issuance and processing of change orders and notices of non-compliance.
 - B. Badging, ensuring contractor is in compliance with airport requirements, safety regulations, etc.
 - C. Verifying construction vehicles are properly marked, lighted, registered, and verifying contractor equipment/vehicles meet the technical specification requirements and are in good operating condition.
 - D. Coordination with FBO and tenants necessary to relocate aircraft during construction activities.
 - E. Filing proper Notices to Airmen (NOTAMS).
 - F. Verifying barricades are placed in accordance with the construction drawings or as approved by airport operations.
 - G. Performing project closeout activities such as processing final pay application requests, grant closeouts, etc.
 - H. Responsibility for the general administration of the construction contract including preparing and approving change orders, processing pay applications, accepting work performed by the contractor, etc.
 - I. Providing a consolidated redline as-built mark-up for preparation of record drawings.
 - J. Providing Lighted Runway Closure Xs and required Barricades during the performance of the project;
 - K. Preparing and submitting the FAA Airspace Study Checklist and as such, is not included in the scope of work.

Exhibit B

Labor/Fee Estimate Summary - PHKRWY and TWY Rehabilitation - CA Services

Billing Rate: \$ 289.17 \$ 224.88 \$ 177.00 \$ 142.02 \$ 122.02 \$ 94.42 \$ 85.88 \$ 70.51 \$ 112.50 \$ 159.50

Task Description	Labor Estimate (Hours)															Fee Estimate (\$)							
	Program Manager / Principal / Senior Consultant	Senior Technologist / Senior Project Manager	Project Manager / Design Manager / Task Leader	Project Engineer / Planner / Associate Project Manager	Staff Engineer / Planner	Design Technician	Graphics Support / Administrative Manager	Admin.	Document Control Specialist	Project Estimator / Scheduler	Total Labor Hours	Total Fee											
Task No 1-22-PHK-A-057																							
5.0 Construction Administration (CA)	Total	0	39	0	71	0	167	0	21	0	20	0	10	0	17	0	16	0	2	0	369	0	\$ 54,548.29
5.01 Prepare Conformed Construction Contract Documents	0	0	0	4	0	8	0	2	0	0	14	0	0	0	0	0	0	0	0	0	14	0	\$ 1,480.08
5.02 Attend 1 Pre-Construction Meeting	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	\$ 355.32
5.03 Attend Bi-Weekly Construction Progress Meetings, Agenda and Minutes Prepared by Others (15 total @ 2 hrs each Virtual)	0	0	4	26	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	30	0	\$ 4,426.56
5.04 Attend a Max. of 4 Periodic Site Visits (4 total @ 8 hrs each)	0	0	6	12	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	24	0	\$ 4,130.16
5.05 Review of Contractor's CPM Baseline Schedule	0	0	2	2	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6	0	\$ 850.16
5.06 Review of Contractor's Proposed Phasing and Maintenance of Traffic Plans (6 Phase/MOT Plan @ 2 hrs each)	0	0	6	6	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	12	0	\$ 1,923.48
5.07 Review Contractor's Safety Plan Compliance Document (SPCD)	0	0	2	6	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8	0	\$ 1,212.84
5.08 Review Contractor's Quality Control and Lay Down Plans	0	0	2	6	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8	0	\$ 1,212.84
5.09 Process Shop Drawings and Submittals (25 total @ 1 hr each)	0	0	4	16	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	25	0	\$ 3,807.48
5.10 Process Shop Drawing Re-submittals (70% Re-submittals - 15 total @ 1 hr each)	0	1	2	8	4	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15	0	\$ 2,211.82
5.11 Process Design Clarifications and Recommendations (25 RFIs @ 2 hr each)	0	4	16	20	6	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	60	0	\$ 7,638.56
5.12 Prepare Field Bulletins / Instructions (10 @ 4 hrs each)	0	10	0	20	0	0	8	2	0	0	40	0	0	0	0	0	0	0	0	0	40	0	\$ 5,947.06
5.13 Review Change Orders (5 @ 4 hrs each)	0	2	5	13	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	\$ 3,195.98
5.14 Permitting - SFWMD, FDEP Construction Permit	0	0	2	2	0	0	2	1	0	0	7	0	0	0	0	0	0	0	0	0	7	0	\$ 889.43
5.15 Document Control (Shop Drawings/Submittal Log, RFI Log, Field Bulletin/Instructions, QA Materials Tracking, and CEI Reports)	0	0	0	0	0	0	0	4	16	0	20	0	0	0	0	0	0	0	0	0	20	0	\$ 2,107.48
5.16 Attend 1 Substantial and 1 Final Completion Inspections (2 total at 8 hrs each, includes preparation of punch list)	0	0	0	16	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16	0	\$ 2,286.72
5.17 Prepare + Review Record Drawings	0	0	2	6	2	16	0	0	0	0	26	0	0	0	0	0	0	0	0	0	26	0	\$ 2,967.60
5.18 Task Management (Subcontracting / POs, Invoicing, etc. - Total of 3 Subconsultant Contracts)	0	0	8	0	0	0	0	2	0	0	10	0	0	0	0	0	0	0	0	0	10	0	\$ 1,574.30
5.19 Task Coordination (DOA Operations, FBO, Consultants, Contractor, and other interested project Stakeholders)	0	0	8	4	2	0	0	2	0	0	20	0	0	0	0	0	0	0	0	0	20	0	\$ 2,822.90
5.20 Task Independent Technical Review (ITR) - Quality Assurance/ Quality Control	0	16	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16	0	\$ 3,597.76
CH2M HILL Phase 5 - Construction Administration SubTotal - Lump Sum	0	39	71	167	21	20	10	17	16	2	369	0	0	0	0	0	0	0	0	0	369	0	\$ 54,548.29
Task 5.0 - Construction Administration Total												369	0	\$ 54,548.29									
Sub Total Fee Estimate - Reimbursable Expenses - Time & Materials														\$ 3,610.00									
Total Fee Estimate (Lump Sum + Time & Materials)														\$ 58,158.29									

Prepared by: CH2M HILL, INC.



SCOPE OF SERVICES

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS PALM BEACH COUNTY GLADES (PAHOKEE) AIRPORT RUNWAY AND TAXIWAY REHABILITATION

Section 1 – Introduction

The Palm Beach County Department of Airports (DOA) has requested AECOM to prepare a proposal for the provision of Permitting and Construction Administration (CA) Services for the Palm Beach County Glades (Pahokee) Airport. Specifically, A.D.A. Engineering, Inc. (ADA) is providing this proposal to complete the following:

- Permitting Services
- Drainage Construction Administration Services

Section 2 – Scope of Service

Permitting Services

ADA will prepare and submit the South Florida Water Management District (SFWMD) Notice of Commencement prior to the start of construction. ADA will provide the following services under this task:

- Coordination and attend a pre-construction meeting
- Submittal of SFWMD Notice of Commencement and supporting documentation and Construction Completion Certification.
- Following submittal of SFWMD Notice of Commencement, the Florida Department of Environmental Protection (FDEP) permit will be required for a National Pollution Discharge Elimination System (NDPES) Notice of Intent (NOI). This is typically submitted by the Contractor, but ADA can assist the applicant that will be submitting the application in addressing agency comments.

Drainage Construction Administration Services

ADA will work with JACOBS to provide drainage post design services. ADA will provide the following services under this task:

- Prepare conformed construction contract documents.
- Attend one (1) pre-construction meeting.
- Respond up to ten (10) Requests for Information.
- Attend up to five (5) bi-weekly construction meetings virtually at 1 hour per meeting.
- Review and approve up to ten (10) shop drawing submittals and up to seven (7) shop drawing resubmittals.
- Review of up to 3 changes orders.
- Attend periodic site visits averaging one site visit per month during the active construction period at eight (8) hours per visit.
- Attend one (1) Substantial Completion Inspection and provide a punch list.



- Attend one (1) Final Completion Inspection.
- Preparation of Certification of Completion Letter.
- As-built Drawing review/verification and preparation of record drawings.

Qualifiers

- Project duration for a total of 130 calendar days.
- An OT allowance has not been included.

Section 3 – Exclusions

1. Submittal of SFWMD Environmental Resource permit or permit modification.
2. Materials testing is not included.
3. Schedule management or cost control.
4. Review of Contractor’s Critical Path Method (CPM) Baseline Schedule for compliance with the phase plans, sequencing of construction and contract time.
5. Review of Contractor’s Proposed Phasing and Maintenance of Traffic Plans, Safety Plan Compliance Document (SPCD), and Quality Control and Lay Down Plans.
6. Preparation of Field Bulletins/Instructions.
7. Preparation and submittal of CEI Reports.
8. Document control of shop drawing submittal and RFI logs.
9. Document control of Field Bulletins, QA Materials Testing, and CEI Reports.
10. Task Management (Subcontracting/POs, Invoicing, etc.).
11. Task Coordination (DOA Operations, FBO, Consultants, Contractor, and other project Stakeholders).
12. Task Independent Technical Review (ITR) – Quality Assurance/Quality Control.
13. Any service not clearly identified in the Scope of Work.

Section 4 – Compensation

The total compensation for the Scope of Services described in Section 2 is lump sum not to exceed \$29,246.80. A man-hour breakdown of the time and materials, not to exceed fee is attached in Exhibit B for your reference.

TASK	DESCRIPTION	FEE
1	Permitting Services	\$3,808.26
2	Drainage Construction Administration Services	\$24,608.54
	Reimbursable Expenses	\$830.00
	TOTAL	\$29,246.80



Section 5 – Additional Services

ADA will provide, as requested and authorized in writing by PBC-DOA and AECOM, additional services that may be required beyond those described in this scope and fee proposal. The fee for said services shall be negotiated prior to starting the work.

We look forward to assisting AECOM on this important project assignment. If you have any questions or need additional information, please do not hesitate to contact me at (305) 551-4608.

Sincerely,
A.D.A. ENGINEERING, INC.

Alberto Argudin, PE, CGC, LEED AP
President

Exhibit B
 Labor Fee Estimate Summary - PHK RWY and TWY Rehabilitation - Drainage CA Services

Billing Rate: \$ 269.17 \$ 224.80 \$ 177.00 \$ 142.02 \$ 122.02 \$ 94.42 \$ 85.88 \$ 70.61 \$ 112.59 \$ 159.50

Task Description	Labor Estimate (Hours)											Fee Estimate (\$)									
	Program Manager / Principal / Senior Consultant	Senior Technologist / Senior Project Manager	Project Manager / Design Manager / Task Leader	Project Engineer / Planner / Associate Project Manager	Staff Engineer / Planner	Design Technician	Graphics Support / Administrative Manager	Admin.	Document Control Specialist	Project Estimator / Scheduler	Total Labor Hours	Total Fee									
Task No 522-PHK-A-057																					
5.0 Drainage Construction Administration (CA) Services	Total	0	8	0	88	0	62	0	0	0	16	0	0	8	0	0	0	0	182	0	\$ 28,416.80
5.01 Prepare Conform Construction Contract Documents	0	1	0	2	0	4	0	0	0	0	2	0	0	0	0	0	0	0	9	\$ 1,304.88	
5.02 Attend 1 Pre-Construction Meeting, Prepare Agenda and Minutes	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	\$ 571.68	
5.03 Attend Bi-Weekly Construction Progress Meetings, Agenda and Minutes Prepared by Others (5 total @ 1 hr each Virtual)	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	\$ 714.80	
5.04 Attend a Max. of 4 Periodic Site Visits (1 site visit per month, at 4 total @ 8 hrs each)	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	\$ 6,605.12	
5.09 Process Shop Drawings and Submittals (up to 10 total @ 1 hr each)	0	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	\$ 2,226.32	
5.10 Process Shop Drawing Re-submittals (70% Resubmittals - up to 7 total @ 1 hr each)	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	\$ 1,243.62	
5.11 Process Design Clarifications and Recommendations (up to 10 RFIs @ 3 hr each)	0	0	10	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	\$ 4,835.00	
5.13 Review Change Orders (up to 3 @ 4 hrs each)	0	1	4	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	\$ 1,936.94	
5.14 Permitting - SFVWD Notice of Commencement, FDEP Construction Permit (Pre-Construction Meeting, and preparation and submittal of applications)	0	0	15	8	0	8	0	8	0	4	0	0	0	0	0	0	0	0	35	\$ 4,869.66	
5.16 Attend 1 Substantial and 1 Final Completion Inspections (2 total at 8 hrs each, includes preparation of punch list)	0	4	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	\$ 2,822.92	
5.17 Prepare + Review Record Drawings	0	0	2	8	0	8	0	8	0	2	0	0	0	0	0	0	0	0	20	\$ 2,407.06	
Phase 5 - Drainage Construction Administration Subtotal - Lump Sum	0	8	88	62	0	16	0	8	0	0	8	0	0	0	0	0	0	182	0	\$ 28,416.80	
Task 5.0 - Drainage Construction Administration Total																					
ADA Grand Total Lump Sum Fee Estimate	0	8	88	62	0	16	0	8	0	0	8	0	0	0	0	0	0	182	0	\$ 28,416.80	
ADA Grand Total Time & Materials Fee Estimate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	
Subconsultant Fees	Total Subconsultant Lump Sum Fee - ADA LS \$ 28,416.80																				
Subconsultant Grand Total - Drainage Construction Administration Services - Lump Sum Fee Estimate	\$	28,416.80																			
Sub Total Fee Estimate - Drainage Construction Administration Services - Lump Sum	\$	28,416.80																			
Sub Total Fee Estimate - Reimbursable Expenses - Lump Sum	\$	830.00																			
Total Fee Estimate (Lump Sum)	\$	29,246.80																			

Prepared by: A.D.A. Engineering, Inc.

H E E

HILLERS ELECTRICAL ENGINEERING, INC.

December 8, 2021

Mr. Andy Kacer, P.E., PM
AECOM Technical Services, Inc.
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Construction Administration Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – Task I-22-PHK-A-057 Palm Beach County Glades (Pahokee) Airport - Runway and Taxiway Rehabilitation Construction Administration Services.

Dear Andy:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide AECOM an electrical engineering construction administration services fee proposal for the Pahokee Airport - Runway and Taxiway Rehabilitation Construction Services.

The following items are included in our scope:

- Includes attending preconstruction meeting with DOA, JACOBS and Contractor.
- Includes attending construction progress meetings (15) with DOA, AECOM and Contractor.
- Electrical submittals review & approvals.
- RFI- reviews & approvals.
- Includes Change Order reviews and comments.
- Includes review of the electrical portion of pay applications.
- Includes (2) site observation visits.
- Includes substantial and final completion inspections.

Assumptions:

- Based on 15 weeks of construction time.
- Quantities shall be measured and recorded by DOA RPR.

Our proposed L.S. construction administration fee is: \$ 12,479.98

Sincerely,



Thomas Doran, Vice-President

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS - PHK RW/TW REHAB ADMIN CONSTRUCTION SERVICES										
HILLERS ELECTRICAL ENGINEERING, INC.										
SCOPE FEE SUMMARY										
FEE PROPOSAL ELECTRICAL Const. Admin. to AECOM 12-8-2021										
	Rate	\$187.26	\$175.18	\$141.96	\$108.74	\$138.93	\$81.54			
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total			TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Expenses	TASK COST
Construction Services										\$0.00
Pre-Construction Conference		2					2			\$350.36
Site Visits (2)		1				12	2	15		\$2,005.42
Construction Coordination Meetings (15)		15					15			\$2,627.70
Electrical Submittals Reviews & Approvals		4	16			2				\$3,135.16
RFI- Reviews & Approvals		8				1	9			\$1,482.98
Change Order Reviews		2	2	2	2	1	9			\$1,211.16
Pay Applications Reveiws		3				1	4			\$607.08
Substantial Completion		2				2	1	5		\$709.76
Final Completion		2					2			\$350.36
Subtotal	0	39	18	2	16	8	83			\$12,479.98
										\$0.00
										\$0.00
							0			\$0.00
							0			\$0.00
							0			\$0.00
							0			\$0.00
							0			\$0.00
Subtotal	0	0	0	0	0	0	0	0		\$0.00
Grand Total Hours	0	39	18	2	16	8	83			
Grand Total Labor Cost	\$0.00	\$6,832.02	\$2,555.28	\$217.48	\$2,222.88	\$652.32				\$12,479.98

EXHIBIT A-5

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-5

Miscellaneous Architectural, Planning, Engineering and Construction Services

**Palm Beach International Airport (PBIA)
North Palm Beach County General Aviation Airport (F45)
Palm Beach County Park Airport (LNA)
Palm Beach County Glades Airport (PHK)
Task-I-22-DOA-A-058 PBCDOA Minimum Standards and Rules**

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM) provide professional services associated with the Task-I-22-DOA-A-058 PBCDOA Minimum Standards and Rules Project (Project). This Project will review and update the existing Rules and Regulations and Minimum Standards for the Palm Beach County System of Airports (System).

PROJECT TEAM

The Project Team consists of:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	Project Administration / Task Coordination
Aviation Management Consulting Group (AMCG) (SUBCONSULTANT)	Develop PBCDOA Minimum Standards and Rules

Scope of Services

Scope of work includes the review and update the existing Rules and Regulations and Minimum Standards for the Palm Beach County System of Airports (System). This work includes developing the twelve (12) Tasks described in detail in the following document with the corresponding below deliverables:

Deliverables:

The Deliverables will include:

- Draft PMCD Table of Contents;
- First Draft Primary Management and Compliance Documents (PMCDs);
- Second Draft PMCDs
- Third Draft PMCDs
- Fourth Draft PMCDs
- Final PMCDs

Deliverables and Estimated Duration

Based on AMCG's experience with similar projects, the scope of services and work plan can be completed within **9 months from the NTP**.

Table B															
Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task-I-22-DOA-A-058 PBCDOA Minimum Standards and Rules															
Billing Rate:					\$ 212	\$ 247	\$ 182	\$ 120	\$ 89	\$ 90					
Labor Estimate (Hours)										Fee Estimate (\$)					
Task Description (Scope of Work)			Senior Structural Engineer	Senior Project Manager	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total			
PBCDOA Minimum Standards and Rules	Total		12	14	0	6	0	16	48	\$8,162	\$0	\$8,162			
Kick-Off Meeting				2					2	\$ 494		\$ 494			
Review Meetings				6					6	\$ 1,482	\$ -	\$ 1,482			
Coordination and Task Management			12	6		6		16	40	\$ 6,186	\$ -	\$ 6,186			
Total Fee - AECOM Technical Services, Inc.		0	12	14	0	6	0	16	48	8,162	0	8,162			
Subconsultant Fees															
Aviation Management Consulting Group	LS	\$	92,625										Lump Sum	\$	100,787
Aviation Management Consulting Group	Exp	\$	9,000										T&M		
												Expenses	\$	9,000	
													\$	109,787	
Total Fee - Subconsultants													\$	101,625.00	
GRAND TOTAL FEE - BASIC ENGINEERING SERVICES													\$	109,787	
Prepared by: AECOM Technical Services, Inc.															

SCOPE OF SERVICES

- Prospect:** Palm Beach County Department of Airports (Department)
846 Palm Beach International Airport
West Palm Beach, Florida 33406
- Contacts:** Ms. Laura Beebe, Airport Director
Mr. Gary Sypek, Deputy Director of Airports – Airport Development
- Location:** Palm Beach County System of Airports (Airports): Palm Beach International Airport (PBI), North Palm Beach County General Aviation (F45), Palm Beach County Park Airport (LNA), and Palm Beach County Glades (PHK)
- Services:** Minimum Standards and Rules and Regulations Review and Update
- Scope:** Aviation Management Consulting Group (AMCG) will review and update the existing Rules and Regulations and Minimum Standards for the Palm Beach County System of Airports (System). The work plan is provided in **Attachment A**.
- Fees:** Based on the scope of services, attached work plan, and AMCG's experience with similar projects, the review and update of existing Minimum Standards and Rules and Regulations will be provided for \$101,625.
- Expenses:** An expense allocation of \$9,000 is included in the Fees identified herein to cover the direct (project-related) expenses for the scope of services and work plan.
- The expense allocation includes two site visits that will consist of two persons for the first site visit for a maximum of three days on-site (first site visit) and one person for a maximum of two day on-site (second site visit). Any direct (project-related) expenses incurred by AMCG in excess of the expense allocation would be reimbursed to AMCG (at cost without mark-up).
- Direct (project-related) expenses include: air and ground transportation, lodging, subsistence, and costs for outside services (e.g., overnight or courier service, copying, printing, and document production/duplication, etc.).*
- Schedule:** Notwithstanding circumstances beyond AMCG's control and based on AMCG's experience with similar projects, the scope of services and work plan can be completed within 6 to 9 months from the initial site visit date.
- Other:** Fees and expenses (and completion of the project in accordance with the schedule) are dependent on the: (1) quality, composition, and timeliness of the information provided to/obtained by the AMCG team and (2) the time required by the Department, it's representatives, or others to review draft work products and/or provide comments.
- A signed agreement will be required to commence work on the project.

PMCD Review and Update

Aviation Management Consulting Group (AMCG) will review and update the System’s existing Rules and Regulations, Minimum Standards, and related documents (i.e., General Aviation Operator and Lessee Application, Commercial Operator Permit, and a Non-Commercial Self-Fueling Permit) each of which is further described below. Rules and Regulations and Minimum Standards are one of several Primary Management and Compliance Documents (PMCDs).

PMCDs are a compendium of documents that govern the operation, management, and development of an airport. In combination, PMCDs: (1) contribute to the financial health of an airport; (2) foster orderly development of land and improvements; (3) promote the provision of quality products, services, and facilities; (4) protect the health, safety, interest, and general welfare of the public; (5) reduce the potential for conflict with lessees, operators, consumers, and users; and (6) provide a platform for resolution of complaints.

Within this context, PMCDs set the stage and establishes the parameters for the way an airport conducts business. While PMCDs are interrelated, each document functions independently. Beyond serving the intended purpose, PMCDs need to be consistent with (not duplicate) the Airport Sponsor Assurances, applicable legal requirements, and other compliance related directives issued by the FAA and applicable state aviation agencies. An overview of each PMCD deliverable is provided in this section, with the exception of the Leasing Policy, Rent Policy, Fee Policy, and Development Standards which are not included in the proposed scope of work.

Rules and Regulations

This PMCD sets forth the rules and regulations for the safe, orderly, and efficient operation and use of an airport and provides the general provisions and defined words that are common to all PMCDs. The purpose of rules and regulations is to protect the public health, safety, interest, and welfare on an airport and to restrict any activity or action that would interfere with the safe, orderly, and efficient operation and use of an airport.

Airport policymakers, management, and staff will be able to utilize this PMCD to educate and inform airport users about the requirements for using the airport and/or engaging in activities at the airport. In addition to being relevant, reasonable, and appropriate for the airport, the market, and the activities, an airport sponsor should only establish rules and regulations that the airport sponsor is ready, willing, or able to enforce.

Minimum Standards

This PMCD sets forth the minimum requirements that need to be met as a condition for conducting commercial general aviation aeronautical activities at an airport. The purpose of minimum standards is to provide a fair and reasonable opportunity, without unjust discrimination, to applicants to qualify, or otherwise compete, to occupy available airport land and/or improvements and engage in authorized commercial general aviation aeronautical activities at an airport.

By providing consistent threshold requirements for engaging in such activities at an airport, airport policymakers, management, and staff will be able to utilize this PMCD to level the playing field and promote fair competition among commercial aeronautical operators. Consistent with the objectives established by the FAA, minimum standards should (1) promote safety, (2) protect airport users, (3) maintain and enhance the availability of services, (4) promote the orderly development of an airport, and (5) ensure operational efficiency.

Other Related Documents

General Aviation Operator and Lessee Application

A General Aviation Operator and Lessee Application (Application) assists airport policymakers, management, and staff in obtaining, reviewing, and evaluating the information, data, and documentation from parties who are interested in leasing land and/or improvements and/or engaging in commercial general aviation aeronautical activities at the airport.

Commercial Operator Permit

A Commercial Operator Permit is used by airport policymakers, management, and staff to convey permission to parties (who have completed an Application and been approved) to engage in commercial general aviation aeronautical activities at the airport.

Non-Commercial Self-Fueling Permit

A Non-Commercial Self-Fueling Permit is used by airport policymakers, management, and staff to convey permission to parties (who have completed an Application and been approved to engage in non-commercial self-fueling at the airport.

To accomplish the proposed scope of services for the **Minimum Standards and Rules and Regulations Review and Update** (herein referred to as PMCD or PMCDs), AMCG would complete the following tasks:

TASK 1: INFORMATION COLLECTION, REVIEW, AND ANALYSIS

Collect, review, and analyze relevant information, data, and documentation on the community, market, Airport, aviation businesses, and non-commercial aeronautical entities located at the Airports. This will include an inventory of the land and improvements (by leasehold, by component) currently being leased/used; the products, services, and facilities currently being provided; and the vehicles, equipment, and personnel currently being deployed by the commercial aeronautical businesses at the Airport. An information request will be provided to Client to help facilitate the collection of information. Review other related Client documents to identify any conflicts that may currently exist or could exist in the future with the update of the PMCDs.

TASK 2: FIRST SITE VISIT – PROJECT INITIALIZATION

Conduct a site visit at the Airports to include: (1) a project initialization meeting with Client representatives, (2) meetings with select stakeholders (i.e., representatives of the commercial aeronautical businesses and/or non-commercial entities) – as determined by the Client working in collaboration with AMCG and based on available budget and schedule, and (3) a public/stakeholder meeting that can be attended by the larger community, Airports' users, and other interested parties to learn about the PMCD development project.

The purpose of the first site visit will be to gain a better understanding of: (1) the current operating environment at the Airports, (2) the goals that have been established by the Client for the Airports (in general) and PMCDs (in particular), and (3) the key issues, problems, and/or challenges relating to (associated with) this project.

TASK 3: DRAFT EXPANDED PMCD TABLE OF CONTENTS

Develop and provide for Client review a draft expanded PMCD table of contents based on AMCG's review of the Airports' existing PMCDs.

TASK 4: FIRST WORKING SESSION – DRAFT EXPANDED PMCD TABLE OF CONTENTS

Conduct a working session (by telephone or web-based meeting software) with Client to review draft expanded PMCD table of contents and provide comments, identify questions, and make recommendations. Discuss with Client if separate PMCDs for each airport or single system PMCD documents should be developed.

TASK 5: FIRST DRAFT OF PMCDs FOR CLIENT REVIEW

Develop and provide for Client review (e.g., airport management and staff) first draft of the PMCDs based on the information collected, reviewed, and analyzed in Task 1, the first site visit conducted in Task 2, the draft expanded PMCD table of contents developed in Task 3, and the comments provided, questions identified, and recommendations made by Client during the first working session.

The first draft of the PMCDs will be appropriate, reasonable, and relevant for the Airports, markets, and activities occurring (or reasonably anticipated to occur) at the Airports and consistent and compliant with the:

- Federal Aviation Administration (FAA) Airport Sponsor Assurances (dated March 2014) and
- consistent with all other applicable FAA compliance-related directives including:
 - Advisory Circular (AC) 150/5100-16A (AIP, Grant Assurance Number One – General Federal Requirements)
 - AC 150/5150-2B (Federal Surplus Personal Property for Public Airport Purposes)
 - AC 150/5190-6 (Exclusive Rights at Federally Obligated Airports)
 - AC 150/5190-7 (Minimum Standards for Commercial Aeronautical Activities)
 - Policy and Procedures Concerning the Use of Airport Revenue, FAA Order 5100.38A (Airport Improvement Program Handbook)
 - Order 5190.6B (Airports Compliance Manual)

In addition to being clear, concise, and well organized, the PMCDs will complement (not duplicate) the other governing documents for the Airports and other legal requirements. AMCG proposes that each PMCD be a separate (standalone) document (i.e., the documents will not be combined with other documents or consolidated).

To ensure that Minimum Standards are relevant, reasonable, and appropriate for the Airports, the markets, and the activities, AMCG utilizes a comprehensive approach that will consider the: (1) commercial aeronautical activities occurring at the Airports (including the land and improvements being leased/used, the type, level, and quality of aeronautical products, services, and facilities being provided, and the vehicles, equipment, and personnel being deployed), (2) the commercial aeronautical activities occurring at comparable and competitive airports, and (3) the requirements of the Airports' customers.

The draft PMCDs will be provided in protected PDF format for review and comment by Client and interested parties (public and stakeholders). Using this format for working documents ensures that the integrity of the work product and the thoughtful management and discussion (as

necessary) of all requested changes, additions, and deletions have been adequately addressed. By utilization of PDF format, AMCG can ensure that all requested changes, additions, and deletions are fully incorporated into each document while maintaining consistency in language, defined terms, and form. Throughout the process, AMCG will identify and discuss with Client how requested modifications may impact other areas of the PMCDs.

TASK 6: SECOND WORKING SESSION

Conduct a working session (by telephone or web-based meeting software) with Client to review first draft of PMCDs and provide comments, identify questions, and make recommendations.

TASK 7: SECOND DRAFT OF PMCDs FOR CLIENT REVIEW

Revise first draft of the PMCDs based on the comments provided, questions identified, and recommendations made by Client during the second working session and provide second draft of the PMCDs for Client review (e.g., airport management, staff, and internal/external advisors – legal, risk, etc.).

TASK 8: THIRD WORKING SESSION

Conduct a working session (by telephone or web-based meeting software) with Client to review second draft of PMCDs and provide comments, identify questions, and make recommendations.

TASK 9: THIRD DRAFT OF PMCDs FOR CLIENT AND STAKEHOLDER REVIEW

Revise second draft of the PMCDs based on the comments provided, questions identified, and recommendations made by Client during the third working session and provide third draft of the PMCDs for Client review.

In addition, provide the third draft of the PMCDs for review and comment by stakeholders. AMCG will utilize a dedicated website for dissemination of the PMCDs to the stakeholders and facilitate stakeholder comments.

TASK 10: SECOND SITE VISIT AND FOURTH WORKING SESSION

Conduct a site visit at Airports to include (1) a stakeholder meeting facilitated by AMCG to discuss comments (and obtain input) and (2) a working session with Client to review third draft of the PMCDs; review stakeholder comments and input to determine if (a) change is not merited, (b) change is merited (as formulated by Client), or (3) change is merited (as formulated by Client in collaboration with AMCG); and provide comments, identify questions, and make recommendations.

TASK 11: FOURTH DRAFT OF PMCDs FOR CLIENT REVIEW

Revise third draft of the PMCDs based on the comments provided, questions identified, and recommendations made by Client during the second site visit and fourth working session and provide fourth draft of the PMCDs for Client review.

TASK 12: FIFTH WORKING SESSION

Conduct a working session (by telephone or web-based meeting software) with Client to review fourth draft of PMCDs and provide comments, identify questions, and make recommendations.

TASK 13: FINAL PMCDs

ATTACHMENT A – WORK PLAN

Revise fourth draft of the PMCDs based on the comments provided, questions identified, and recommendations made by Client during the fifth working session and provide Client final PMCDs for approval and adoption.

Task I-22-DOA-A-058: DOA Minimum Standards and Rules and Regulations

Billing Rate:		\$ 315	\$ 225	\$ 170	\$ 155	\$ 80
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Labor Estimate (Hours)

Fee Estimate (\$)

Task Description	Managing Principal	Senior Aviation Consultant	Managing Aviation Analyst	Senior Aviation Analyst	Clerical	Total	Labor	Expenses	Total
1.0 TASK 1: INFORMATION COLLECTION, REVIEW, AND ANALYSIS	5	10	15	20	4	54	\$ 9,795		\$ 9,795
2.0 TASK 2: FIRST SITE VISIT – PROJECT INITIALIZATION	3	28	28	10	4	73	\$ 13,875	\$ 6,000	\$ 19,875
3.0 TASK 3: DRAFT EXPANDED PMCD TABLE OF CONTENTS	5	8	12	12	2	39	\$ 7,435		\$ 7,435
4.0 TASK 4: FIRST WORKING SESSION – DRAFT EXPANDED PMCD	0	3	3	3	1	10	\$ 1,730		\$ 1,730
5.0 TASK 5: FIRST DRAFT OF PMCDS FOR CLIENT REVIEW	12	16	36	40	5	109	\$ 20,100		\$ 20,100
6.0 TASK 6: SECOND WORKING SESSION	0	5	5	5	1	16	\$ 2,830		\$ 2,830
7.0 TASK 7: SECOND DRAFT OF PMCDS FOR CLIENT REVIEW	8	12	14	16	3	53	\$ 10,320		\$ 10,320
8.0 TASK 8: THIRD WORKING SESSION	0	8	8	8	1	25	\$ 4,480		\$ 4,480
9.0 TASK 9: THIRD DRAFT OF PMCDS FOR CLIENT AND STAKEHOLDER	5	8	10	12	1	36	\$ 7,015		\$ 7,015
10.0 TASK 10: SECOND SITE VISIT AND FOURTH WORKING SESSION	0	12	3	3	2	20	\$ 3,835	\$ 3,000	\$ 6,835
11.0 TASK 11: FOURTH DRAFT OF PMCDS FOR CLIENT REVIEW	3	6	8	8	1	26	\$ 4,975		\$ 4,975
12.0 TASK 12: FIFTH WORKING SESSION	0	4	4	4	1	13	\$ 2,280		\$ 2,280
13.0 TASK 13: FINAL PMCDS	3	4	6	6	2	21	\$ 3,955		\$ 3,955
Total Fee - Aviation Management Consulting Group	44	124	152	147	28	495	\$ 92,625	\$ 9,000	\$ 101,625

Prepared by: Aviation Management Consulting Group

EXHIBIT A-6

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-6

Miscellaneous Architectural, Planning, Engineering and Construction Services

**Palm Beach County Park/Lantana Airport (LNA)
North Palm Beach County General Aviation Airport (F45)
Task I-22-DOA-A-059: LNA and F45 PAPIs Replacement**

OVERVIEW

The Palm Beach County Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-22-DOA-A-059: LNA and F45 PAPIs Replacement at Palm Beach County Park/Lantana Airport and North Palm Beach County General Aviation Airport. The scope of work for this Project includes developing construction documents to be utilized by the DOA for Publicly Bidding the Project.

PROJECT TEAM

The Project Team for the PAPIs replacement will consist of:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	Project Management; Obstruction Survey Review; Planning and Design
Quantum Spatial, Inc. (SUBCONTRACTOR)	Obstruction Survey and Mapping
Quantum Electrical Engineering, Inc. (SUBCONTRACTOR)	Electrical design services

PROJECT OBJECTIVE AND APPROACH

For LNA: Includes record drawing reviews, on-site electrical verifications, and visual assessment of existing conditions. Includes airfield electrical plans reflecting replacement of the six (6) PAPI Systems for Runways 4-22, 10-28 and 16-34 with new current powered PAPI Systems. Also includes new conductor and conduit systems, PAPI installation details and demolition plans of existing PAPI electrical systems. Includes electrical plans reflecting the modification to the existing airfield electrical vault for three (3) new PAPI regulators, extension of existing cable tray system and the demolition of the existing PAPI panelboard and associated PAPI step-up transformer.

For F-45: Includes airfield electrical plans reflecting replacement of the four (4) PAPI Systems for Runways 9R-27L and 14-32 with new current powered PAPI Systems. Also includes new conductor and conduit systems, PAPI installation details and demolition plans of existing PAPI

electrical systems. Includes electrical plans reflecting the modification to the existing airfield electrical vault for three (2) new PAPI regulators and modification to existing busduct.

Due to *Engineering Brief #95 Additional Siting and Survey considerations for Precision Approach Path Indicator (PAPI) and Other Visual Glide Slope Indicators (VGSI)*, an obstruction survey of the Obstacle Clearance Surface (OCS) during the design phase is required. Quantum Spatial, Inc. will complete the obstruction survey and mapping and this will be reviewed by AECOM.

SITE SURVEY (Phase 1)

The following elements are included as part of this phase:

- a) Kick-off meeting will be held with DOA and Design Team prior to task beginning in order to discuss site survey, project, and goals.
- b) Coordination for survey and site visits will be made with Airport Operations at each airport.
- c) Develop surface and dimensions for identification of and mapping of obstruction obstacles.
- d) Identification and mapping of obstruction obstacles associated with the PAPIs for LNA Runways 4-22, 10-28, and 16-34.
- e) Identification and mapping of obstruction obstacles associated with the PAPIs for F45 Runways 9R-27L and 14-32.
- f) A meeting to summarize findings and results from the obstruction survey will be completed at the end of this phase.

Deliverables (Phase 1)

1. Kick-Off Meeting Minutes
2. Identification and mapping of obstruction obstacles
3. Meeting Minutes from Survey Results Meeting.

CONTRACT DOCUMENTS (90%) (Phase 2)

AECOM will develop 90% Contract Documents following the survey phase. The following elements are included as part of this task:

The 90% Contract Plans will include, but are not limited to:

1. Cover Sheet
2. Drawings Index / Summary of Quantities/General Notes
3. LNA Staging and Haul Route Plan
4. F45 Staging and Haul Route Plan
5. LNA Construction Phasing and Security Notes and Details
6. F45 Construction Phasing and Security Notes and Details
7. LNA Existing Conditions
8. F45 Existing Conditions
9. PAPI Foundations Details
10. Electrical Plans and Details

Any findings of during this phase will be summarized and any changes to the project due to unforeseen conditions will be brought to the attention of the DOA.

During this phase, the 90% review meeting will be held with DOA and Design Team to evaluate the proposed plans and design intent. Any findings during this phase will be summarized and any changes to the project due to unforeseen conditions will be brought to the attention of the DOA.

Deliverables (Phase 2)

1. 90% Design Documents
 - o Contract Drawings - Four (4) sets of half size prints;
 - o Estimate of Probable Construction Cost;
 - o Technical Specifications;
 - o Engineer's Report;
2. Meeting Minutes from the 90% Review Meeting.

CONTRACT DOCUMENTS (100%) (Phase 3)

Following the 90% Contract Documents approval the CONSULTANT will develop "Final" 100% Complete Contract Documents. They will consist of the information contained in the 90% documents, as well as incorporate any comments provided and by DOA, or other authorized reviewers, as directed by DOA. The following elements are included as part of this task:

The 100% Contract Plans will include, but are not limited to:

1. Cover Sheet
2. Drawings Index / Summary of Quantities/General Notes
3. LNA Staging and Haul Route Plan
4. F45 Staging and Haul Route Plan
5. LNA Construction Phasing and Security Notes and Details
6. F45 Construction Phasing and Security Notes and Details
7. LNA Existing Conditions
8. F45 Existing Conditions
9. PAPI Foundations Details
10. Electrical Plans and Details

During this phase, the 100% review meeting will be held with DOA and Design Team to evaluate the proposed plans and design intent. Any findings during this phase will be summarized and any changes to the project due to unforeseen conditions will be brought to the attention of the DOA.

Deliverables (Phase 3)

The CONSULTANT will deliver the following major Deliverables for this Phase:

- a) 100% Contract Drawings (Four sets of half-size prints);
- b) 100% Project Manual - Technical Specifications, Front Ends and FAA General Provisions;
- c) Engineer's Report;
- d) 100% Project Cost Budget Estimates; and
- e) Meeting minutes from the 100% Review Meeting;

BIDDING AND AWARD OF CONTRACT DOCUMENTS (Phase 4)

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids via the County's Vendor Self-Service Website. CONSULTANT will support the DOA in conducting a pre-bid to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda as appropriate to interpret and clarify or expand the Bidding Documents during the Bidding phase; and attend the bid opening, prepare bid tabulation sheets and assist DOA in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment and services.

3.1 Meetings

The CONSULTANT will attend the following meetings during this Phase:

- a. One (1) Pre-Bid Meeting; and,
- b. One (1) Bid Opening Meeting;

3.2 Deliverables

The CONSULTANT will deliver the following major Deliverables for this Phase:

- a. Four (4) sets of Bidding Documents;
- b. Electronic Bid Documents;
- c. Applicable Addenda during Bidding process;
- d. Pre-Bid Agenda and Meeting Minutes;
- e. Bid Tabulation of Bids; and,
- f. Bid Recommendation Letter for Award.

PROJECT SCHEDULE

AECOM anticipates to complete the site survey phase following 60 days after NTP. AECOM anticipates to submit the 90% Contract Documents following 120 days after NTP. AECOM anticipates to submit the 100% Contract Documents following 150 days after NTP. AECOM anticipates to complete the bid phase and this project within 165 Calendar Days from NTP for the work specific to the AECOM for this Task. This schedule does not include expected DOA review times.

PROJECT ASSUMPTIONS

AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform all other coordination with LNA and F45 airport operations and related services that are not listed.

The following assumptions were made pertaining to the design approach and pricing based on AECOM's understanding of the DOA's PAPI systems.

- No ADIP uploads.
- DOA will provide Front End Contract Documents and all changes recommended by the CONSULTANT shall be reviewed by the DOA.
- DOA will resolve any obstructions discovered during the Site Survey (Phase 1).
- Construction Administration and Resident Project Representative Services are not included in this scope of services. The CONSULTANT will gladly perform Construction Administration and Resident Project Representative Services via a separate task order.

Exhibit B-6

Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-22-DOA-A-059: LNA and F45 PAPIs Replacement

Billing Rate:	\$ 181	\$ 247	\$ 219	\$ 182	\$ 120	\$ 89	\$ 90
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Task Description		Labor Estimate (Hours)							Fee Estimate (\$)			
		QC Reviewer	Senior Project Manager	Senior Planner	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total
Task I-22-DOA-A-059												
PHASE 1 - SITE SURVEY	Total	0	6	15	0	71	0	2	94	\$13,467	\$0	\$13,467
Kick-Off Meeting			2	2		2			6	\$ 1,172	\$ -	\$ 1,172
Team Coordination Meetings			1	1		1			3	\$ 586	\$ -	\$ 586
Coordinate Project Site Visits / Survey						4			4	\$ 480	\$ -	\$ 480
Perform Site Visits						8			8	\$ 960	\$ -	\$ 960
Develop PAPI OCS and LCSC Surface Slope and Dimensions.				8		40			48	\$ 6,552	\$ -	\$ 6,552
Obstruction Survey Review				2		16			18	\$ 2,358	\$ -	\$ 2,358
Memorandum to Summarize Survey Results			1	2					3	\$ 685	\$ -	\$ 685
Task Management			2					2	4	\$ 674	\$ -	\$ 674
PHASE 2 CONTRACT DOCUMENTS (90% SUBMITTAL)	Total	6	10	4	22	44	0	2	88	\$13,896	\$0	\$13,896
90% Design Submittal Deliverables:									0	\$ -	\$ -	\$ -
90% Design Development Drawings:									0	\$ -	\$ -	\$ -
Cover Sheet (90%).						1			1	\$ 120	\$ -	\$ 120
Drawings Index / Summary of Quantities/General Notes (90%).						2			2	\$ 240	\$ -	\$ 240
LNA Staging and Haul Route Plan (90%).					1	2			3	\$ 422	\$ -	\$ 422
F45 Staging and Haul Route Plan (90%).					1	2			3	\$ 422	\$ -	\$ 422
LNA Existing Conditions					2	4			6	\$ 844	\$ -	\$ 844
F45 Existing Conditions					2	4			6	\$ 844	\$ -	\$ 844
PAPI Foundation Details					2	3			5	\$ 724	\$ -	\$ 724
90% Technical Specifications			2		4	4			10	\$ 1,702	\$ -	\$ 1,702
90% Engineer's Report				4	8	16			28	\$ 4,252	\$ -	\$ 4,252
90% Project Construction Cost Estimate					2	2			4	\$ 604	\$ -	\$ 604
ISO 9001 - QA/QC Review		6	2						8	\$ 1,580	\$ -	\$ 1,580
90% Review Meeting			4			4			8	\$ 1,468	\$ -	\$ 1,468
Task Management			2					2	4	\$ 674	\$ -	\$ 674

Exhibit B-6

Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-22-DOA-A-059: LNA and F45 PAPIs Replacement

Billing Rate:		\$ 181	\$ 247	\$ 219	\$ 182	\$ 120	\$ 89	\$ 90
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Task Description	Labor Estimate (Hours)								Fee Estimate (\$)			
	QC Reviewer	Senior Project Manager	Senior Planner	Design Manager	Project Engineer	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total	
Task I-22-DOA-A-059												
PHASE 3 CONTRACT DOCUMENTS (100% SUBMITTAL)	Total	6	14	2	20	30	0	2	74	\$12,402	\$0	\$12,402
100% Design Submittal Deliverables:									0	\$ -	\$ -	\$ -
100% Design Development Drawings:									0	\$ -	\$ -	\$ -
Cover Sheet (100%).									0	\$ -	\$ -	\$ -
Drawings Index / Summary of Quantities/General Notes (100%).					1	1			1	\$ 120	\$ -	\$ 120
LNA Staging and Haul Route Plan (100%).					1	1			2	\$ 302	\$ -	\$ 302
F45 Staging and Haul Route Plan (100%).					1	1			2	\$ 302	\$ -	\$ 302
LNA Existing Conditions					1	2			3	\$ 422	\$ -	\$ 422
F45 Existing Conditions					1	2			3	\$ 422	\$ -	\$ 422
PAPI Foundation Details					2	4			6	\$ 844	\$ -	\$ 844
100% Technical Specifications		2			2	3			7	\$ 1,218	\$ -	\$ 1,218
100% Front End Specifications & FAA General Provisions					6	6			12	\$ 1,812	\$ -	\$ 1,812
100% Engineer's Report		2	2		4	4			12	\$ 2,140	\$ -	\$ 2,140
100% Project Construction Cost Estimate			2		2	2			6	\$ 1,098	\$ -	\$ 1,098
ISO 9001 - QA/QC Review		6	2						8	\$ 1,580	\$ -	\$ 1,580
100% Review Meeting			4			4			8	\$ 1,468	\$ -	\$ 1,468
Task Management			2					2	4	\$ 674	\$ -	\$ 674

December 21, 2020

AECOM Technical Services, Inc.
Mr. Andy Kacer P.E.
Southeast Aviation Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – Palm Beach County Park Airport (LNA) and North County Airport (F45) PAPI Replacement Project.

Dear Andy:

Quantum Electrical Engineering, Inc. (QUANTUM) is pleased to provide AECOM an electrical services fee proposal for Palm Beach County Park Airport (LNA) and North County Airport (F45) PAPI Replacement Project. The following tasks are included in our scope of services:

Task 1 – Palm Beach County Park Airport (LNA) PAPI Replacement

- Includes design coordination meetings with the DOA and AECOM Team.
- Includes record drawing reviews, on-site electrical verifications, and visual assessment of existing conditions.
- Includes airfield electrical plans reflecting replacement of the six (6) PAPI Systems for Runways 4-22, 10-28 and 16-34 with new current powered PAPI Systems. Also includes new conductor and conduit systems, PAPI installation details and demolition plans of existing PAPI electrical systems.
- Includes electrical plans reflecting the modification to the existing airfield electrical vault for three (3) new PAPI regulators, extension of existing cable tray system and the demolition of the existing PAPI panelboard and associated PAPI step-up transformer.
- Includes all electrical and regulator calculations. The design shall be per Airport requirements, FAA, NEC and County codes & standards criteria.
- Includes Bid and Award Services, addenda revisions, RFI/permitting comment revisions, review of bid pricing results and electrical recommendation.

Task 2 – North County Airport (F45) PAPI Replacement

- Includes design coordination meetings with the DOA and AECOM Team.
- Includes record drawing reviews, on-site electrical verifications, and visual assessment of existing conditions.
- Includes airfield electrical plans reflecting replacement of the four (4) PAPI Systems for Runways 9R-27L and 14-32 with new current powered PAPI Systems. Also includes new conductor and conduit systems, PAPI installation details and demolition plans of existing PAPI electrical systems.

Palm Beach County
2755 Vista Parkway, Suite I-9
West Palm Beach, FL 33411
561.210.9224

www.QuantumElectricalEngineering.com

Broward County
5571 N. University Drive, Suite 101
Coral Springs, FL 33067
954.369.5810

- Includes electrical plans reflecting the modification to the existing airfield electrical vault for three (2) new PAPI regulators and modification to existing busduct.
- Includes all electrical and regulator calculations. The design shall be per Airport requirements, FAA, NEC and County codes & standards criteria.
- Includes Bid and Award Services, addenda revisions, RFI/permitting comment revisions, review of bid pricing results and electrical recommendation.

Exclusions and Assumptions

- AECOM shall provide all base drawings to QUANTUM on AutoCAD 2020 or higher.
- QUANTUM shall provide 1-set of electronic electrical plans & specifications to AECOM for 90%, 100% reviews, permit documents and bid documents.
- AECOM shall provide all printing of Plans & Specifications for reviews, bid phase, permits and construction phases.
- Does not include any kind of PAPI siting, survey, Obstacle Clearance Surface (OCS) Penetration Evaluation and Light Signal Clearance Surface (LSCS) Evaluation.
- Does not include construction services.

Our proposed Lump-Sum fee for Task 1 is:	\$12,899.87
Our proposed Lump-Sum fee for Task 2 is:	\$ <u>9,651.82</u>
Our proposed total Lump-Sum fee is:	\$22,551.69

(See attachment breakdown)

Sincerely,



Amy L. Champagne-Baker, PE
President

Palm Beach County
2755 Vista Parkway, Suite I-9
West Palm Beach, FL 33411
561.210.9224

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Broward County
5571 N. University Drive, Suite 101
Coral Springs, FL 33067
954.369.5810

**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS - LNA AND F45 PAPI REPLACEMENT PROJECT.
 QUANTUM ELECTRICAL ENGINEERING, INC.
 SCOPE FEE SUMMARY
 FEE PROPOSAL ELECTRICAL DESIGN to AE 12/21/2020**

	Rate	\$161.54	\$144.23	\$138.46	\$69.23	\$46.15			
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Clerical	Total			TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Expenses	TASK COST	
Task 1: LNA PAPI Replacement Design Documents									
90% Design Documents									
Design Review Mtgs DOA, AE		1				1			\$144.23
Demolition, Phasing & Temporary drawings		8	8	16		32			\$3,369.20
Electrical Design Drawings		8	8	16		32			\$3,369.20
Specifications & Cost Estimate		2	4		2	8			\$934.60
QA/QC & Comment Incorporation			2	4		6			\$553.84
Subtotal	0	19	22	36	2	79			\$8,371.07
100% Design Documents									
Design Review Mtgs DOA, AE		1				1			\$144.23
Demolition, Phasing & Temporary drawings		2	2	4		8			\$842.30
Electrical Design Drawings		4	4	8		16			\$1,684.60
Specifications & Cost Estimate		2	2		2	6			\$657.68
QA/QC & Comment Incorporation			2	4		6			\$553.84
Subtotal	0	9	10	16	2	37			\$3,882.65
Bid & Award									
Pre-Bid Meeting		1				1			\$144.23
Review of Bid Results & Recommendation		1				1			\$144.23
RFI Responses		2		1		3			\$357.69
Subtotal	0	4	0	1	0	5			\$646.15
Task 1 Subtotal									\$12,899.87
Task 2: F45 PAPI Replacement Design Documents									
90% Design Documents									
Design Review Mtgs DOA, AE		1				1			\$144.23
Demolition, Phasing & Temporary drawings		4	6	12		22			\$2,238.44

Electrical Design Drawings		4	8	16		28		\$2,792.28
Specifications & Cost Estimate		2	4		2	8		\$934.60
QA/QC & Comment Incorporation			2	4		6		\$553.84
Subtotal	0	11	20	32	2	65		\$6,663.39
100% Design Documents								
Design Review Mtgs DOA, AE		1				1		\$144.23
Demolition, Phasing & Temporary drawings		1	1	2		4		\$421.15
Electrical Design Drawings		2	2	4		8		\$842.30
Specifications & Cost Estimate		2	2		2	6		\$657.68
QA/QC & Comment Incorporation			1	2		3		\$276.92
Subtotal	0	6	6	8	2	22		\$2,342.28
Bid & Award								
Pre-Bid Meeting		1				1		\$144.23
Review of Bid Results & Recommendation		1				1		\$144.23
RFI Responses		2		1		3		\$357.69
Subtotal	0	4	0	1	0	5		\$646.15
Task 2 Subtotal								
								\$9,651.82
Grand Total Hours	0	53	58	94	8	213		\$22,551.69
Grand Total Labor Cost	\$0.00	\$7,644.19	\$8,030.68	\$6,507.62	\$369.20			



November 30, 2020

Mr. Andy Kacer *PE*
Project Manager
AECOM
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Project: Palm Beach County Park Airport (LNA) and North Palm Beach County Airport (F45) –
PAPI Siting and Obstruction Surveys

Dear Mr. Kacer,

This summary of work describes our understanding of the scope of work and services required for the Palm Beach County Park Airport (LNA) and North Palm Beach County Airport (F45) located in Palm Beach County, Florida.

Summary of Work

We understand that the purpose of this project is to accomplish obstruction identification due to the replacement of PAPIs for LNA Runways 4/22, 10/28, and 16/34 and F45 Runways 9R/27L and 14/32. Quantum Spatial will evaluate PAPI OCS and LCSC for each of the runways identified in accordance with Engineering Brief No.95. For each PAPI, AECOM will provide the surface slope to be used in the analysis.

For this project, we will acquire new vertical stereo aerial photography (leaf-on) at a nominal scale of 1"= 2,662' for the defined limits as shown in the exhibits below using a Digital Mapping Camera II-140. From the acquired imagery we will produce the following:

- Identification and mapping of obstruction obstacles associated with the PAPIs for LNA Runways 4/22, 10/28, and 16/34
- Identification and mapping of obstruction obstacles associated with the PAPIs for F45 Runways 9R/27L and 14/32

Quality Standards

The project has been designed to conform to the National Map Accuracy Standards for planimetric feature collection. We will exercise reasonable care and will conform to the standards of practice ordinarily used by the photogrammetric profession.

Project Area

The project area is shown on the attached exhibits.

Control Surveying

The aerial photography will be completed with ABGPS control which will be used for the base control for the geo-referencing of the aerial imagery. Quantum Spatial will process the ABGPS data using COR stations and reference it to the project control datums:

- Horizontal: North American Datum of 1983/2011 (NAD 83(NSRS2011), in the FL State Plane Coordinate System East Zone, in US Survey feet



- Vertical: North American Vertical Datum of 1988 (NAVD 88) and ellipsoid heights

We will be responsible for:

- Obtaining all necessary ground control photo identifiable control check points required to validate the ABGPS control. Quantum Spatial staff will provide information on the specific locations required to support the ABGPS control.

Production Schedule

We will work with you to finalize a mutually agreeable schedule for the project.. However, should the project be interrupted by technical problems beyond our control, including control deficiencies or map file re-deliveries rescheduling may become necessary.

Deliverables

NO DATA WILL BE DELIVERED TO THE FAA AGIS WEBSITE. ALL DATA COLLECTED WILL BE DONE TO NATIONAL MAP ACCURACY STANDARDS.

We will deliver the following items to AECOM:

- Obstruction obstacles as they relate to the PAPI OCS and LCSC surface in a CSV format

All digital files will be delivered on external hard drive.

Cost and Payment Terms

Compensation for obstruction surveys, airspace analysis and orthophoto production will be provided as a lump sum cost as shown below.

Palm Beach County Park Airport (LNA) – U.S. \$55,260 (individual project)

North Palm Beach County Airport (F45) – U.S. \$41,620 (individual project)

LNA and F45 Airports – U.S. \$85,435 (combined project)

Client Responsibilities

The successful and timely completion of this project is dependent upon a number of elements and work tasks, some of which involve participation by AECOM. AECOM will also be responsible for designating a representative for the project who will have the authority to transmit instructions, receive information, and make timely decisions with respect to the services provided by Quantum Spatial.

Quantum Spatial, Inc Representative

Jill Mahoney, Project Manager and Marlin Zook, Technical Manager, will represent us during the performance of the services to be provided under this agreement. Each has the authority to transmit and receive instructions and make decisions with respect to the services. Each is authorized to commit the necessary resources towards completing the services described herein.



We look forward to working with you and your staff to complete this project in a timely and cost-effective manner. Should you have any questions, please call me at (803) 351-3136 or email me at the address shown below.

Sincerely,

Quantum Spatial, Inc.

David Grigg
Aviation Program Director
dgrigg@quantumspatial.com

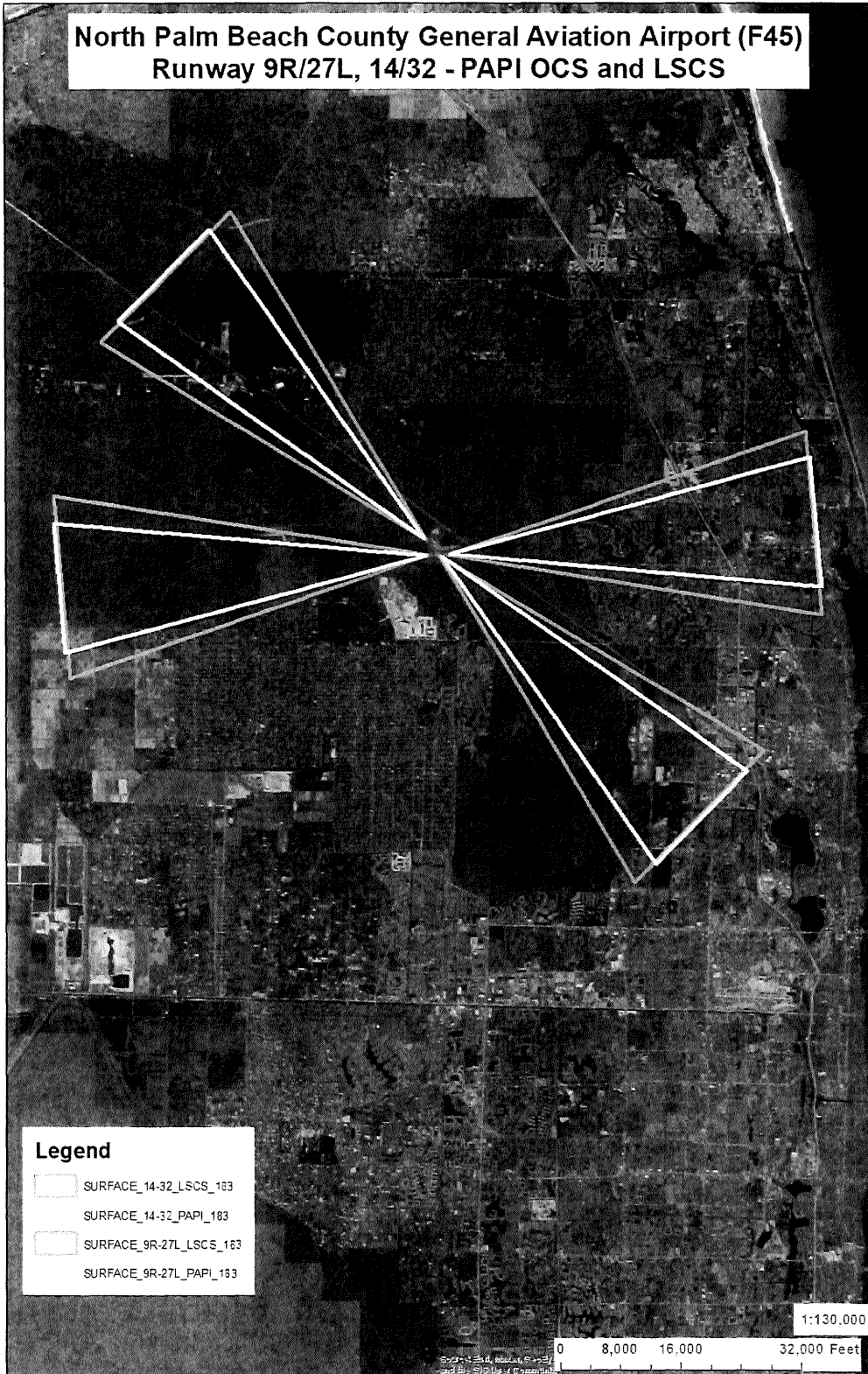


Table																									
<table border="1" style="width: 100%;"> <tr> <td style="width: 15%;">Billing Rate:</td> <td style="width: 10%;"></td> <td style="width: 10%;">\$ 272</td> <td style="width: 10%;">\$ 180</td> <td style="width: 10%;">\$ 183</td> <td style="width: 10%;">\$ 121</td> <td style="width: 10%;">\$ 101</td> <td style="width: 10%;">\$ 174</td> <td style="width: 10%;">\$ 129</td> <td style="width: 10%;">\$ 168</td> <td style="width: 10%;">\$ 84</td> </tr> </table>															Billing Rate:		\$ 272	\$ 180	\$ 183	\$ 121	\$ 101	\$ 174	\$ 129	\$ 168	\$ 84
Billing Rate:		\$ 272	\$ 180	\$ 183	\$ 121	\$ 101	\$ 174	\$ 129	\$ 168	\$ 84															
Labor Estimate (Hours)												Fee Estimate (\$)													
Task Description		Production Manager	Project Manager	Acquisition Lead	Survey Coordinator	Acquisition Tech	Geospatial Lead	Geospatial Tech	GIS Lead	GIS Tech	Total	Labor	Expenses	Total											
PAPI Siting and Obstruction Surveys																									
1.0	Survey and Analysis										0	\$ -	\$ -	\$ -											
1.10	Imagery		4								4	\$ 719.64	\$ 14,905	\$ 15,625											
1.20	Obstruction Survey and Airport Airspace Analysis	16	12	24	20	80	82	190	20	52	496	\$ 67,857.86	\$ 1,952	\$ 69,810											
Total Fee - Quantum Spatial		16	16	24	20	80	82	190	20	52	500	\$ 68,578	\$ 16,857	\$ 85,435											

EXHIBIT A-7

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-7

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach International Airport (PBI A)

Task I-22-PBI-A-060: PBI A Airfield Electric Vault Building Expansion

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (CONSULTANT) provide Professional Services associated with the Task I-22-PBI-A-060: PBI A Airfield Electric Vault Building Expansion (Project) at the Palm Beach International Airport (PBI A). The scope of work for this Project includes providing professional engineering services for building & life safety code analysis, schematic design, cost estimating at each project phase, 60%, 90% & 100% construction documents, permit documents, and bid documents for the scope of work describe below.

A brief overview of pertinent tasks to be performed by the CONSULTANT for this Project includes:

1. Attend one (1) DOA design kick-off meeting and meeting minutes;
2. Coordinate one (1) Internal design team kick-off meeting;
3. Attend one (1) field coordination meeting;
4. Attend three (3) DOA submittal review meetings, including preparation of meeting agenda and meeting minutes (60%, 90%, and 100% Contract Documents);
5. Coordinate data collection, records research and review of as-built information;
6. Develop project cost estimate;
7. Prepare 60%, 90%, and 100% Contract Documents, which includes: technical specifications, drawings, cost estimates, and CSPP with the 90% and 100% deliverables;
8. Prepare and assemble bid documents, which includes the project manual, drawings, and CSPP; and,
9. Bid and award support to the DOA.

SCOPE OF SERVICES

This task will be carefully coordinated by the Team provided below:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	Project Management, civil design, development of base sheets, coordination between disciplines and quality review
Colome' & Associates, Inc. (SUBCONTRACTOR)	Architectural services
Johnson, Levinson, Ragan, Davila, Inc. (SUBCONTRACTOR)	Mechanical, Plumbing, and Fire Protection design and support
Quantum Electrical Engineering, Inc. (SUBCONTRACTOR)	Electrical, lighting, security (Systems). Engineering Support
Master Consulting Engineers, Inc. (SUBCONTRACTOR)	Structural design
Brown & Phillips, Inc. (SUBCONTRACTOR)	Topographic Survey
Tierra South Florida, Inc. (SUBCONTRACTOR)	Geotechnical Services

Building Expansion Design

This Project expands the existing vault by approximately 2,500 square feet. The new expanded electrical vault will include the increase of the electrical capacity for up to ten future regulators for the future runway. It will also include four new regulators to facilitate the phasing and relocation of existing regulators and conductors to provide the required life safety clearances. The existing ALCMS control system, fiber optic cables, communication wiring, power wiring, and regulators will be relocated into the expanded vault space. A new standby emergency power generator with subbase fuel tank and weatherproof enclosure will also be included.

The building addition will accommodate new staff workstations, unisex restroom, Hi-Lo drinking fountain, janitor's closet, parts storage, equipment work area, electrical equipment expansion capabilities, electrical room, and mechanical room. The interior renovations of approximately 980 square feet including reconfiguration of existing restroom and workstation areas, modifications to the existing south building exterior wall to create a new interior opening to the proposed expansion, and relocation of the existing south wall electrical equipment and components. Fee is based on our on-site meeting with DOA representatives on January 31, 2020. The existing HVAC system equipment and capacity will be evaluated to verify conformity to current building code requirements. Existing restroom exhaust fan and ductwork shall be demolished. New restroom exhaust system shall be provided for the new restroom provided in the building expansion. Provide mechanical and plumbing code compliant construction documents and specifications to coordinate with architectural renovations to the existing building and the new building expansion. All HVAC system equipment and design shall comply with the latest versions of applicable building codes and requirements set forth by the authorities having jurisdiction. Perform HVAC cooling load calculations and ventilation air calculations for the existing building and new building

expansion to be supported by one new HVAC system. An alternate shall be provided for two separate HVAC systems depending on the cooling zone requirements as approved by DOA.

A new septic tank and drainage field will be designed to accommodate the new bathroom. Site improvements will be made to accommodate the building expansion and septic system design. This scope assumes that the well currently in use at the existing vault will accommodate the expanded facility.

BASIC SERVICES

Preliminary Investigation (Task 1)

This effort will include a design kickoff meeting with all stakeholders, data collection and record document review, a site visit, topographic survey to support design, and geotechnical investigations. The initial meeting with the DOA and our team is included to establish the parameters and expectations, by the DOA, of this project.

Task 1 Deliverables

- a. Kick-off meeting minutes.

Schematic Design (Task 2)

A schematic design highlighting the *architectural* components and layout of the proposed expansion will be provided under this task. This effort will include developing, reviewing, and submitting the conceptual architectural schematic design. No cost estimate or specifications will be prepared as part of this task.

A design review meeting with the DOA will be held to review the schematic design. AECOM will incorporate applicable input, from this review meeting into the 60% Contract Documents.

Task 2 Deliverables

- a. PDF copies of the Schematic Design
- b. Schematic Design review meeting minutes

Contract Documents (60%) (Task 3)

This task will take the approved conceptual architectural schematic design and develop the 60% Contract Documents. The 60% Contract Documents will develop the items referenced in the Building Expansion Design section into plans, technical specifications, a CSPP, and construction cost estimate.

A design review meeting will be held with the DOA to review the submitted 60% Contract Documents and cost estimate.

Task 3 Deliverables

- a. PDF copies of the 60% Documents (plans, technical specifications, CSPP, and cost estimate)
- b. 60% review meeting minutes

Contract Documents (90% Submittal) (Task 4)

AECOM will incorporate comments provided by the DOA at the 60% review meeting and further the develop the plans, specifications, CSPP, and cost estimate into the 90% Contract Documents.

Task 4 Deliverables

- a. PDF copies of the 90% Documents (plans, technical specifications, CSPP, and cost estimate)
- b. 90% review meeting minutes

100% Construction /Permit Documents (Task 5)

AECOM will incorporate comments provided by the DOA at the 90% review meeting and further the develop the plans, specifications, CSPP, and cost estimate into the 100% Contract Documents / Permitting Documents.

Task 5 Deliverables

- a. PDF copies of the 100% Documents (plans, front end and technical specifications, CSPP, and cost estimate)
- b. PDF copies of the Permit Documents to be electronically submitted to Palm Beach County PZ&B
- c. 100% review meeting minutes

Bid & Award Services (Task 6)

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids via the County's Vendor Self-Service Website. CONSULTANT will support the DOA in conducting a pre-bid to share pertinent bidding and technical information and requirements with prospective bidders; issue addenda as appropriate to interpret and clarify or expand the Bidding Documents during the Bidding phase; and attend the bid opening, prepare bid tabulation sheets and assist DOA in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment and services.

Task 6 Deliverables

- a. PDF copy of the Bid Documents
- b. Pre-Bid Meeting Agenda and Meeting Minutes
- c. Addenda as required during the bid process
- e. Bid Tabulation
- f. Bid Recommendation Letter

Assumptions:

- DOA will provide all record documents applicable to this task.
- DOA will pay for all permitting costs.
- The DOA will submit the permit documents to the County PZ&B.
- Fire protection system design and calculation is not included.
- The roof will drain by scuppers, roof drains and overflow systems is not included.
- Construction Administration and Resident Project Representative Services are not included in this scope of services. If requested, the CONSULTANT will perform Construction Administration and Resident Project Representative Services via a separate task order. The threshold inspection services are not included in this scope of

services and shall be included in the Construction Administration and Resident Project Representative Services scope.

- In providing opinions of probable construction costs, the DOA understands that the CONSULTANT has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinions of probable construction costs provided herein are to be made based on the CONSULTANT'S qualifications and experience. The CONSULTANT makes no warranty, expressed or implied, as to the accuracy of such opinions as compared to bid or actual costs.
- CONSULTANT shall not be responsible for the means, methods, techniques, and sequences, procedures of construction or selection of materials selected by the Contractor or the safety precautions and programs incident to the work of the Contractor. The CONSULTANT shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the Contractor to perform the construction work in accordance with the Contract Documents.

Deliverables and Estimated Duration

Deliverable	Days From NTP
Schematic Design Phase	30 Days
60% Contract Documents	60 Days
90% Contract Documents	90 Days
100% Construction / Permitting Documents	120 Days
Bid Documents	150 Days

Task I-22-PBI-A-060: PBI Airfield Electric Vault Building Expansion
Labor/Fee Estimate Summary - AECOM

Billing Rate: \$ 247 \$ 181 \$ 185 \$ 120 \$ 90

Task Description	Labor Estimate (Hours)						Fee Estimate (\$)		
	Senior Project Manager	QC Reviewer	Senior Engineer	Project Engineer	Clerical	Total	Labor	Expenses	Total
1.0 TASK 1 - PRELIMINARY INVESTIGATION	6	0	8	10	0	24	\$ 4,162	\$ 500	\$ 4,662
Design Kickoff Meeting	2			2		4	\$ 734	\$ -	\$ 734
Data Collection, Site Visit, and Review of Existing Conditions	2		6	6		14	\$ 2,324	\$ 500	\$ 2,824
Coordination and Task Management	2		2	2		6	\$ 1,104	\$ -	\$ 1,104
2.0 TASK 2 - ARCHITECTURAL SCHEMATIC DESIGN (60%)	2	2	2	6	2	14	\$ 2,126	\$ 250	\$ 2,376
Cover Sheet			2	2		4	\$ 610	\$ -	\$ 610
Submit Drawings		2		2	2	6	\$ 782	\$ -	\$ 782
DOA Review Meeting	2			2		4	\$ 734	\$ 250	\$ 984
2.0 TASK 3 - CONTRACT DOCUMENTS (60%)	6	8	27	60	6	107	\$ 15,665	\$ -	\$ 15,665
Cover Sheet				1		1	\$ 120	\$ -	\$ 120
Drawing Index and General Notes			2	2		4	\$ 610	\$ -	\$ 610
Overall Site Plan and Construction Haul Route and Staging Area			2	2		4	\$ 610	\$ -	\$ 610
Survey Control and Geotechnical Boring Plan			2	2		4	\$ 610	\$ -	\$ 610
Existing Conditions Plan			2	8		10	\$ 1,330	\$ -	\$ 1,330
Civil Site Plan			4	12		16	\$ 2,180	\$ -	\$ 2,180
Septic Tank and Drainage Field Plans and Details			6	14		20	\$ 2,790	\$ -	\$ 2,790
CSPP			4	8		12	\$ 1,700	\$ -	\$ 1,700
Assemble / Submit 60% Contract Documents		6		4	4	14	\$ 1,926	\$ -	\$ 1,926
Cost Estimate		2	2	2		6	\$ 972	\$ -	\$ 972
DOA Review Meeting	3			3		6	\$ 1,101	\$ -	\$ 1,101
Coordination and Task Management	3		3	2	2	10	\$ 1,716	\$ -	\$ 1,716
3.0 TASK 4 - CONTRACT DOCUMENTS (90% SUBMITTAL)	6	10	23	54	2	95	\$ 14,207	\$ -	\$ 14,207
Cover Sheet			1	1		2	\$ 305	\$ -	\$ 305
Drawing Index and General Notes			1	2		3	\$ 425	\$ -	\$ 425
Overall Site Plan and Construction Haul Route and Staging Area			1	1		2	\$ 305	\$ -	\$ 305
Survey Control and Geotechnical Boring Plan			1	1		2	\$ 305	\$ -	\$ 305
Existing Conditions Plan			2	4		6	\$ 850	\$ -	\$ 850
Civil Site Plan			2	12		14	\$ 1,810	\$ -	\$ 1,810
Septic Tank and Drainage Field Plans and Details			6	14		20	\$ 2,790	\$ -	\$ 2,790
CSPP			4	8		12	\$ 1,700	\$ -	\$ 1,700
Assemble / Submit 90% Contract Documents		8		4		12	\$ 1,928	\$ -	\$ 1,928
Cost Estimate		2	2	2		6	\$ 972	\$ -	\$ 972
DOA Review Meeting	3			3		6	\$ 1,101	\$ -	\$ 1,101
Coordination and Task Management	3		3	2	2	10	\$ 1,716	\$ -	\$ 1,716
4.0 TASK 4 - 100%/PERMIT DOCUMENTS	8	10	28	48	2	96	\$ 14,906	\$ 250	\$ 15,156
Cover Sheet				1		1	\$ 120	\$ -	\$ 120
Drawing Index and General Notes			2	2		4	\$ 610	\$ -	\$ 610
Overall Site Plan and Construction Haul Route and Staging Area			1	1		2	\$ 305	\$ -	\$ 305
Survey Control and Geotechnical Boring Plan			1	1		2	\$ 305	\$ -	\$ 305
Existing Conditions Plan			2	4		6	\$ 850	\$ -	\$ 850
Civil Site Plan			2	8		10	\$ 1,330	\$ -	\$ 1,330
Septic Tank and Drainage Field Plans and Details			3	8		11	\$ 1,515	\$ -	\$ 1,515
CSPP			4	8		12	\$ 1,700	\$ -	\$ 1,700
Assemble / Submit 100% Contract Documents		8	4	8		20	\$ 3,148	\$ -	\$ 3,148
Prepare Front End Documents	2		4	2		8	\$ 1,474	\$ -	\$ 1,474
Cost Estimate		2	2	2		6	\$ 972	\$ -	\$ 972
DOA Review Meeting	3			3		6	\$ 1,101	\$ 250	\$ 1,351
Coordination and Task Management	3		3		2	8	\$ 1,476	\$ -	\$ 1,476

Task I-22-PBI-A-060: PBIA Airfield Electric Vault Building Expansion
Labor/Fee Estimate Summary - AECOM

Billing Rate:		\$ 247	\$ 181	\$ 185	\$ 120	\$ 90
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Task Description	Labor Estimate (Hours)					Fee Estimate (\$)			
	Senior Project Manager	QC Reviewer	Senior Engineer	Project Engineer	Clerical	Total	Labor	Expenses	Total
5.0 TASK 5 - Bidding Phase	12	7	20	12	0	51	\$ 9,371	\$ 250	\$ 9,621
Submit Bid Documents		4	2	8		14	\$ 2,054	\$ -	\$ 2,054
Coordination and Task Management	2		4			6	\$ 1,234	\$ -	\$ 1,234
Prepare for and Attend Pre-Bid Meeting	4		4			8	\$ 1,728	\$ 250	\$ 1,978
Addenda and Contractor Questions	4	2	8			14	\$ 2,830	\$ -	\$ 2,830
Bid Recommendation Letter	2	1	2	4		9	\$ 1,525	\$ -	\$ 1,525
Total Fee - AECOM Technical Services, Inc.	40	37	108	190	12	387	\$ 60,437	\$ 1,250	\$ 61,687

Subconsultant Fees

1	Total Subcontractor Fee - Colome & Associates (LS)	\$ 70,413
	Total Subcontractor Fee - Colome & Associates (Expenses)	\$ 250
2	Total Subcontractor Fee - Quantum (LS)	\$ 63,732
	Total Subcontractor Fee - Quantum (Expenses)	\$ -
3	Total Subcontractor Fee - JLRD (LS)	\$ 9,770
	Total Subcontractor Fee - JLRD (Expenses)	\$ 179
4	Total Subcontractor Fee - Master (LS)	\$ 9,917
	Total Subcontractor Fee - Master (Expenses)	\$ 203
5	Total Subcontractor Fee - Brown & Phillips (T&M)	\$ 2,418
	Total Subcontractor Fee - Brown & Phillips (Expenses)	\$ -
6	Total Subcontractor Fee - Tierra South Florida (T&M)	\$ 4,335
	Total Subcontractor Fee - Tierra South Florida (Expenses)	\$ -
GRAND TOTAL FEE - BASIC ENGINEERING SERVICES		\$ 222,904

Lump Sum	\$ 214,269
Expenses	\$ 1,882
T&M	\$ 6,753
Total	\$ 222,904

Prepared by: AECOM Technical Services, Inc.

Revised – May 11, 2020

Mr. Andy Kacer, P.E.
AECOM
2090 Palm Beach Lakes Blvd., Suite 600
West Palm Beach, Florida 33409

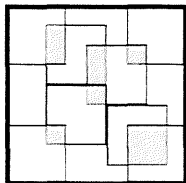
Re: **PBIA Airfield Electrical Vault Building Expansion**
Architectural Design / Permitting / Bidding Phases
Palm Beach International Airport - West Palm Beach, Florida

Dear Mr. Kacer:

Our Firm – Colomé' & Associates, Inc. (Architect) – would like to thank you for the opportunity to provide AECOM with this proposal for architectural professional services for the proposed building expansion and interior renovations to the existing Electrical Vault Building located on the airfield at Palm Beach International Airport in West Palm Beach, Florida.

The project will consist of a building addition of approximately 2,300 square feet to accommodate new staff workstations, unisex restroom, Hi-Lo drinking fountain, janitor's closet, parts storage, equipment work area, electrical equipment expansion capabilities, electrical room, and mechanical room. The interior renovations of approximately 980 square feet including reconfiguration of existing restroom and workstation areas, modifications to the existing south building exterior wall to create a new interior opening to the proposed expansion, and relocation of the existing south wall electrical equipment and components. Fee is based on our on-site meeting with DOA representatives on January 31, 2020.

The project will consist of providing architectural professional services for building & life safety code analysis, schematic design, cost estimating at each project phase, 60% construction documents, 90% construction documents, 100% construction documents, permit documents, and bid documents for the scope of work describe above.



Colomé & Associates, Inc.

Florida Registration AA0003439

Architecture □ Planning □ Interiors

530 24th Street □ West Palm Beach, Florida 33407 □ Telephone: (561) 833-9147 □ Facsimile: (561) 833-9356 □ E-mail: colome@colome-arch.net



- Architectural Design and Construction Documents

Based on the approved conceptual design plans submittal to be prepared by this office, provide architectural working drawings and specifications, described in detail sufficient for construction, coordination with civil, structural, mechanical, electrical, and plumbing engineers, and interior finish selections within the completed set of construction documents. Interior furnishing shall be selected and purchased by Palm Beach County.

- Preparation and Permitting Submissions

- Prepare documents for permitting submission to the Palm Beach County Building Department. Included is responding to building permit review comments.

- Bidding

- Assist AECOM in preparation of addenda and respond to General Contractor's or Construction Manager's RFI's during bidding process.

- Expenses – The Architect shall be paid for all expenses such as owner requested reproduction, postage and plotting expenses as an addition to the basic compensation at a stipulated lump sum of two hundred fifty (\$250.00) dollars.

- Fees

- Architectural Design, Construction Documents, Bidding, and Expenses – Architectural Design: Fees for performing services as outlined above shall be based upon the stipulated lump sum of seventy thousand six hundred sixty two dollars and eighty one (\$70,662.81) cents.

The schedule and estimated architectural task completion is per the AECOM Scope:

- Schematic Design phase
- 60% Construction Document phase
- 90% Construction Document phase
- 100% Construction Document phase
- Permit / Bidding phase
- Construction Administration phase

Fee Breakdown:

Architectural - Design / Construction Document / C.A. Phase	\$70,412.81
Expenses	\$ 250.00
Total Fee	\$70,662.81

- Additional Services

- Additional Services as requested by the Owner shall be based on the Architectural Hourly Basis as set forth in the executed AECOM Contract Agreement for Architectural Services or stipulated lump sum.
- Items excluded from this professional services fee proposal:


The following items are not included as part of this professional services fee proposal: This proposal does not include the certification or application process for green or sustainable building design, If the documentation or analysis (including life cycle analysis) of this building is required to meet Florida Statutes 255.251-255.259, this service can be provided as an "Additional Services", LEED design services, Fees related to project applications, registrations, and permitting, Palm Beach County – site plan approval or site plan amendment, coordination of Art in Public Places, construction administration phase services, infrastructure for temporary facilities during construction, Palm Beach County variance applications, re-zoning, plat/unity of title services, sound system design, interior design services, public announcement system design, acoustical design services, and re-design as a result of value engineering.

G24. FS558.0035. –PURSUANT TO FLORIDA STATUTE 558.0035, AN INDIVIDUAL EMPLOYEE OR AGENT MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

Sincerely,



Elizabeth A. G. Colome' – Architect

Labor/Fee Estimate Summary (Colome & Associates, Inc.) - DOA PBIA AIRFIELD ELECTRICAL VAULT BUILDING EXPANSION													
Billing Rate:		\$ 169.04	\$ 138.65	\$ 85.96	\$ 43.68								
 Colome' & Associates, Inc. ARCHITECTURE- PLANNING- INTERIORS Florida Registration - AA 0003438 530 24th Street West Palm Beach Florida 33407 Phone: (561) 833-9147 Fax: (561) 833-9356													
Labor Estimate (Hours)													
		Principal		Sn. Project Manager		Architect Drafting		Clerical		Labor Total	Expenses	Total	
Architectural Design, Construction Documents, Permit, & Bid Phases													
Task Description	Total										\$70,412.81	\$250.00	\$70,662.81
Architect Administration													
Kichoff Meeting				1	\$138.65	1	\$85.96		\$0.00	\$ 225		\$ 225	
Code Research / Life Safety Anylasis	2	\$338.08	12	\$1,663.80	1	\$85.96		\$0.00	\$ 2,088		\$ 2,088		
Coordination		\$0.00	4	\$554.60	12	\$1,031.52		\$0.00	\$ 1,586		\$ 1,586		
Design Coordination with DOA	1	\$169.04	4	\$554.60		\$0.00		\$0.00	\$ 724		\$ 724		
											\$4,622.21		
Architectural Building Programming													
Architectural Building Programming	2	\$338.08	18	\$2,495.70	12	\$1,031.52		\$174.72	\$ 4,040	\$ 50	\$ 4,090		
QA/QC & Production	1	\$169.04	2	\$277.30		\$0.00		\$0.00	\$ 446		\$ 446		
DOA Building Program Review Meeting		\$0.00	2	\$277.30	1	\$85.96		\$0.00	\$ 363		\$ 363		
Implement DOA Review Comments		\$0.00	4	\$554.60	6	\$515.76	1	\$43.68	\$ 1,114		\$ 1,114		
											\$6,013.66		
Architectural Schematic Design Documents													
Data Collection / Field Investigation / Create As-Builts	1	\$169.04	16	\$2,218.40	52	\$4,469.92		\$0.00	\$ 6,857		\$ 6,857		
Architectural CAD Baseplans & Schematic Design Drawings	2	\$338.08	6	\$831.90	88	\$7,564.48	1	\$43.68	\$ 8,778	\$ 50	\$ 8,828		
Cost Estimate		\$0.00	8	\$1,109.20		\$0.00	1	\$43.68	\$ 1,153		\$ 1,153		
QA/QC & Production	1	\$169.04	4	\$554.60		\$0.00		\$0.00	\$ 724		\$ 724		
DOA Design Review Meeting		\$0.00	2	\$277.30	1	\$85.96		\$0.00	\$ 363		\$ 363		
Implement DOA Review Comments		\$0.00	1	\$138.65	2	\$171.92		\$0.00	\$ 311		\$ 311		
											\$18,235.65		
60% Architectural Construction Documents													
Data Collection / Field Investigation		\$0.00	2	\$277.30	4	\$343.84		\$0.00	\$ 621		\$ 621		
Architectural 60% CD Drawings	2	\$338.08	20	\$2,773.00	112	\$9,627.52	1	\$43.68	\$ 12,782	\$ 50	\$ 12,832		
60% Architectural Specifications	1	\$169.04	8	\$1,109.20	4	\$343.84	2	\$87.36	\$ 1,709		\$ 1,709		
Cost Estimate		\$169.04	8	\$1,109.20	1	\$85.96	1	\$43.68	\$ 1,408		\$ 1,408		
QA/QC & Production	1	\$169.04	2	\$277.30		\$0.00		\$0.00	\$ 446		\$ 446		
DOA Design Review Meeting		\$0.00	2	\$277.30	1	\$85.96		\$0.00	\$ 363		\$ 363		
Implement DOA Review Comments		\$0.00	1	\$138.65	6	\$515.76		\$0.00	\$ 654		\$ 654		
											\$18,034.75		
90% Architectural Construction Documents													
Data Collection / Field Investigation		\$0.00	1	\$138.65	2	\$171.92		\$0.00	\$ 311		\$ 311		
Architectural 90% CD Drawings	2	\$338.08	20	\$2,773.00	112	\$9,627.52	1	\$43.68	\$ 12,782	\$ 50	\$ 12,832		
90% Architectural Specifications	1	\$169.04	8	\$1,109.20	2	\$171.92	2	\$87.36	\$ 1,538		\$ 1,538		
Cost Estimate		\$169.04	8	\$1,109.20		\$0.00		\$43.68	\$ 1,322		\$ 1,322		
QA/QC & Production	1	\$169.04	2	\$277.30		\$0.00	1	\$43.68	\$ 446		\$ 446		
DOA Design Review Meeting		\$0.00	2	\$277.30	1	\$85.96		\$0.00	\$ 363		\$ 363		
Implement DOA Review Comments		\$0.00	1	\$138.65	4	\$343.84		\$0.00	\$ 482		\$ 482		
											\$17,294.38		
100% CD / Permit Architectural Documents													
Architectural Drawings	2	\$338.08	4	\$554.60	6	\$515.76	1	\$43.68	\$1,452.12	\$ 50.00	\$ 1,502		
Architectural Specifications	1	\$169.04	1	\$138.65	1	\$85.96	1	\$43.68	\$437.33	\$ -	\$ 437		
Bldg. Department Comments	1	\$169.04	6	\$831.90	4	\$343.84	2	\$87.36	\$1,432.14		\$ 1,432		
											\$3,371.59		
Bidding Documents													
DOA/CM Coordination		\$0.00	4	\$554.60	4	\$343.84	1	\$43.68	\$ 942		\$ 942		
Pre-Bid Meeting		\$0.00	2	\$277.30		\$0.00		\$0.00	\$ 277		\$ 277		
Bid RFI Review / Response	1	\$169.04	6	\$831.90	8	\$687.68	1	\$43.68	\$ 1,732		\$ 1,732		
Bid Review - Recommendations		\$0.00	1	\$138.65		\$0.00		\$0.00	\$ 139		\$ 139		
											\$3,090.37		
Grand Total		25.00	\$4,226.00	193.00	\$26,759.45	448.00	\$38,510.08	21.00	\$917.28	\$70,412.81	\$250.00	\$70,662.81	

Source: Colome' & Associates, Inc.



JOHNSON, LEVINSON,
RAGAN, DAVILA, INC.
CONSULTING ENGINEERS

1450 Centrepark Boulevard, Suite 350
West Palm Beach, FL 33401
(561) 689-2303 • (561) 689-2302 Fax
www.jlrdinc.com

February 25, 2020 (Rev#1 05-11-2020)

Mr. Andrew Kacer, PE, Greater Florida Manager – Airports
AECOM Technical Services, Inc.
7650 West Courtney Campbell Causeway
Tampa, Florida 33607

Re: PBI Airfield Electrical Vault Extension

PALM BEACH COUNTY GENERAL CONSULTING SERVICES

Task Scope Sheet

SCOPE – Subcontractor Johnson, Levinson, Ragan, Davila, Inc. (JLRD)

We are pleased to provide the following proposal for professional engineering services in conjunction with the expansion of the airfield electrical vault. These services shall include HVAC and Plumbing design for the building renovations and building expansion at PBI thru AECOM. All services will be in compliance with the building code requirements for a Level 2 Alteration to an existing building and its systems along with the building expansion. A general description of the scope of work and clarifications are described as:

Mechanical:

1. Verify existing HVAC equipment performance and capacities to verify conformity to current building code requirements. Existing air handlers and condensers shall remain as-is and be inspected for continued use to serve as back-up cooling to the existing facility. If found to be deficient, JLRD will notify the Owner for resolution.
2. Existing restroom exhaust fan and ductwork shall be demolished. New restroom exhaust system shall be provided for the new men's and women's restroom provided in the building expansion.
3. Provide code compliant construction documents and specifications to coordinate with architectural renovations to the existing building and the new building expansion. All HVAC system equipment and design shall comply with the latest versions of applicable building codes and requirements set forth by the authorities having jurisdiction.
4. Conduct site visits as required, to observe conditions that will affect the HVAC design scope. Any discrepancies, that can be observed, will be brought to the attention of the Owner for resolution. Two site visits have been included.

Re: PBI Airfield Electrical Vault Extension

5. Perform HVAC cooling load calculations and ventilation air calculations for the existing building and new building expansion to be supported by one new HVAC system. An alternate shall be provided for two separate HVAC systems depending on the cooling zone requirements as approved by DOA. System type shall be of the direct expansion with split evaporator and condenser coil units utilizing the currently acceptable refrigerant of R-410a. Ductwork shall be provided for air distribution with grilles and diffusers.

Plumbing:

1. Verify existing plumbing fixture types and quantities in existing restrooms along with water/sanitary services to the building.
2. Provide code compliant construction documents and specifications to modify the existing plumbing systems to coordinate with architectural renovations, restroom expansion, and additional plumbing fixtures as required. It is assumed that the roof will drain to scuppers and no roof drains and overflow drains will be provided.

Construction Cost estimation:

1. Rough order of magnitude construction cost estimation shall be provided as it relates specifically to the scope of work provided as proposed.

PROJECT SCHEDULE

JLRD is scheduled to complete this project within the agreed upon submittal schedule for 60%, 90% and 100% construction document submissions and review periods following receipt of the Notice to Proceed.

PROJECT DELIVERABLES

Project Deliverables shall be 2 sets of signed and sealed drawings and specifications, one clean set of drawings and .pdf's.

PROJECT ASSUMPTIONS / GENERAL

1. JLRD shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the contractor or the safety precautions and programs incident to the work of the contractor. JLRD shall not guarantee the performance of the contractor nor be responsible for the acts, errors, omissions, or the failure of the contractor to perform the construction work in accordance with the Contract Documents.
2. JLRD will use a company vehicle and rental vehicle when needed to perform all Project related work. Cost for the rental vehicle, fuel, and use of the company vehicle have been included in the budget estimate.
3. JLRD will perform all services listed in this scope of services.
4. JLRD assumes that the contractor will be responsible for the following:
 - i. Verifying construction vehicles are properly marked, lighted, registered, and are in good operating condition
 - ii. Verifying barricades are placed in accordance with the construction drawings or as directed by Airport Operations;
 - iii. Provide consolidated red-line mark-ups for preparation of Record Drawings.
 - v. Provide JLRD with As-Built construction documents.

Mr. Andy Kacer, Greater Florida Manager – Airports
February 25, 2020

Re: PBI Airfield Electrical Vault Extension

5. In the event that the DOA and JLRD believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by JLRD, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.
6. JLRD understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. JLRD shall not have the authority or responsibility to accept or reject work done by the contractor and is only responsible for providing recommendations to the DOA based on the available information.

FEE:

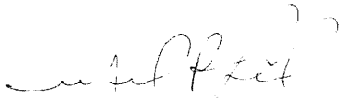
To provide the work presented, JLRD shall be paid a lump sum fee of Nine Thousand Nine Hundred Forty-Nine Dollars and Ten Cents (\$9,949.10)

SPECIFIC EXCLUSIONS:

1. Electrical portion of the work is not included.
2. Plumbing septic tank and drain field design is not included and assumed to be part of the civil scope of work.
3. Replacement of any rooftop equipment as a result of any roofing replacement. Any rooftop equipment being replaced shall be related only to the renovation of the spaces below, if required.
4. Fire Protection system design and calculations.
5. Plumbing roof drains and overflow systems.
6. Construction administration services such as shop drawing review, RFI responses, periodic site visits, commissioning, and as-built documentation.

Sincerely,

JOHNSON, LEVINSON, RAGAN, DAVILA, INC.



Michael P. Linden, PE, LEED AP®
Vice President

MPL/bev

AECOM PBIA Ground Transportation 2-10-2020 PRO.doc

DESIGN LABOR BREAKDOWN																	
TASK	HOURS													Tot	Cost		
	Principal		PE		Eng		Sr. Dsgn		Dsgn		Off Hours		CAD			SEC	
	200	200	130	130	85	85	120	120	75	75	128	128	55			65	
	M	E	M	E	M	E	M	E	M	E	M	E	-	-			
BASE DESIGN SCOPE																	
<i>General</i>																	
General Project Management	2														3	5	\$ 595.00
Study Existing As-Builts and Assessment Reports							1									1	\$ 120.00
																-	-
																-	-
<i>On-site Tasks</i>																	
Verify existing HVAC system, plumbing, and building envelope							4									4	\$ 480.00
Design Meetings (60%, 90%, 100% review)							3									3	\$ 360.00
HVAC Cooling Load Calculations							4									4	\$ 480.00
HVAC Equipment Selections							2									2	\$ 240.00
<i>Construction Documents</i>																	
M-01 Legend, General Notes, and Schedules							2						2			4	\$ 350.00
M-02 HVAC Demolition Plan							4						2			6	\$ 590.00
M-03 HVAC New Work Plan			0.5				8						4			12.5	\$ 1,245.00
M-04 HVAC Details							4						2			6	\$ 590.00
M-05 HVAC Controls			0.5				2						2			4.5	\$ 415.00
																-	-
P-01 Legend, General Notes, and Fixture Schedule			0.5				1						1			2.5	\$ 240.00
P-02 Plumbing Demolition Plan							2						3			5	\$ 405.00
P-03 Plumbing New Work Plan / Riser			0.5				3						3			6.5	\$ 590.00
P-04 Plumbing Details							1						1			2	\$ 175.00
																-	-
																-	-
																-	-
																-	-
Construction Cost Estimating				4												4	\$ 520.00
Specification Writing				6											3	9	\$ 975.00
QA/QC	1		2													3	\$ 460.00
Address Comments							4						6		2	12	\$ 940.00
BASE DESIGN SUBTOTAL	3	0	14	0	0	0	45	0	0	0	0	0	26	8	96	\$ 9,770.00	
CONSTRUCTION ADMINISTRATION																	
Shop Drawings																	
Pre-Con, Pre-Bid, Field Obs																	
RFIs and ASIs																	
As-Builts																	
CONSTRUCTION ADMIN SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JLRD DIRECT LABOR	3	0	14	0	0	0	45	0	0	0	0	0	26	8	96	\$ 9,770.00	
SUBCONTRACTORS																	
NONE																	
OH&P @ 10%																	\$ -
SUBCONTRACTOR SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
EXPENSES																	
<i>Travel</i>																	
Parking																	\$ -
<i>Overnights</i>																	
Hotel & Meals																	\$ -
<i>Reproduction</i>																	
Large Format Docs							9	3									\$ 89.10
8.5" x 11": Report, Systems Manuals							100	3									\$ 90.00
EXPENSES SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ 179.10
SUMMARY																	
JLRD DIRECT LABOR																	\$ 9,770.00
SUBCONTRACT																	-
EXPENSES																	\$ 179.10
PROJECT TOTAL																	\$ 9,949.10

QUANTUM

Electrical Engineering, Inc.

February 18th, 2020

AECOM Technical Services, Inc.
Mr. Andy Kacer P.E.
Southeast Aviation Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Design Services Fee Proposal for the Palm Beach County Department of Airports (DOA) –PBI Airfield Electrical Vault Improvements based on information provided by AECOM and Colome and Associates, Inc. dated 1/31/20.

Dear Andy:

Quantum Electrical Engineering, Inc. (QUANTUM) is pleased to provide AECOM an electrical design services fee proposal for the DOA PBI Airfield Electrical Vault Improvements Project. Quantum will provide all required electrical design for the modifications to the existing building and 2500 sqft. vault expansion based on the site visit conducted on 1/31/2020.

The following items are included in our scope:

Task 1 – Design Documents

- Includes record drawings reviews & on-site electrical verifications and assessment of existing conditions.
- Includes all electrical calculations. Design shall be per all DOA requirements, FAA, NEC and County codes & standards criteria.
- Includes electrical modifications to the existing vault modifications and new electrical systems for the new vault building extension. Including all installation details and plan layout for main / secondary normal & emergency electrical / control systems, electrical equipment, modification of the existing electrical distribution equipment, interior & exterior lighting, new cable trays, new conduit and conductors systems, vault expansion grounding systems, and lightning protection system.
- Includes extensive electrical demolition/phasing plans that will reflect required temporary power systems (equipment, cable & conduit systems, portable generators & etc.) during construction phases that will avoid any type of disruption to the Airfield electrical vault operations. Note: There will be designed / planned / DOA approved short period disruptions to normal & emergency power during daytime periods.
- Includes electrical capacity for up to ten future regulators for future runway. Also includes four new regulators to facilitate the phasing and relocation of existing regulators and conductors to provide the required life safety clearances.

Palm Beach County
2755 Vista Parkway, Suite I-9
West Palm Beach, FL 33411
561.210.9224

www.QuantumElectricalEngineering.com

Broward County
5571 N. University Drive, Suite 101
Coral Springs, FL 33067
954.369.5810

- Includes electrical design of new standby emergency power generator with subbase fuel tank and weatherproof enclosure for the airfield electrical vault to replace the existing airfield electrical vault. Generator to be sized to accommodate future runway expansion project.
- Includes relocation of existing ALCMS control system, fiber optic cables, communication wiring, power wiring and regulators into the expanded vault space.
- Includes new ductbank/conduit entry system design into the new airfield vault section to isolate circuit conductors for future ductbank/junction can plazas to the airfield.
- Includes electrical design to support the new & existing HVAC systems (by others) in vault.
- AECOM shall provide all base building & site drawings to AECOM on AutoCAD 2020.
- QUANTUM shall provide 1-set of electronic electrical plans & specifications to AECOM for 60%, 90%, 100% reviews, permit documents and bid documents.
- AECOM shall provide all printing of Plans & Specifications for reviews, bid phase, permits and construction phases.
- Does not include wind loading of structural items.
- Does not include any type of design for proposed generator foundation, design of communication, CCTV, or security systems.
- Does not include coordination study or arc flash analysis.
- Does not include construction services.

Task 2 – Bid & Award Services

- Includes Addenda revisions and Permitting comments revisions
- Includes Responding to Contractor Questions

Our proposed Lump-Sum fee for Task 1: 60% Design Documents is:	\$26,042.04
Our proposed Lump-Sum fee for Task 2: 90% Design Documents is:	\$16,505.59
Our proposed Lump-Sum fee for Task 3: 100% Design Documents is:	\$10,921.03
Our proposed Lump-Sum fee for Task 4: Permit & Bid Documents is:	\$ 8,163.35
Our proposed Lump-Sum fee for Task 5: Bid & Award is:	<u>\$ 2,099.98</u>
Our proposed total Lump-Sum fee is:	\$63,731.99

(See attachment breakdown)

Sincerely,



Amy L. Champagne-Baker, PE
President

Palm Beach County
2755 Vista Parkway, Suite I-9
West Palm Beach, FL 33411
561.210.9224

www.QuantumElectricalEngineering.com

Broward County
5571 N. University Drive, Suite 101
Coral Springs, FL 33067
954.369.5810

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PBI AIRFIELD ELECTRICAL VAULT REPAIRS										
QUANTUM ELECTRICAL ENGINEERING, INC.										
SCOPE FEE SUMMARY										
FEE PROPOSAL ELECTRICAL DESIGN to AE 2/18/2020										
	Rate	\$161.54	\$144.23	\$138.46	\$69.23	\$132.69	\$46.15			
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total		TOTAL	
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Expenses	TASK COST	
Task 1: Vault Improvements 60% Design										
Design Review Mtgs DOA, P&Z, AE		6				1	7		\$911.53	
On site verifications\Discovery Phase		24	16			4	44		\$5,861.48	
Demoliton, Phasing & Temporary drawings		10	18	16			44		\$5,042.26	
Generator Design Drawings		6	8	16			30		\$3,080.74	
Electrical Design Drawings		24	20	16			60		\$7,338.40	
Specifications & Cost Estimate		8	4			8	20		\$2,076.88	
QA/QC & Comment Incorporation		4	4	8		1	17		\$1,730.75	
Subtotal	0	82	70	56	0	14	222		\$26,042.04	
Task 2: Vault Improvements 90% Design										
Design Review Mtgs DOA, P&Z, AE		3				1	4		\$478.84	
Demoliton, Phasing & Temporary drawings		8	12	10			30		\$3,507.66	
Generator Design Drawings		4	8	8			20		\$2,238.44	
Electrical Design Drawings		14	20	12			46		\$5,619.18	
Specifications & Cost Estimate		10	6			8	24		\$2,642.26	
QA/QC & Comment Incorporation		6	4	8		1	19		\$2,019.21	
Subtotal	0	45	50	38	0	10	143		\$16,505.59	
Task 3: Vault Improvements 100% Design										
Design Review Mtgs DOA, P&Z, AE		3				1	4		\$478.84	
Demoliton, Phasing & Temporary drawings		8	6	4			18		\$2,261.52	
Generator Design Drawings		4	6	6			16		\$1,823.06	
Electrical Design Drawings		6	12	8			26		\$3,080.74	
Specifications & Cost Estimate		4	4			6	14		\$1,407.66	
QA/QC & Comment Incorporation		4	6	6		1	17		\$1,869.21	
Subtotal	0	29	34	24	0	8	95		\$10,921.03	
Task 4: Vault Improvements Bid & Permit										
Design Review Mtgs DOA, P&Z, AE		3				1	4		\$478.84	
Demoliton, Phasing & Temporary drawings		2	4	2			8		\$980.76	
Generator Design Drawings		2	2	2			6		\$703.84	
Electrical Design Drawings		4	8	4			16		\$1,961.52	
Specifications & Cost Estimate		2	2			2	6		\$657.68	
QA/QC & Comment Incorporation		2	2	2		1	7		\$749.99	
Addenda & Permitting Comment Revisions		8	4	8		8	28		\$2,630.72	
Subtotal	0	23	22	18	0	12	75		\$8,163.35	
Task 2: Bid & Award Services										
Responding to Contractor Questions		4					4		\$576.92	
Addenda and Permitting Comments		8		4		2	14		\$1,523.06	
Subtotal	0	12	0	4	0	2	18		\$2,099.98	
Grand Total Hours	0	191	176	140	0	46	553		\$63,731.99	
Grand Total Labor Cost	\$0.00	\$27,547.93	\$24,368.98	\$9,692.20	\$0.00	\$2,122.90			\$63,731.99	

February 18, 2020

Mr. Christopher Rive.
AECOM

RE: Palm Beach International Airport.
Electric Vault improvements

Dear Mr. Rive:

Master Consulting Engineers, Inc. (MCE) is pleased to present this proposal for structural engineering services for the improvements to the Electric Vault Building at the Palm Beach International Airport.

Project Description:

Based on information and drawings provided, the following is MCE's understanding and assumptions of the required tasks for this project:

- a) An existing single-story building will be analyzed to verify its compliance with today's hurricane wind loads code requirements.
- b) An expansion to the existing building will be done in the south side and it will be similar in size to the adjacent room.
- c) A new generator pad and screen wall will be installed on the west side of the building.

MCE Basic Scope of Service for this project is limited to:

- a) Structural analysis of the existing building and design of the strengthening to meet the requirements of today's building code hurricane wind pressures.
- b) Design of the new addition located to the south of the existing building.
- c) Design of a generator pad and screen wall.
- d) MCE deliverable includes 60%, 90% and 100% documents plus bid documents.
- e) We will provide wind loads design pressures to be used by windows, doors manufacturer and exterior walls and skin manufacturer.
- f) Coordination meetings during the design phase will be done personally or via web meetings.

Any service not included in the Project Description, Basic Scope of Services are considered Additional services and will be billed as per customary schedule of charges included herein. This project is not a threshold building therefore MCE will not perform periodic visits.

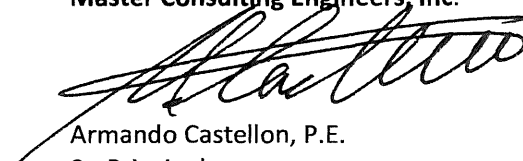
Information and Services provided by the Client:

The Client shall provide the following information and/or services for performance of the Basic Scope of Services indicated above:

- a) Base sheet drawings in AutoCAD or Revit submitted to MCE electronically. Drawings should be provided without any third party software applications.
- b) Since this is an addition to an existing building, the as built drawings (structural) must be submitted to properly analyze the areas that will be affected by the addition. If not drawings are available, a testing lab must be contracted to verify foundation sizes, wall reinforcement, concrete physical properties, etc.
- c) **Geotechnical Engineering – Soils Testing Report. Any redesign required because the geotechnical report was not provided prior to our foundation design, will be billed as additional charges.**
- d) Sign and seal Engineering documents (Calculations and Drawings) for those elements to be designed by a delegated engineer and that are not included in the Basic Scope of Services including but not limited to Metal Pan Stairs, Exterior Stud walls. Ample time for review must be provided as indicated above.
- e) Notification at least 4 days prior to any inspection to allow scheduling, a more precise day and time can be provided within 24 hrs. notice.
- f) Steel connections (Welds and Bolts) Calculations with Steel Shop Drawings Signed and sealed by a Registered Professional Engineer in the State where the Project is being built, including roof metal deck connection to supporting elements.
- g) Steel Connections testing reports from a testing lab signed and sealed by a Registered Professional Engineer in the State where the project is being built.
- h) Concrete test reports from a testing lab signed and sealed by a Registered Professional Engineer in the State where the project is being built.

MCE proposes to provide the Basic Scope of Services indicated above for a lump sum fee of **\$9,917.00**. A detailed schedule of charges is included in Appendix "A" for information. MCE will cover the expense of sending drawings, reports, shop drawings using regular mail. If special delivery, overnight delivery or any other service is requested, those charges will be billed at our cost.

Very truly yours,
Master Consulting Engineers, Inc.


Armando Castellon, P.E.
Sr. Principal



MASTER
CONSULTING
ENGINEERS, INC.
 STRUCTURAL CONSULTANTS

APPENDIX "A"

Task	Principal		Senior Project Engineer		Project Engineer		Structural CAD Technician		Line Item cost	Sub-total by Task
	Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate		
		\$184.80		\$111.06		\$92.55		\$84.08		

Project

Task 1 - Information Gathering										
		Hours	Rate	Hours	Rate	Hours	Rate	Hours	Rate	Sub-total
I	Request all drawings, reports and any helpful information for the building. Review the information and provide recommendations of areas that need to be checked by a testing lab to determine the existing structural members sizes and reinforcement that are hidden from clear sight.	0.25	\$ 46.20	1	\$ 111.06		\$ -		\$ -	\$157.26
II	Site visit to observe existing building	2	\$ 369.60		\$ -	2	\$ 185.10		\$ -	\$554.70
III	Calculate the Wind Pressures and create diagrams with all pressures.	0.25	\$ 46.20		\$ -	2	\$ 185.10	4	\$ 336.32	\$567.62
			\$ -		\$ -		\$ -		\$ -	\$0.00
										\$1,279.58
Task 2 - Building Analysis / strengthening and Construction documents for expansion										
I	Analysis of the structure to determine the integrity of the building and compliance with today's hurricane code.	1	\$ 184.80	2	\$ 222.12	6	\$ 555.30		\$ -	\$962.22
II	Design of strengthening to existing walls for hurricane loads.	0.5	\$ 92.40	1	\$ 111.06	4	\$ 370.20	8	\$ 672.64	\$1,246.30
III	Design of new building expansion	2	\$ 369.60	4	\$ 444.24	16	\$ 1,480.80	36	\$ 3,026.88	\$5,321.52
IV	Generator foundation slab and screen wall	0.25	\$ 46.20	1	\$ 111.06	3	\$ 277.65	8	\$ 672.64	\$1,107.55
										\$8,637.59

Engineering fee	\$9,917.17
Estimated Expenses, printing, delivery	\$203.30
Total Fee	\$10,120.47

Structural Engineering | Threshold Inspections | Forensic Engineering

February 14, 2020

Mr. Christopher Rive
AECOM
christopher.rive@aecom.com

**Re: Palm Beach International Airport (PBIA) Electric Vault Building and Apron Improvements -
Topographic Survey**

Dear Christopher:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

SCOPE OF SERVICES

I. PROJECT DESCRIPTION

We will perform a topographic survey to support the design of expansion and improvements to the existing electric vault building and apron at Palm Beach International Airport (PBIA). The survey limits for the area to be surveyed are shown on Attachment 'B'.

II. TOPOGRAPHIC SURVEY

Utilizing Airport Control from our previous surveys, we will perform a complete topographic survey at the site for the area clouded in pink on Attachment 'B', tying in all above ground features. This will include, but not be limited to, buildings, pavement, walks, utilities, and drainage structures. We will obtain elevations on the site on a 25' grid. We will locate sufficient points to give an accurate representation of the lay of the land.

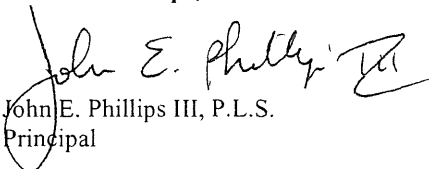
III. AS-BUILT

We will attempt to get as-built information on all the pipes leading out of any storm or sanitary sewer structures found. We will show invert elevations, pipe sizes and materials for all pipes located including outfall pipes.

IV. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide AECOM with hard copies, a digitally signed PDF file, and an AutoCAD file in the version requested. Any additional work will be done on an hourly basis as approved by you. We will perform the scope of services for a **not-to-exceed time and materials fee of \$2,417.89** (see Attachment 'A' for an hourly breakdown). Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Brown & Phillips, Inc.


John E. Phillips III, P.L.S.
Principal

Attachment

JEP/mb

This Proposal accepted this _____ day of _____, 2020

By: _____
AECOM

Print Name: _____

Title: _____

1860 Old Okeechobee Road • Suite 509 • West Palm Beach, Florida 33409
(561) 615-3988 • Fax (561) 615-3991

ATTACHMENT 'A'

Palm Beach International Airport (PBI) Electric Vault Building and Apron Improvements

Type of Survey: Topographic

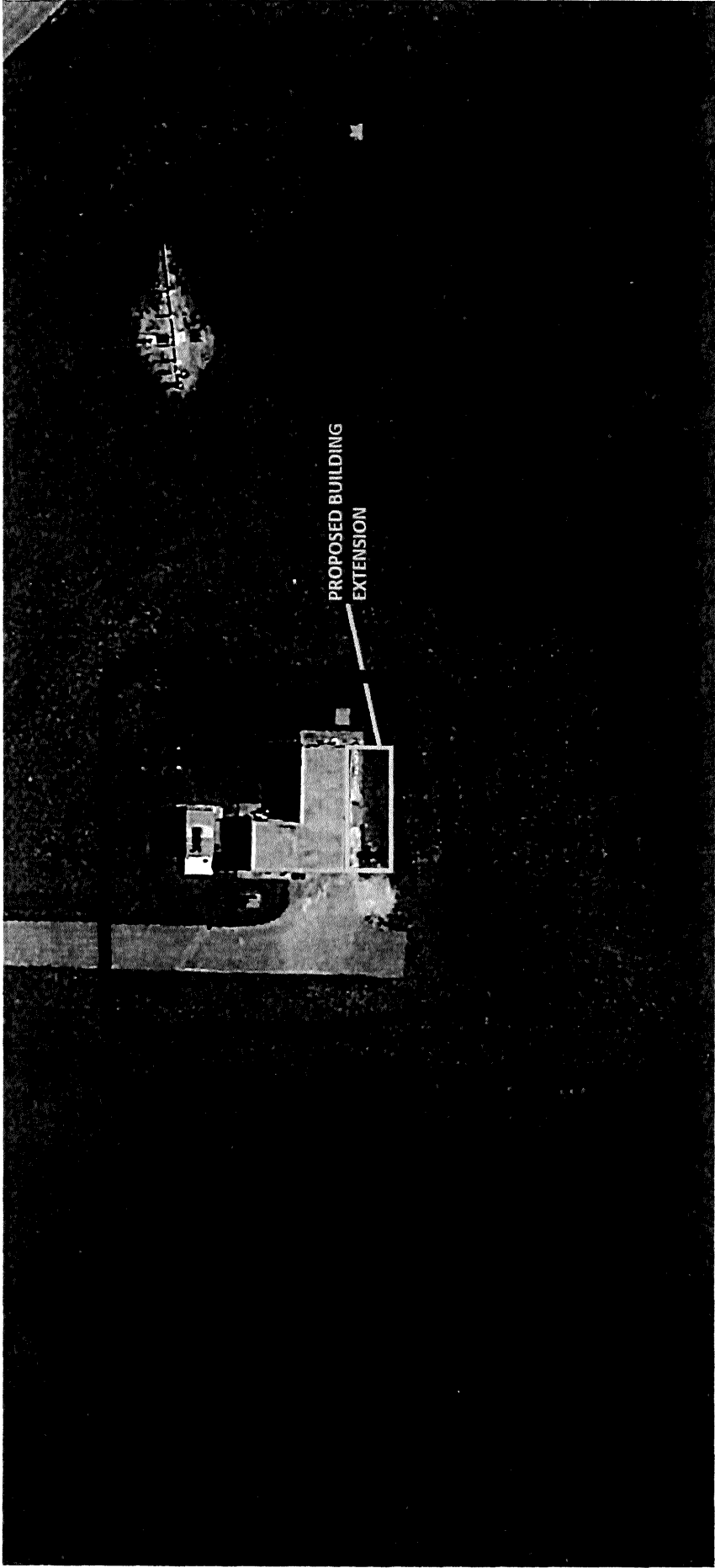
Size:

Date: February 14, 2020

TASK	SURVEY CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Meetings and Coordination					
Horizontal and Vertical Project Network Control	4		1		Establish control and coordination and set benchmarks
Tie In Improvements and Cross Sections	6		1	0.5	Locate above ground features, 25' cross sections and spot elevations
Asbuilts					Obtain asbuilt data
Topographic Survey		6	1.5	1	Prepare topographic survey
Total Hours:	10	6	3.5	1.5	
Rate/Hour	\$140.90	\$84.54	\$84.54	\$137.17	
Subtotal:	\$1,409.00	\$507.24	\$295.89	\$205.76	
Total Labor Cost:					\$2,417.89

<u>Other Direct Costs:</u>	<u>quantity</u>	<u>unit</u>	<u>cost/unit</u>	<u>total</u>
Prints		sheet	\$1.50	\$0.00
Shipping		cost x markup	1.20	\$0.00
Other				\$0.00
Total Other Direct Costs:				\$0.00

TOTAL PRICE **\$2,417.89**





**RELIABLE
IN-DEPTH
SOLUTIONS**

Geotechnical Engineering | Material Testing | Inspection Services

February 26, 2020

AECOM Technical Services, Inc.
7650 West Courtney Campbell Causeway
Tampa, Florida 33607

Attention: Mr. Christopher Rive, Engineer Aviation

Re: **Proposal for Geotechnical Services
Electric Vault Expansion
Palm Beach International Airport
West Palm Beach, Florida
TSF Proposal No.: 2002-124**

Dear Chris:

As requested, TSF is pleased to submit this proposal for the above-referenced project. The proposal is based on information provided by AECOM via e-mail on February 25, 2020.

We understand that the project will include expansion to the airfield electric vault and improvements to the existing building. The existing structure is supported on shallow foundations.

This proposal includes an outline of our proposed scope of work, an estimate of the total fees, and our anticipated schedule for completion of the work.

PROPOSED SCOPE OF WORK

Geotechnical Investigation Services will include the following:

- Attend One (1) DOA Design Kick-Off Meeting;
- Perform two (2) SPT borings to 25 feet to determine subsurface conditions;
- Work Plan and Utility Coordination;
- Laboratory tests including sieve analysis, organic, and moisture content;
- Soil Boring Location Plan;
- Soil Boring profile denoting boring number, Unified Soil Classification (USC), location of groundwater table depth, number of blows, standard penetration resistance in blows per foot, northing and easting, date performed, and depth in feet;
- Geotechnical recommendations for foundation support.

The Geotechnical Report will include a summary of findings, laboratory results including Moisture Content %, Organic Content %, and Percent Finer than No. 200 Sieve, and will be signed and sealed by a registered professional geotechnical engineer in the State of Florida. The report will include exhibits and figures to illustrate the geotechnical investigation and findings. Geotechnical related recommendations regarding foundation support and general site conditions will also be provided.

The geotechnical investigation will be performed in accordance with ASTM Standards (ASTM D 420, ASTM D 2487, ASTM D 2488, ASTM D 422, ASTM D 4318, ASTM D 1557, ASTM D 1883, ASTM D 3385, etc.), and AASHTO T-194.

The boring locations will be provided by AECOM. Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned utilities. **We understand that boring locations will be surveyed, and utilities cleared (by others) prior to our arrival.**

We believe that significant coordination will likely be required to perform the field operations and it is our understanding that the work will be conducted daytime. **We understand that the work will be on the air-side, and AECOM will escort TSF personnel and drill rig to and from the test location.** Our field work will be performed by TSF personnel with a security badge.

ESTIMATED FEES

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule and that the work be performed pursuant to TSF's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, it is estimated that the total fee will be approximately **\$4,335.00**.

Our estimate covers the work needed to present our findings in a formal report. Not included are recommendations, reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

Boring, sampling, and testing requirements are a function of the subsurface conditions encountered. Therefore, the estimated fee previously indicated is approximate, and compensation for the exploration will be based on the actual work and tests performed. We will endeavor to keep the exploration cost at a minimum consistent with good engineering practice.

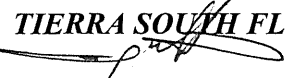
SCHEDULE AND AUTHORIZATION


TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take about 1 day to complete. The written report can be submitted within three weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary results can be provided to appropriate parties prior to submittal of the written report.

We at TSF appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

TIERRA SOUTH FLORIDA, INC.


Raj Krishnasamy, P.E.
President


Ramakumar Vedula, P.E.
Principal Engineer

Attachments: 1. Fee Estimate

AUTHORIZED BY:	INVOICE TO:
Firm:	Firm:
Name:	Name:
Title:	Address:
Date:	Phone #:
	Fax #:

Tierra South Florida
Unit Rate Fee Schedule
PBIA Electric Vault Expansion
Day Time Work

	Unit	# of Units		Unit Price		Total
I. FIELD INVESTIGATION						
Mobilization of Men and Equipment	LS	1	\$	350.00	\$	350.00
Truck-Mounted Equipment	DAY	1	\$	150.00	\$	150.00
Support Vehicle						
Standard Penetration Test Borings (By Truck-Mounted Equipment)						
Land: 0 - 50 ft depth	L.F.	50	\$	13.00	\$	650.00
50 - 100 ft depth	L.F.	0	\$	15.00	\$	0.00
Grout-Seal Boreholes (By Truck-Mounted Equipment)						
Land: 0 - 50 ft depth	L.F.	50	\$	6.00	\$	300.00
50 - 100 ft depth	L.F.	0	\$	7.00	\$	0.00
Casing (By Truck-Mounted Equipment)						
Land: 0 - 50 ft depth	L.F.	0	\$	7.00	\$	0.00
50 - 100 ft depth	L.F.	0	\$	9.00	\$	0.00
Double Ring Infiltration Test	Test	0	\$	500.00	\$	0.00
Pavement Cores, Asphalt	Each	0	\$	225.00	\$	0.00
Coring Machine + Generator Rental	Trip	0	\$	400.00	\$	0.00
MOT	Each	0	\$	1200.00	\$	0.00
II. LABORATORY TESTING						
Natural Moisture Content Tests	Test	2	\$	10.00	\$	20.00
Grain-Size Analysis - Full Gradation	Test	2	\$	65.00	\$	130.00
Grain-Size Analysis - Single Sieve	Test	0	\$	35.00	\$	0.00
Organic Content Tests	Test	2	\$	35.00	\$	70.00
Atterberg Limit Tests	Test	0	\$	75.00	\$	0.00
Liquid Limit Tests (Only)	Test	0	\$	52.00	\$	0.00
Plastic Limit Tests (Only)	Test	0	\$	33.50	\$	0.00
Laboratory CBR + Sampling	Test	0	\$	500.00	\$	0.00
Grain-Size with Hydrometer	Test	0	\$	115.00	\$	0.00
Proctor Test a) Modified	Test	0	\$	125.00	\$	0.00
b) Standard	Test	0	\$	105.00	\$	0.00
Bitumen Extraction	Test	0	\$	150.00	\$	0.00
Bitumen Gradation	Test	0	\$	150.00	\$	0.00
III. ENGINEERING/COORDINATION/MANAGEMENT						
Project Manager	Hour	0	\$	175.00	\$	0.00
Principal Engineer	Hour	1	\$	175.00	\$	175.00
Senior Engineer	Hour	2	\$	150.00	\$	300.00
Project Engineer	Hour	10	\$	125.00	\$	1,250.00
Senior Technician	Hour	8	\$	75.00	\$	600.00
CADD	Hour	4	\$	85.00	\$	340.00
					\$	4,335.00



 Raj Krishnasamy, P.E.
 Principal Geotechnical Engineer

EXHIBIT A-8

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-8

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)

Task I-22-PBI-A-061: PBI Chiller 4 and 5 Replacement (CA Services)

OVERVIEW

The Palm Beach County Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (CONSULTANT) provide Construction Administrative Services, under Task I-20-PBI-A-061: PBI Chiller 4 and 5 Replacement (CA Services), for the CMAR construction of the Task I-20-PBI-A-041: PBI Chiller 4 and 5 Replacement (Project) at Palm Beach International Airport (PBI).

SCOPE OF SERVICES

This task will be carefully coordinated by the Team provided below:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	Prime Consultant - CA Services
Johnson, Levinson, Ragan, Davila, Inc. (SUBCONTRACTOR)	Mechanical and Plumbing CA Services
Quantum Electrical Engineering, Inc. (SUBCONTRACTOR)	Electrical CA Services
Master Consulting Engineers, Inc. (SUBCONTRACTOR)	Structural CA Services

OVERVIEW

The Palm Beach County Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM) provide Construction Administration (CA) Services associated with the PBI Chiller 4 and 5 Replacement Project (Project) at Palm Beach International Airport (PBI).

Task I-22-PBI-A-061:

PBI Chiller 4 and 5 Replacement CA

A-8-1

January 2022

The Contractor's construction schedule shall consist of a six to eight month materials procurement and mobilization phase, a construction period that shall consist of 13 months, and a closeout period that shall consist of 90 days.

PROJECT TEAM

The Project Team for this task includes:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	Project Management / Periodic Inspections
Johnson, Levinson, Ragan, Davila, Inc. (JLRD)	Mechanical CA Services
Quantum Electrical Engineering, Inc. (Quantum)	Electrical CA Services and Arc Flash Studies

Task I – CA Services

AECOM will provide the following CA Services:

- A. Conformed Documents: Prepare (6) sets of Conformed Contract Plans and Specifications for Contract Execution. Prepare (6) sets of Executed Contract Documents for Construction, (4) for DOA and (2) for the Contractor. Prepare a CD with Deliverables;
- B. Conferences and Meetings: Attend and support/facilitate meetings between the DOA, CMAR, and Stakeholders, such as progress meetings (a maximum of 16 bi-weekly meetings during procurement, 26 bi-weekly construction progress meetings, and 6 miscellaneous meetings so 48 total meetings);
- C. Shop Drawings: Review and approve shop drawings prior to the beginning of construction activities. Develop and maintain a log that summarizes status of all shop drawings;
- D. Interpretation and clarification of Contract Documents: Respond to various Requests for Information, Job memoranda, and other field prepared inquiries;
- E. Records: Maintain electronic files of correspondence, meeting minutes, shop drawings and Contract Documents including all work directive changes, addenda, change orders, field orders, additional drawings issued subsequent to the execution of the contract, clarifications and interpretations of the Contract Documents, progress reports and other project related documents. Record names, addresses and telephone numbers of all Contractors, subcontractors and major suppliers of material and equipment;
- F. Payment Requests: Review applications for payment with information provided by the CMAR;
- G. Periodic site visits to monitor construction activity;
- H. AECOM will be responsible for preparation, processing, review and document control of Change Orders, Field Instructions, Field Bulletins, Construction Change Proposals and Directives.

Task I-22-PBI-A-061:

PBI Chiller 4 and 5 Replacement CA

A-8-2

January 2022

- I. AECOM will review Contractor as-builts for completeness and obvious errors based on readily available information to AECOM. AECOM will provide comments prior to acceptance of the Contractor's As-builts.
- J. Substantial and Final Completion: Conduct substantial and final completion inspection in the company of the owner, and Contractor and prepare a substantial completion, and if necessary a final punch list of items in conjunction with Owner to be completed or corrected;
- K. AECOM will use all readily available information including the Contractor's As-builts to prepare Record Drawings for the completed work.
- L. Task Management and Coordination: Coordinate as needed with DOA, CMAR, and other Project stakeholders.
- M. Project Close-out Activities: AECOM will prepare Certificate of Substantial Completion and other Project related Close-out activities.

PROJECT SCHEDULE

AECOM is scheduled to complete this project within 2 years following receipt of the Notice to Proceed.

PROJECT DELIVERABLES

Project Deliverables are as described in the above-mentioned Task I.

PROJECT ASSUMPTIONS

1. AECOM shall not be responsible for the means, methods, techniques, sequences, procedures of construction or selection of materials selected by the CMAR or the safety precautions and programs incident to the work of the CMAR. AECOM shall not guarantee the performance of the Contractor nor be responsible for the acts, errors, omissions, or the failure of the CMAR to perform the construction work in accordance with the Contract Documents.
2. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform all other construction related services that are not listed.
3. AECOM understands and agrees that the DOA shall have the responsibility for the general administration of the construction contract. AECOM shall not have the authority or responsibility to accept or reject work done by the Contractor, and is only responsible for providing recommendations to the DOA based on the available information.

Exhibit B-1

Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - PBI Chiller 4 and 5 Replacement (CA Services)

Billing Rate: \$ 340 \$ 181 \$ 247 \$ 182 \$ 120 \$ 97 \$ 89 \$ 90

		Labor Estimate (Hours)									Fee Estimate (\$)			
Task Description		Principal	QC Reviewer	Senior Project Manager	Construction Manager	Project Engineer	Resident Project Representative	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total	
PBI Chiller 4 and 5 Replacement (CA Services)														
	CONSTRUCTION ADMINISTRATION SERVICES (LUMP SUM + REIM.)	Total	4	6	92	230	304	0	68	40	732	\$ 112,094	\$ 1,500	\$ 113,594
A	Prepare Conformed Documents			2	2	8		16			28	\$ 3,110		\$ 3,110
B	Meetings (48 Const. Meetings)			24	48	24					96	\$ 17,544		\$ 17,544
C	Process Review and Approve Shop Drawings and Submittals	4		4	12	24					44	\$ 7,412		\$ 7,412
D	Interpretation and Clarification of Contract Documents/RFI's			8	48	48					104	\$ 16,472		\$ 16,472
E	Establish and Maintain Project Records				4	4					8	\$ 1,208		\$ 1,208
F	Review Applications for Payment				8	8					16	\$ 2,416		\$ 2,416
G	Periodic Site Visits			16	24	60					100	\$ 15,520	\$ 1,000	\$ 16,520
H	Review/Processing of Change Orders, Field Instructions, Field Bulletins, Construction Change Proposals and Directives.			12	48	60					120	\$ 18,900		\$ 18,900
I	As Built Review				8	8					16	\$ 2,416		\$ 2,416
J	Substantial w/ Punch List and Final Completion Inspector				4	4					8	\$ 1,208	\$ 500	\$ 1,708
K	Prepare Record Drawings		4	4	8	32		40			88	\$ 10,568		\$ 10,568
L	Task management and Coordination				16	16			40		72	\$ 9,472		\$ 9,472
M	Project Closeout			8	16	8					32	\$ 5,848		\$ 5,848
		4	6	92	230	304	0	68	40				1,500	\$ 113,594
Total Fee - AECOM Technical Services, Inc.		\$ 1,360	\$ 1,080	\$ 22,724	\$ 41,860	\$ 36,480	\$ 0	\$ 4,984	\$ 3,600	732	\$ 112,094	\$ 1,500	\$ 113,594	
Subconsultant Fees Task 1.0														
	Quantum Electrical Engineering, Inc. (LS)	\$ 48,697.45												
	Quantum Electrical Engineering, Inc. (Exp.)	\$ 34,850												
	JLRD (LS)	\$ 1,400												
	JLRD (Exp.)													
	Masters Consulting Engineers, Inc. (LS)													
	Masters Consulting Engineers, Inc. (Exp)													
Total Fee - Subconsultants		\$ 84,947												
GRAND TOTAL FEE - BASIC ENGINEERING SERVICES		\$ 198,541												
Prepared by: AECOM Technical Services, Inc.														

Task 1.0 (Lump Sum) \$197,041
 Task 2.0 (Time & Material) \$0
 Expenses \$1,500
 Total \$198,541

November 3, 2021

AECOM Technical Services, Inc.
Mr. Andy Kacer P.E.
Southeast Aviation Manager
7650 West Courtney Campbell Causeway
Tampa, FL 33607

Subject: Electrical Construction Administration Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – PBI Chiller 4 and 5 Replacement Construction Services

Dear Andy:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide AECOM an electrical Construction Administration services fee proposal for the PBI Chiller 4 and 5 Replacement Project. The following items are included in our scope:

TASK 1 – Construction Administration Services:

- Based on six to eight months procurement (16 bi-weekly meetings), a construction period of 13 months (26 bi-weekly meetings plus 6 misc. meetings), and a closeout period of 3 months.
- Includes attendance at preconstruction meeting with DOA, AECOM and Contractor.
- Includes preparation of Conformed Documents for Construction.
- Includes electrical shop drawings submittals reviews & approvals.
- Includes weekly site observation visits.
- Includes attendance at bi-weekly progress meetings during construction with DOA, AECOM and Contractor. Assumption of (48) construction meetings.
- Includes requests for information reviews & approvals.
- Includes change order reviews and comments.
- Includes pay application reviews and comments.
- Includes substantial and final completion inspections.
- Includes record drawings based on Contractor “Red Line Plan Mark-ups.”

Our TASK 1 proposed lump-sum fee is: \$ 42,928.29

TASK 2 - Arc Flash Analysis Update for Terminal:

- Up-dating the existing power system model in SKM Power Tools for Windows for the electrical modifications to the electrical distribution systems serving the Chiller Plant. The following electrical distribution equipment will require updating: “Substation D”, “Switchboard CNDP”, “CP-MV MCC” and “MCC CP”.
- Re-run the Short Circuit, Coordination and Arc Flash Studies.
- Update one-lines and written report and Arc Flash /Breaker(s) tables.
- Develop and Replace Arc Flash labels on new/modified equipment.

Our TASK 2 proposed lump-sum fee is: \$ 5,769.16

Palm Beach County
2755 Vista Parkway, Suite I-9
West Palm Beach, FL 33411
561.210.9224

www.QuantumElectricalEngineering.com

Broward County
5571 N. University Drive, Suite 101
Coral Springs, FL 33067
954.369.5810

Our proposed Lump-Sum fee for TASK 1 is:	\$ 42,928.29
Our proposed Lump-Sum fee for TASK 2 is:	\$ 5,769.16
Our proposed total Lump-Sum fee is:	\$ 48,697.45

(See attachment breakdown)

Sincerely,



Amy L. Champagne-Baker, PE
President

Palm Beach County
2755 Vista Parkway, Suite I-9
West Palm Beach, FL 33411
561.210.9224

www.QuantumElectricalEngineering.com

Broward County
5571 N. University Drive, Suite 101
Coral Springs, FL 33067
954.369.5810



JOHNSON, LEVINSON,
RAGAN, DAVILA, INC.
CONSULTING ENGINEERS

1450 Centrepark Boulevard, Suite 350
West Palm Beach, FL 33401
(561) 689-2303 • (561) 689-2302 Fax
www.jlrdinc.com

AUTHORIZATION FOR ENGINEERING SERVICES

CLIENT: Mr. Andrew Kacer, P. E., Vice President – Airports
AECOM Technical Services, Inc.

PROJECT: PBI Chiller Plant Improvements - Task III-21-PBI-A-061
RE: Construction Administration and Commissioning Services

DATE: October 12, 2021

JLRD PROJECT NO.: 120109

In accordance with the contract for the above referenced project, JLRD, Inc. is hereby authorized to perform the Engineering Services requested by AECOM, Inc. (the Client) as outlined below:

SCOPE:

1. Provide additional engineering services for Task III-21-PBI-A-061 to include construction administration and commissioning services, as follows:
 - Provide Shop Drawing review, Field Observations (monthly), Bi-Weekly and Miscellaneous OAC meetings (48 meetings total), respond to construction RFI's, ASI's and produce AS-BUILT drawings from contractors redlines at the end of the project.
 - Provide code required commissioning efforts, for installed equipment such as the new chillers and pumps, which shall include:
 - developing a commissioning plan
 - creating pre-functional testing reports for contractor use
 - creating functional testing forms for engineer use
 - conducting commission tests and re-testing
 - validating test-and-balance reports
 - review equipment submittals and controls sequences of operation

PROJECT SCHEDULE

- The estimated CA duration for the project is a six to eight months procurement, a construction period of 13 months, and a closeout period of 3 months.
- The Construction Administration scope will last for the duration of the project.

EXCLUSIONS

- Retro-commissioning of the entire central energy plant operation is not included.

FEES:

1. The above-mentioned scope shall be provided based upon a lump-sum fee amount as follows:
 - *Thirty-Four Thousand Eight Hundred Fifty Dollars (\$34,850.00)*

TIME OF PERFORMANCE:

1. Design services will be completed with due and reasonable diligence after receipt of this executed authorization.

Accepted By:

Date:

DESIGN LABOR BREAKDOWN																	
TASK	HOURS													Tot	Cost		
	Principal		PE		Eng		Sr. Dsgn		Dsgn		Off Hours		CAD			SEC	
	200	200	130	130	85	85	120	120	75	75	128	128	55			65	
	M	E	M	E	M	E	M	E	M	E	M	E	-	-			
BASE DESIGN SCOPE																	
<i>General</i>																	
General Project Management (24 months)	6		24													30	\$ 4,320.00
Construction Meetings - Bi-weekly (24 months)							48									48	\$ 5,760.00
																-	-
																-	-
																-	-
																-	-
<i>Commissioning</i>																	
Cx Plan Writing					4										2	6	\$ 470.00
Cx Pre-Func Test Forms					4										4	8	\$ 600.00
Cx Func Test Forms					4		6								4	14	\$ 1,320.00
Cx Kick-Off Meeting with PBI and CMAR							6									6	\$ 720.00
Cx Equipment Testing (chillers and pumps)			2				20								12	34	\$ 3,440.00
Cx ReTesting							8								4	12	\$ 1,220.00
Cx Test and Balance Review			2				4								2	8	\$ 870.00
Cx Coordination / Issues Logging							16								2	18	\$ 2,050.00
																-	-
																-	-
																-	-
																-	-
BASE DESIGN SUBTOTAL	6	0	28	0	12	0	108	0	0	0	0	0	0	0	30	184	\$ 20,770.00
CONSTRUCTION ADMINISTRATION																	
Shop Drawings			4				32								12	48	\$ 5,140.00
Field Observations (24 months)							24									24	\$ 2,880.00
RFIs and ASIs			8				24								12	44	\$ 4,700.00
As-Builts							4								16	20	\$ 1,360.00
CONSTRUCTION ADMIN SUBTOTAL	0	0	12	0	0	0	84	0	0	0	0	0	0	16	24	136	\$ 14,080.00
JLRD DIRECT LABOR	6	0	40	0	12	0	192	0	0	0	0	0	0	16	54	320	\$ 34,850.00
SUBCONTRACTORS																	
NONE																	
OH&P @ 10%																	\$ -
SUBCONTRACTOR SUBTOTAL																	-
EXPENSES																	
<i>Travel</i>																	
Parking																	\$ -
Overnights																	\$ -
Hotel & Meals																	\$ -
<i>Reproduction</i>																	
Large Format Docs				3			4										\$ -
8.5" x 11": Report, Systems Manuals				3			4										\$ -
EXPENSES SUBTOTAL																	\$ -
SUMMARY																	
JLRD DIRECT LABOR																	\$ 34,850.00
SUBCONTRACT																	-
EXPENSES																	\$ -
PROJECT TOTAL																	\$ 34,850.00

October 11, 2021

MR. Dennis G. Combs, PE
Associate Vice President, Aviation Project Manager
AECOM

RE: Palm Beach International Airport.
Chiller Plant Improvements
CA Services

Dear Mr. Combs:

Master Consulting Engineers, Inc. (MCE) is pleased to present this proposal for structural engineering construction administration services for the Chiller Plant improvements at the Palm Beach International Airport.

Project Description / Basic Scope of Work:

- a) Review shop drawings of the structural elements of the project.
- b) General CA
- c) Responding to Contractor RFI
- d) Provide Sketches as needed due to construction conditions.
- e) 2 site visits.

MCE proposes to provide the Basic Scope of Services indicated above for a lump sum fee of **\$1,400.00**. MCE will cover the expense of sending drawings, reports, shop drawings using regular mail. If special delivery, overnight delivery, or any other service is requested, those charges will be billed at our cost.

Very truly yours,
Master Consulting Engineers, Inc.

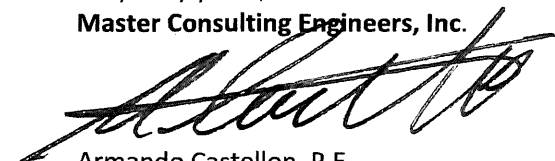

Armando Castellon, P.E.
Sr. Principal

EXHIBIT A-9

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-9

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach International Airport (PBI)
North Palm Beach County General Aviation Airport (F45)
Palm Beach County Park Airport (LNA)
Palm Beach County Glades Airport (PHK)
Task I-22-DOA-A-062: Miscellaneous Planning & Engineering Services 2022

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested that AECOM Technical Services, Inc. (AECOM or CONSULTANT) provide professional services for the Task I-22-DOA-A-062: Miscellaneous Planning & Engineering Services 2022 Project (Project).

AECOM will assist the DOA with general aviation planning support tasks, for the four (4) DOA airports, that are frequently requested and typically require only a few hours/days of effort and are required in a short timeframe. The specific tasks to be developed are described below:

PROPOSED SCOPE OF WORK

- 01: The DOA periodically requests the CONSULTANT to conduct Independent Fee Estimates (IFE) on various projects varying in size and scope of work. AECOM will submit an initial Independent Fee Estimate (Cover Letter plus Spreadsheet) for each of these tasks, followed up by clarifications of our reasoning for developing our associated fees.
- 02: AECOM will assist the PBCDOA with miscellaneous planning, programming, engineering, and architectural support services for various tasks at the DOA airports and associated properties. These tasks typically include updating planning maps and sketches, evaluating and providing recommendations for miscellaneous small assignments, preparing preliminary cost estimates, and other miscellaneous tasks. This task also includes developing general project scopes of work and rough order of magnitude budget estimates for DOA use in the planning, engineering, and programming of upcoming design and construction projects.

PROJECT SCHEDULE

The schedule for each of these tasks will vary.

Exhibit B-1

Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-22-DOA-A-062: Miscellaneous Planning & Engineering Services 2021

Billing Rate: \$ 340 \$ 161 \$ 247 \$ 219 \$ 120 \$ 107 \$ 69 \$ 90

Task Description	Labor Estimate (Hours)									Fee Estimate (\$)		
	Principal	QC Reviewer	Senior Project Manager	Senior Planner	Project Engineer	Planner	Senior CADD Designer	Clerical	Total	Labor	Expenses	Total
Task I-22-DOA-A-062: Miscellaneous Planning & Engineering Services 2021												
Total	0	0	80	35	120	90	0	0	325	\$51,455	\$1,200	\$52,655
01 Independent Fee Estimates (FE)			20		40	40			100	\$14,020	\$400	\$14,420
02 Miscellaneous Programming, Engineering and Architectural			30	20	40	30			120	\$19,800	\$400	\$20,200
03 Programming for Upcoming Tasks			30	15	40	20			105	\$17,635	\$400	\$18,035
Total Fee - AECOM Technical Services, Inc.	0	0	80	35	120	90	0	0	325	\$51,455	1,200	\$52,655

Subconsultant Fees Task 1.0

Task 1.0 (Lump Sum)	\$51,455
Task 2.0 (Time & Material)	\$0
Expenses	\$1,200
Total	\$52,655

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES

EXHIBIT A-10

PALM BEACH DOA GENERAL CONSULTING SERVICES

EXHIBIT A-10

Miscellaneous Architectural, Planning, Engineering and Construction Services

Palm Beach International Airport (PBI) Task I-22-PBI-A-63 PBI Cargo Expansion

OVERVIEW

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-22-PBI-A-63 Cargo Expansion Project (Project) at Palm Beach International Airport (PBI). The scope of work for this Project includes developing the ultimate geometry configuration for the PBI Cargo Expansion and the accompanying Estimated Program Costs.

PROJECT TEAM

The Project Team consists of:

Firm Name (CONSULTANT / SUBCONTRACTOR)	Type of Services
AECOM Technical Services, Inc. (CONSULTANT)	Planning and Program Cost Estimating

PROJECT OBJECTIVE AND APPROACH

AECOM will provide cargo planning support to develop scenarios for expanding the air cargo apron at PBI. We will prepare rough sketch plans for test fit-analysis that assume implementation of taxiway connector alternatives 3B and 5; assess the required technical and operational effectiveness and/or suitability characteristics of potential layouts. We'll review these with the airport to identify the concept that appears to be the most efficient/effective use of the space available; incorporate project-related features as needed to complete the cargo area layout plan assuming full build-out of the site. AECOM will develop Program Costs that accompany the selected configuration. AECOM will develop construction documents for the construction of the selected configuration upon completion this Project under a separate Task.

PROJECT SCHEDULE

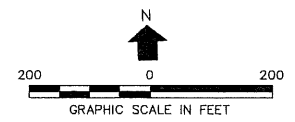
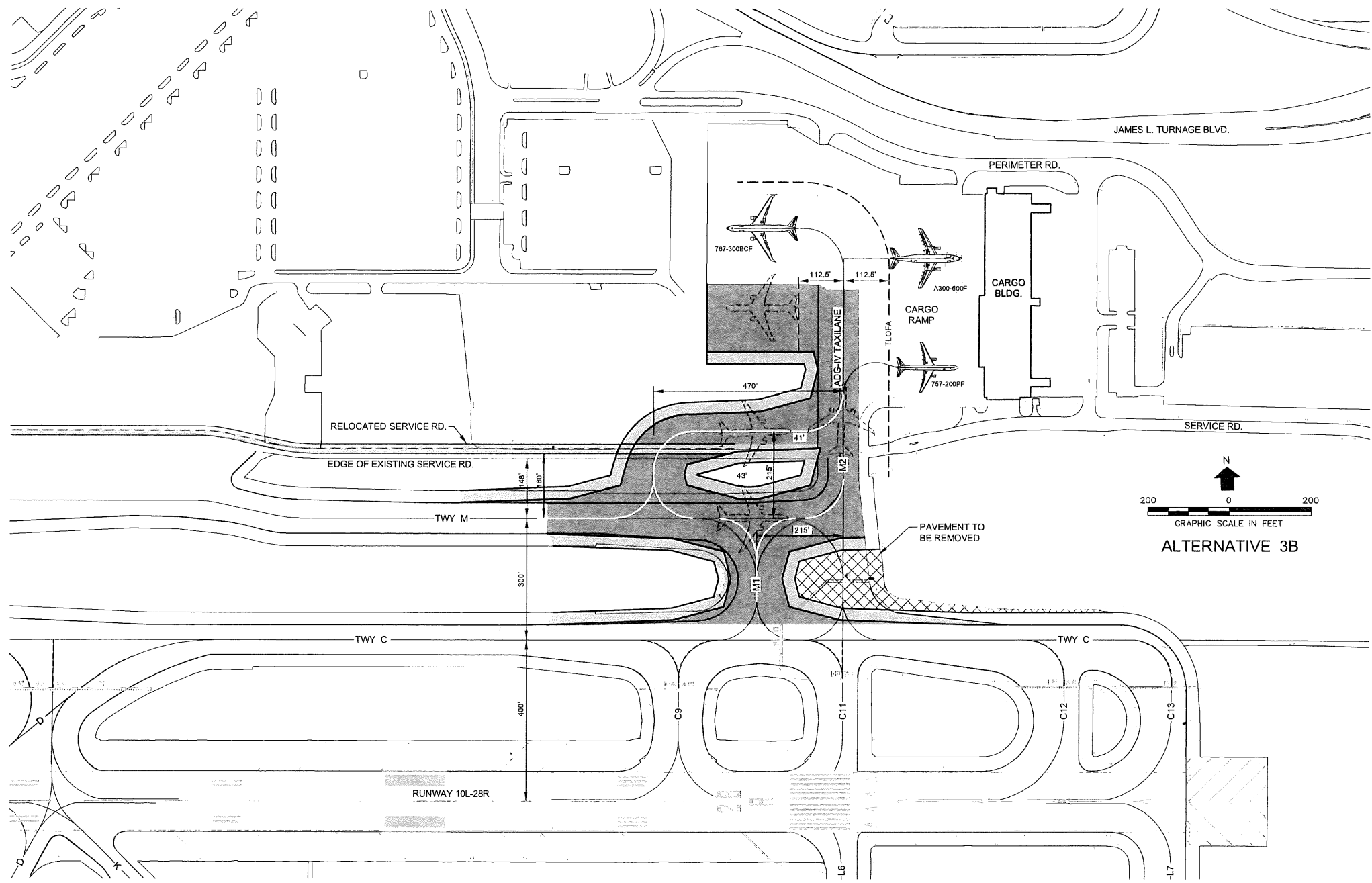
AECOM is scheduled to complete this project within 60 Calendar Days following receipt of the Notice to Proceed.

PROJECT DELIVERABLES

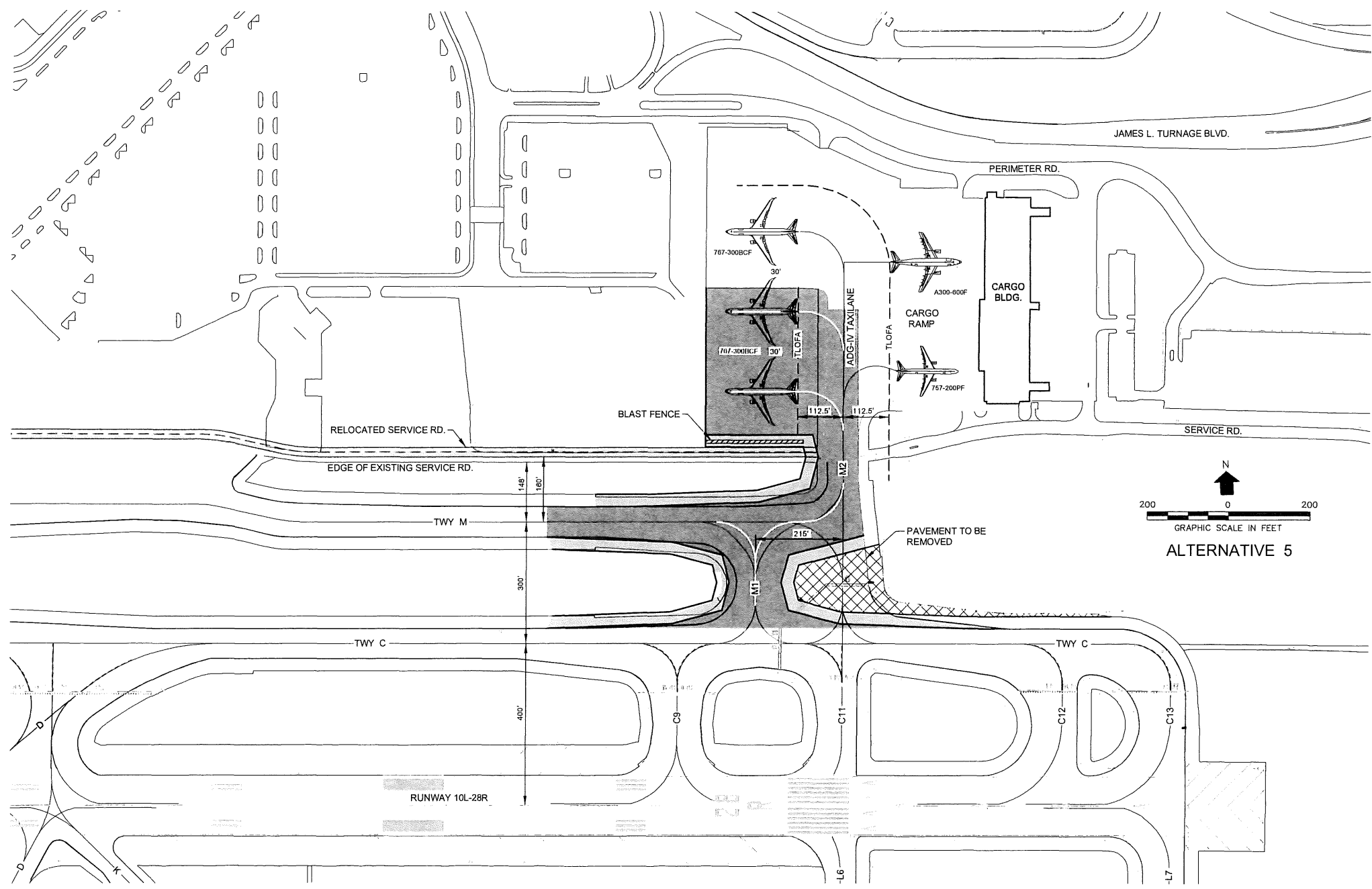
Project Deliverables are as described in the above-mentioned Task.

PROJECT ASSUMPTIONS

1. AECOM will perform all services listed in this scope of services and it is expected that the DOA will perform services that are not listed.
2. In the event that the DOA and AECOM believe it to be in the best interests of the Project that additional construction engineering inspection services, or additional services beyond what is provided in this scope of work be provided by the AECOM, a separate Task Authorization, which specifies the proposed scope of services to be performed, will be prepared.



ALTERNATIVE 3B



ALTERNATIVE 5

Exhibit B-4

Labor/Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-22-PBI-A-63 PBI Cargo Expansion

Billing Rate: \$ 219 \$ 181 \$ 247 \$ 107 \$ 120 \$ 185

Task Description	Labor Estimate (Hours)							Fee Estimate (\$)		
	Senior Planner	QC Reviewer	Senior Project Manager	Planner	Project Engineer	Senior Engineer	Total	Labor	Expenses	Total
Task I-22-PBI-A-63 PBI Cargo Expansion										
1.0 Project Services	39	8	9	84	22	10	172	\$25,690	\$0	\$25,690
A Kick Off Meeting	2		1				3	\$ 685	\$ -	\$ 685
A Develop Configurations	18	2	1	50	8		79	\$ 10,861		\$ 10,861
A Submit Draft Configuration	1		1				2	\$ 466		\$ 466
A Develop Draft Program Costs		2	2	4	5	5	18	\$ 2,809		\$ 2,809
B Meeting w DCA to Review Draft	2		2				4	\$ 932		\$ 932
C Develop Final Configuration	16	2	1	30	4		53	\$ 7,803		\$ 7,803
D Develop Final Program Costs		2	1		5	5	13	\$ 2,134		\$ 2,134
	\$ 6,541.00	\$ 1,448.00	\$ 2,223.00	\$ 8,988.00	\$ 2,640.00	\$ 1,850.00		\$ 25,690.00		\$ 25,690.00

Total Fee - AECOM Technical Services, Inc.

Subconsultant Fees Task 1.0

LS	\$25,690
TM	\$0
EXP	\$0
Total	\$25,690

Total Fee - Subconsultants

\$ -

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES

\$ 25,690

Prepared by: AECOM Technical Services, Inc.

EXHIBIT B:

DETAILED FEES, EXPENSES AND PAYMENTS

EXHIBIT B-I Summary of Fees

EXHIBIT B-II Schedule of Payments

EXHIBIT B-I
SUMMARY OF FEES



Project	Lump Sum	T&M	Reimbursable Expenses	Total
TASK I SERVICES				
Task I-22-LNA-A-054: LNA Fence and Security Improvements (CM/CA)	\$51,471	\$70,416	\$1,500	\$123,387
Task I-22-PBI-A-055: PBI Vehicle Service Road Relocation CM/CA/RPR	\$39,898	\$3,355	\$2,200	\$45,453
Task I-22-PBI-A-056: Hold Position and RGLs at RW 10R-28L and TW R1 (CM/CA/RPR)	\$54,933	\$6,401	\$2,000	\$63,334
Task I-22-PHK-A-057: PHK Runway 18-36 and Taxiway Rehabilitation (CM/RPR/CA)	\$266,291	\$240,952	\$10,640	\$517,883
Task I-22-DOA-A-058: PBCDOA Minimum Standards and Rules	\$100,787		\$9,000	\$109,787
Task I-22-DOA-A-059: LNA and F45 PAPIs Replacement	\$136,621.69		\$16,857	\$153,478.69
Task I-22-PBI-A-060: PBI Airfield Electric Vault Building Expansion	\$214,269	\$6,753	\$1,882	\$222,904
Task I-22-PBI-A-061: PBI Chiller 4 and 5 Replacement (CA Services)	\$197,041		\$1,500	\$198,541
Task I-22-PBI-A-062: Miscellaneous Planning & Engineering Services 2022	\$51,455		\$1,200	\$52,655
Task I-22-PBI-A-063: PBI Cargo Expansion	\$25,690			\$25,690
TASK III SERVICES				
Task III: Deliverable(s) As required in accordance with specific Task Authorizations				\$250,000
TOTAL				\$1,763,111.51

EXHIBIT B-II SCHEDULE OF PAYMENTS

The Scope of Work to be completed by CONSULTANT as defined in Exhibit "A" consists of specific completion phases which shall be clearly identified upon submission to the COUNTY of certain "deliverables" as expressly indicated below. Compensation for the work tasks stated herein shall be in accordance with the following Schedule of Payments:

Tasks to Be Completed:

Project	Duration	Total
TASK I SERVICES		
Task I-22-LNA-A-054: LNA Fence and Security Improvements (CM/CA)	180 Calendar Days	\$123,387.00
Task I-22-PBI-A-055: PBI Vehicle Service Road Relocation CM/CA/RPR	150 Calendar Days	\$45,453.00
Task I-22-PBI-A-056: Hold Position and RGLs at RW 10R-28L and TW R1 (CM/CA/RPR)	120 Calendar Days	\$63,334.00
Task I-22-PHK-A-057: PHK Runway 18-36 and Taxiway Rehabilitation (CM/RPR/CA)	190 Calendar Days	\$517,883.00
Task I-22-DOA-A-058: PBCDOA Minimum Standards and Rules	9 Months	\$109,787.00
Task I-22-DOA-A-059: LNA and F45 PAPIs Replacement	165 Calendar Days	\$153,478.69
Task I-22-PBI-A-060: PBI Airfield Electric Vault Building Expansion	150 Calendar Days	\$222,904.00
Task I-22-PBI-A-061: PBI Chiller 4 and 5 Replacement (CA Services)	24 Months	\$198,541.00
Task I-22-PBI-A-062: Miscellaneous Planning & Engineering Services 2022	TBD	\$52,655.00
Task I-22-PBI-A-063: PBI Cargo Expansion	60 Calendar Days	\$25,690
TASK III SERVICES		
Task III: Deliverable(s) As required in accordance with specific Task Authorizations	TBD	\$ 250,000.00
TOTAL		\$1,763,111.51

EXHIBIT C

PROPOSED SCHEDULES

Project	Duration
TASK I SERVICES	
Task I-22-LNA-A-054: LNA Fence and Security Improvements (CM/CA)	180 Calendar Days
Task I-22-PBI-A-055: PBI Vehicle Service Road Relocation CM/CA/RPR	150 Calendar Days
Task I-22-PBI-A-056: Hold Position and RGLs at RW 10R-28L and TW R1 (CM/CA/RPR)	120 Calendar Days
Task I-22-PHK-A-057: PHK Runway 18-36 and Taxiway Rehabilitation (CM/RPR/CA)	190 Calendar Days
Task I-22-DOA-A-058: PBCDOA Minimum Standards and Rules	9 months
Task I-22-DOA-A-059: LNA and F45 PAPIs Replacement	165 Calendar Days
Task I-22-PBI-A-060: PBI Airfield Electric Vault Building Expansion	150 Calendar Days
Task I-22-PBI-A-061: PBI Chiller 4 and 5 Replacement (CA Services)	24 months
Task I-22-PBI-A-062: Miscellaneous Planning & Engineering Services 2021	TBD
Task I-22-PBI-A-063: PBI Cargo Expansion	60 Calendar Days
TASK III SERVICES	
Task III: Deliverable(s) As required in accordance with specific Task Authorizations	TBD

EXHIBIT D

DBE

**SCHEDULE 1(A)
LIST OF PROPOSED DBE FIRMS
(Professional Services)**

LOI/SOQ Project Description: Airport General Consulting
 Name of Respondent: AECOM Technical Services, Inc. Change Order/Task/Amendment No. (if applicable): Amendment 7
 Contact Person: Andrew Kacer E-mail Address: Andy.Kacer@aecom.com
 Address: 7650 West Courtney Campbell Causeway, Tampa, FL 33607
 Phone No: (O) 813.636.2425 (C) 352.634.4363 Fax No: 813.287.8591

Name, Address & Phone No. of DBE Firm	Description of Type of Work	Classification (Check applicable box)	Dollar Amount			
			Black	Hispanic	Women	Other (Please Specify)
Quantum Electrical Engineering, Inc. 2755 Vista Parkway, Suite I-9 West Palm Beach, FL 33411 (561) 210-9224	Electrical Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	<u>9.93</u> %	_____ %
Tierra South Florida 2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411 (561) 687-8536	Geotechnical Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	Asian Pacific <u>4.15</u> %
Brown & Phillips. 1800 Old Okeechobee Road Suite 509, West Palm Beach, FL (561) 615-3988	Surveying Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	<u>0.59</u> %	_____ %	_____ %	_____ %
Masters Consulting Engineers 4101 Ravenswood Road, Suite 307 Ft. Lauderdale, FL 33312 (954) 210-7671	Structural Engineering Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	<u>0.65</u> %	_____ %	_____ %
Colome & Associates, Inc. 5320 24 th St. West Palm Beach, FL 33407 (561) 833-9147	Architectural	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	<u>4.01</u> %	_____ %
ADA 1800 Old Okeechobee Rd. STE 202 West Palm Beach, FL 33409 (561) 615-8880	Construction Administration (Drainage/Permitting)	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	<u>1.66</u> %	_____ %	_____ %

Total Percentage of DBE Participation: 20.99 %

Notes:

- The percentages listed on this form for each DBE Firm must be supported by the percentages included on Schedule 2(A), "Letter of Intent to Perform as a Disadvantaged Business Enterprise", in order to be counted toward attainment of the DBE goal.
- Firms identified on this form must be certified as a DBE by the State of Florida's Unified Certification Program. Certification status can be verified on the Florida Department of Transportation's Biznet website at <https://www3.dot.state.fl.us/EqualOpportunityOffice/biznet/mainmenu.asp>.
- If materials or supplies are proposed to be purchased from a DBE regular dealer, the undersigned acknowledges that only sixty percent (60%) of the proposed expenditure will be counted toward attainment of the DBE goal.

By signing this form the undersigned Respondent is committing to utilize the above referenced DBE Firms on the Project and that the Respondent will monitor the DBE Firms to ensure that the work is actually performed by the by the DBE Firms.

By: *Andrew Kacer*

Date: 01/07/2022

Signature

Andrew Kacer - Vice President

Print Name/Title of Person Executing on Behalf of the Respondent

SCHEDULE 2(A)
LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE
(Professional Services)

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment 7

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: Quantum Electrical Engineering, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black Hispanic Women Other (Please Specify)
 Prime Consultant Subcontractor Manufacturer Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Electrical Services

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 9.93 %

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:

_____ % DBE Certified
(Name of Subcontractor) (Percentage of work to be subcontracted) Non-DBE

The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.

Quantum Electrical Engineering, Inc.
Printed Name of DBE/Subcontractor

By: 
Signature

Date: 1-7-2022

**SCHEDULE 2(A)
LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE
(Professional Services)**

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment 7

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: Tierra South Florida, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black Hispanic Women Other (Please Specify) Asian
 Prime Consultant Subcontractor Manufacturer Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Geotechnical Services

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 4.15 %

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:

Tierra South Florida, Inc. _____ % DBE Certified
(Name of Subcontractor) (Percentage of work to be subcontracted) Non-DBE

The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.

Tierra South Florida
Printed Name of DBE Subcontractor

By: 
Signature

Date: 1-7-2022

SCHEDULE 2(A)
LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE
(Professional Services)

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment 7

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: Brown & Phillips

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black Hispanic Women Other (Please Specify)
 Prime Consultant Subcontractor Manufacturer Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Surveying Services

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 0.59 %

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:

_____ % DBE Certified
(Name of Subcontractor) (Percentage of work to be subcontracted) Non-DBE

The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.

Brown & Phillips
Printed Name of DBE Subcontractor

By: _____
Signature

Date: 1-7-2022

**SCHEDULE 2(A)
LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE
(Professional Services)**

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment 7

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: Masters Consulting Engineers

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black Hispanic Women Other (Please Specify)
 Prime Consultant Subcontractor Manufacturer Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Structural Engineering Services

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 0.65 %

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:

_____ % DBE Certified
(Name of Subcontractor) (Percentage of work to be subcontracted) Non-DBE

The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.

Masters Consulting Engineers
Printed Name of DBE Subcontractor

By: 
Signature

Date: 11-5-2021

SCHEDULE 2(A)
LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE
(Professional Services)

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment 7

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: Colome and Associates, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black Hispanic Women Other (Please Specify)
 Prime Consultant Subcontractor Manufacturer Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Architectural Services

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 4.01 %

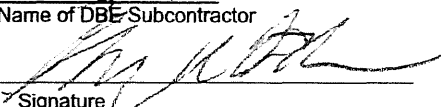
and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:

_____ % DBE Certified
(Name of Subcontractor) (Percentage of work to be subcontracted) Non-DBE

The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.

Colome and Associates, Inc.
Printed Name of DBE Subcontractor

By: 
Signature

Date: 1-7-2022

SCHEDULE 2(A)
LETTER OF INTENT TO PERFORM AS A DISADVANTAGED BUSINESS ENTERPRISE
(Professional Services)

LOI/SOQ Project Description: Airport General Consulting

Change Order/Task /Amendment No. (if applicable): Amendment 7

Name of Prime Respondent: AECOM Technical Services, Inc

Name of DBE Firm: A.D.A. Engineering, Inc.

The undersigned is certified as a Disadvantaged Business Enterprise by the State of Florida's Unified Certification Program. Check one or more classifications as applicable:

- Black Hispanic Women Other (Please Specify)
 Prime Consultant Subcontractor Manufacturer Supplier

The undersigned is prepared to perform the following described work in connection with the above-referenced project (specify in detail the particular work and/or parts thereof to be performed):

Permitting and CA Services

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 1.66 %

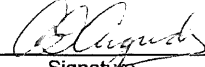
and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If the undersigned intends to subcontract any portion of the work described above to another subcontractor, please complete the following:

_____ % DBE Certified
(Name of Subcontractor) (Percentage of work to be subcontracted) Non-DBE

The undersigned affirms that it has the resources necessary to perform the work described above without subcontracting the work to another subcontractor, except as noted above.

A.D.A. Engineering, Inc.
Printed Name of DBE Subcontractor

By: 
Signature

Date: 1-7-2022

Airport General Consulting Professional Services - 2018					
RFP #: DOA-18-1 - Misc. Projects					
Date: November 29, 2017					
Marketplace: BC, PBC, MDC					
DBE Project Goal: 18% - adjusted for past participation					
NAICS Description	NAICS Code	Estimated Percentage of	Available DBE	Total Available	Weighted Percentage
Engineering Services	541330	30.00%	149	1286	3.48%
Architectural Services	541310	30.00%	40	667	1.80%
Construction Management	236220	10.00%	239	815	2.93%
Testing Services	541380	5.00%	12	92	0.65%
Land Surveying & Mapping	541370	5.00%	24	144	0.83%
Planning Services	541320	10.00%	15	166	0.90%
Other Consulting Services	541690	10.00%	64	571	1.12%
Total		100.00%			11.72%

General Consulting Services Contracts	DBE Participation (to date)
R2006-2418	21%
R2009-1643	31%
R2011-1333	29%
R2014-0031	13%
Median Participation	25%
Adjustment for Past Participation	18%
DBE Project Goal	Percentage
	18%