





**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2023	2024	2025	2026	2027
Capital Expenditures	\$1,153,627	_____	_____	_____	_____
Operating Costs	_____	_____	_____	_____	_____
External Revenues (Grants)	_____	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
NET FISCAL IMPACT	\$1,153,627	_____	_____	_____	_____
# ADDITIONAL FTE POSITIONS (Cumulative)	_____	_____	_____	_____	_____

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

Budget Account No: Fund 4111 Department 121 Unit A107 Object 6505  
Reporting Category \_\_\_\_\_

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

Approval of this item will result in capital expenditures of \$1,153,627.

C. Departmental Fiscal Review: Debbie Henderson

**III. REVIEW COMMENTS**

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

Lisa Mata 1/13/2023  
MG 1/12 OFMB QA 1/12

Ar. J. [Signature] 1/19/23  
Contract Dev. and Control  
TMA 1/18/23

**B. Legal Sufficiency:**

Anne Helgert 1/23/23  
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.

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%				
<b>Total</b>		<b>100.00%</b>			<b>11.72%</b>				

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%
<b>DBE Project Goal</b>	<b>Percentage 18%</b>



**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 7<sup>th</sup> Street, Los Angeles, CA 90017-0000 and that the Corporation's principal place of business is 300 South Grand Avenue, 9<sup>th</sup> 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 18<sup>th</sup> 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

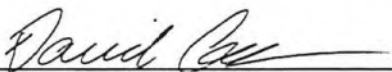
**RESOLVED:** That, in addition to all Senior Vice Presidents and above as set forth in Article IX, Section 16 of the Restated By-Laws as amended, the following U.S. based persons are designated with authority by the Board of Directors to execute contracts and other legal documents on behalf of the Corporation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

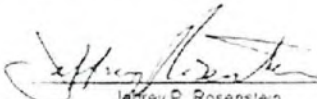
Effective October 8, 2018:

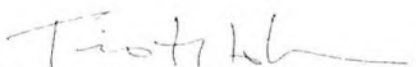
Last Name	First Name	Region	Area/Market Sector	Business Line
Kacer	Andrew	Southeast	Greater Florida	Transportation



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

  
\_\_\_\_\_  
David Gan

  
\_\_\_\_\_  
Jeffrey P. Rosenstein

  
\_\_\_\_\_  
Timothy Keener

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**AMENDMENT NO. 10 TO CONTRACT  
BETWEEN  
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS  
AND  
AECOM TECHNICAL SERVICES, INC.  
FOR  
GENERAL CONSULTING SERVICES  
AT  
PALM BEACH COUNTY AIRPORTS**

**R2023 0215**

This Amendment No. 10 to the Contract is made as of the \_\_\_\_\_ day of FEB 07 2023, 2023, 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, on February 8, 2022, the COUNTY entered into an Amendment No. 7 (R2022-0134) with the CONSULTANT to exercise the final 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 June 7, 2022, the County entered into an Amendment No. 8 (R-2022-0573) 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 18, 2022, the County entered into an Amendment No. 9 (R-2022-1243) 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 One Nine Hundred Fifty Three Thousand Six Hundred Twenty Six Dollars and Twenty Eight Cents (\$1,153,626.28) for the services in Amendment No. 10 to the original Contract.
2. 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 Tenth 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.

**R2023 0215** FEB 07 2023  
PALM BEACH COUNTY, FLORIDA  
BOARD OF COUNTY COMMISSIONERS

ATTEST:

JOSEPH ABRUZZO  
CLERK OF THE CIRCUIT COURT  
& COMPTROLLER

By: *Joseph Powell*  
Deputy Clerk



By: *Gregg K. Weiss*  
Gregg K. Weiss

WITNESS:

Clint  
Martin

Digitally signed by Clint Martin  
DN: cn=Clint Martin, c=US,  
ou=AECOM,  
email=clint.martin@aecom.com  
Date: 2023.01.04 13:58:19 -05'00'

\_\_\_\_\_  
SIGNATURE

Clint Martin

Name (type or print)

CONSULTANT:

AECOM Technical Services, Inc.  
COMPANY NAME

Andrew Kacer

Digitally signed by Andrew Kacer  
DN: C=US, E=andy.kacer@aecom.com,  
O=AECOM, CN=Andrew Kacer  
Date: 2023.01.04 15:49:41 -05'00'

Signature

Andrew Kacer

Name (type or print)

Vice President

Title

APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY

BY: *Anne DeFond*  
County Attorney

APPROVED AS TO TERMS  
AND CONDITIONS

By: *Jana Bick*  
Department Director



## AMENDMENT NO. 10 INDEX

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### CERTIFICATE OF INSURANCE

#### EXHIBIT A: AMENDMENT NO. 10

- |             |   |
|-------------|---|
| EXHIBIT A-1 | Task I-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RPR      |
| EXHIBIT A-2 | Task I-23-PBI-A-083 PBI Pavement Repairs CA/RPR Services      |
| EXHIBIT A-3 | Task I-23-LNA-A-084 LNA West Apron Reconstruction (CA/CM/RPR) |
| EXHIBIT A-4 | Task I-23-PBI-A-085 PBI Garage Repairs CM/CA/RPR Services     |

**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 A++g, XV	Compliant					DOA 18-1	Consulting Professional Services
			ACE American Insurance Company	ISAH25564959	4/1/2022	4/1/2023	Auto Liability		
			ACE American Insurance Company	HDOG72489974	4/1/2022	4/1/2023	General Liability		
			Illinois Union Insurance Company	EONG21654693005	4/1/2022	4/1/2023	Professional Liability		
			ACE American Insurance Company	SCFC68926440	4/1/2022	4/1/2023	Workers Comp		
			ACE American Insurance Company	wlrc68926324	4/1/2022	4/1/2023	Workers Comp		
			Indemnity Insurance Company of North America	WLCRC68926361	4/1/2022	4/1/2023	Workers Comp		

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

## EXHIBIT A

This Amendment No. 10 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-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RPR      |
| EXHIBIT A-2 | Task I-23-PBI-A-083 PBI Pavement Repairs CA/RPR Services      |
| EXHIBIT A-3 | Task I-23-LNA-A-084 LNA West Apron Reconstruction (CA/CM/RPR) |
| EXHIBIT A-4 | Task I-23-PBI-A-085 PBI Garage Repairs CM/CA/RPR Services     |



## EXHIBIT A-1

# **PALM BEACH DOA GENERAL CONSULTING SERVICES**

## **EXHIBIT A-1**

### **Miscellaneous Architectural, Planning, Engineering and Construction Services**

#### **Palm Beach International Airport (PBI)**

#### **Task I-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RPR**

### **OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RPR Project (Project) at Palm Beach International Airport (PBI). The scope of work for this Project includes providing Construction Documents, Bidding Services, 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:

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	Project Management, civil design, development of base sheets, coordination between disciplines and quality review, CA, CM, RPR
Quantum Electrical Engineering, Inc. (SUBCONTRACTOR)	Electrical Engineering
Tierra South Florida, Inc. (SUBCONTRACTOR)	Material Testing Services

The FAA Airport Certification Safety Inspector issued a Report, dated April 22, 2022, to the DOA, with findings at PBI that included PBI Runway Safety Areas (RSAs). The Report noted the observation of potentially hazardous humps, depressions, and other surface variations observed in nine areas associated within the RSAs of Runways 10L/28R and 14/32. AECOM evaluated the areas identified by the inspector and prepared a letter highlighting the preliminary recommendations to address the safety concerns that were highlighted.

For this Project, the AECOM Team will prepare Bid Documents in four work areas within the RSA of Runway 10L-28R to address the areas highlighted by the inspector and bring the areas into compliance with FAA Standards.

## **Task I – Bid Document Development**

### **Advance Bid Documents**

The following elements are included as part of this task:

- a) Kick-off meeting will be held with DOA and Design Team prior to task beginning in order to discuss design objective and goals.
- b) Advance Bid Documents will be developed. Drawings will include existing conditions plans, demolition plans and proposed work plans, cross sections, stormwater pollution prevention plans and notes, and phasing.
- c) 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.

During this phase, the Advance Bid Documents 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 (Advance Bid Documents)**

1. Kick-Off Meeting Minutes
2. Advance Bid Documents
  - o Contract Drawings - .pdf;
  - o Estimate of Probable Program Cost - pdf;
  - o Complete Project Manual - .pdf;
  - o Draft Construction Phasing and Safety Plan.
3. Meeting Minutes from the Advance Bid Document Review Meeting.

### **Bid Documents**

The CONSULTANT will develop Bid Documents from the approved Advance Bid Documents. They will consist of the information contained in the Advance Bid Documents, as well as incorporate any comments provided and by DOA, Permit Agencies, or other authorized reviewers, as directed by DOA.

### **Deliverables (Bid Documents)**

1. Bid Documents
  - o Contract Drawings - .pdf;
  - o Estimate of Probable Program Cost - pdf;
  - o Complete Project Manual - .pdf;
  - o Construction Phasing and Safety Plan.

## **Task II – Bidding Services**

After authorization to proceed with the Bidding Phase, CONSULTANT will assist the DOA in advertising for and obtaining bids for each separate prime contract for construction, materials, equipment and services; and, where applicable, maintain a record of prospective bidders to whom Bidding Documents have been issued, 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.

**Meetings**

The CONSULTANT will attend the following meetings during this Phase:

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

**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.

**Task III – 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 (Five (5) 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 IV – 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. 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. AECOM will review Guarantees, Warranties, Certifications, and Operation & Maintenance Manuals provided by the Contractor;
- G. 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,
- H. Provide Construction Support Services to DOA during the performance of the Project.
- I. RPR Services: CONSULTANT will provide full-time RPR 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;

**PROJECT SCHEDULE**

The duration of this Project is: Procurement: 60 Days, Construction: 93 Days, and Close-Out: 30 Days, for a Total of 183 Days. AECOM is scheduled to complete this project within 200 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. DOA will submit the Construction Safety Phasing Plan to the FAA.
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-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RRP**

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

Task Description	QC Reviews	Senior Project Manager	Labor Estimate (Hours)						Fee Estimate (\$)			
			Construction Manager	Project Engineer	Clinical	Total	Labor	Expenses	Total			
<b>Task I-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RRP</b>												
<b>1.0 BID DOCUMENT DEVELOPMENT (LUMP SUM)</b>	<b>12</b>	<b>38</b>	<b>117</b>	<b>236</b>	<b>121</b>	<b>524</b>	<b>\$ 772,082</b>	<b>\$ 0</b>	<b>\$ 772,082</b>			
A Kick-Off Meeting/Minutes		1	2	2	1	6	\$ 941		\$ 941			
B Advance Bid Document Development	6				4	10	\$ 1,446		\$ 1,446			
Cover Sheet			1	1		2	\$ 302		\$ 302			
Drawing Index, Summary of Quantities, and General Notes			1	4		5	\$ 662		\$ 662			
Survey Control Plan		1	2	4		7	\$ 1,091		\$ 1,091			
Overall and Work Area Phasing Plans		1	8	12		21	\$ 3,143		\$ 3,143			
Construction Safety & Security Notes & Details		1	1	4		6	\$ 909		\$ 909			
Existing Conditions and Demolition Plans		2	4	12		18	\$ 2,662		\$ 2,662			
Grading and Drainage Notes and Legend		2	24	50		76	\$ 10,862		\$ 10,862			
Grading and Drainage Plans		2	4	16		22	\$ 3,142		\$ 3,142			
Aircraft Related Structure Details		2	2	4		8	\$ 1,338		\$ 1,338			
Overall Cross Section Layout Plans		2	12	30		44	\$ 6,278		\$ 6,278			
Cross Sections				12		12	\$ 1,440		\$ 1,440			
Perform Project Site Visits			4	4	16	24	\$ 2,648		\$ 2,648			
Develop Program Cost Estimate			4	4	16	24	\$ 2,648		\$ 2,648			
Develop Front End Project Manual			4	4	16	24	\$ 2,648		\$ 2,648			
Develop Technical Specifications			4	4	16	24	\$ 2,648		\$ 2,648			
Bid Document Development	6				4	10	\$ 1,446		\$ 1,446			
Cover Sheet			1	1		2	\$ 302		\$ 302			
Drawing Index, Summary of Quantities, and General Notes			1	2		3	\$ 422		\$ 422			
Safety Plan		1	1	2		4	\$ 669		\$ 669			
Survey Control Plan		1	1	2		4	\$ 669		\$ 669			
Overall and Work Area Phasing Plans		1	4	8		13	\$ 1,935		\$ 1,935			
Construction Safety & Security Notes & Details		1	1	2		4	\$ 669		\$ 669			
Existing Conditions and Demolition Plans		2	4	4		10	\$ 1,702		\$ 1,702			
Grading and Drainage Notes and Legend		2	2	8		12	\$ 1,818		\$ 1,818			
Grading and Drainage Plans		2	6	6		14	\$ 2,306		\$ 2,306			
Aircraft Related Structure Details		1	2	8		11	\$ 1,571		\$ 1,571			
Overall Cross Section Layout Plans		1	1	2		4	\$ 669		\$ 669			
Cross Sections			4	4		9	\$ 1,455		\$ 1,455			
Develop Program Cost Estimate		1	4	4	16	24	\$ 2,648		\$ 2,648			
Develop Front End Project Manual			4	4	16	24	\$ 2,648		\$ 2,648			
Develop Technical Specifications			4	4	16	24	\$ 2,648		\$ 2,648			
Task Management/Sub-Agreements/Invoicing		8	22	38	3	72	\$ 10,991	\$ 0	\$ 10,991			
<b>2.0 BIDDING SERVICES (LUMP SUM)</b>	<b>1</b>	<b>8</b>	<b>22</b>	<b>38</b>	<b>3</b>	<b>72</b>	<b>\$ 10,991</b>	<b>\$ 0</b>	<b>\$ 10,991</b>			
Submit Bid Documents to DOA:						0	\$ -		\$ -			
Bid Drawings		1	6	12	1	20	\$ 2,869		\$ 2,869			
Bid Technical Specifications		1	4	8		13	\$ 1,935		\$ 1,935			
Final Updates Bid Front End Specifications & FAA General Provisions			2	4		6	\$ 844		\$ 844			
Bid Project Construction Cost Estimate		2	2	2		6	\$ 1,098		\$ 1,098			
Pre-Bid Conference		2	4	4		10	\$ 1,702		\$ 1,702			
Addenda	1	1	2	6	2	12	\$ 1,692		\$ 1,692			
Bid Recommendation Letter		1	2	2		5	\$ 851		\$ 851			

Exhibit B  
Labor/fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task I-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RRP

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

Task Description	Labor Estimate (Hours)										Fee Estimate (\$)		
	OC Reviewer	Senior Project Manager	Construction Manager	Project Engineer	Clerical	Total	Labor	Expenses	Total				
<b>Task I-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RRP</b>													
<b>3.0 CONSTRUCTION ADMINISTRATION/CONSTRUCTION MANAGEMENT SERVICES (LUMP SUM + REIM.)</b>	<b>9</b>	<b>29</b>	<b>138</b>	<b>170</b>	<b>16</b>	<b>362</b>	<b>\$55,748</b>	<b>\$3,000</b>	<b>\$58,748</b>				
A Pre-Construction Conference		2	2	2	2	6	\$ 1,038		\$ 1,038				
A Construction Team Meeting / Kick-Off Meeting		2	2	2	2	6	\$ 1,098		\$ 1,098				
A Bi-Weekly Progress Meetings (6 Const. Meetings)		5	10	10	10	25	\$ 4,285	\$ 1,000	\$ 5,285				
A Pre-Activity Construction Meetings (2 @ 4 hrs/eg)			4	4		8	\$ 1,208		\$ 1,208				
B Prepare Conformity and Executed Contract Documents	2	1	2	12	4	21	\$ 2,773	\$ 1,000	\$ 3,773				
C Review Contractor's MOT Plans		1	4	4		5	\$ 975		\$ 975				
D Review Contractor's Critical Path Schedule		1	4	4		5	\$ 975		\$ 975				
E Review Contractor's Security Plans		2	2	4		6	\$ 844		\$ 844				
F Process Review and Approve Shop Drawings and Submittals	2	2	8	16		28	\$ 4,232		\$ 4,232				
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	2	8	8		19	\$ 3,091		\$ 3,091				
H Establish and Maintain Project Records			8	8	8	24	\$ 3,136		\$ 3,136				
I Review Applications for Payment			6	6		12	\$ 1,812		\$ 1,812				
J Periodic Inspections (Bi-weekly)			12	12		24	\$ 3,624		\$ 3,624				
K Preparation of Change Orders, Notices of Non-Compliance etc....	2		4	4		10	\$ 1,702		\$ 1,702				
L Task management and Co-ordination		8	12	12		32	\$ 5,600		\$ 5,600				
M Asa Built Review			4	8		12	\$ 1,688		\$ 1,688				
N Prepare Record Drawings	4		8	16		28	\$ 4,100		\$ 4,100				
O Project Closeout			8	8	2	18	\$ 2,596		\$ 2,596				
A Pre-Construction Inspection & Photographs			4	4		4	\$ 480		\$ 480				
B Review QA Survey Results			4	8		12	\$ 1,688		\$ 1,688				
C Review Daily Reports			1	1		1	\$ 182		\$ 182				
D Material Testing Coordination			1	1		1	\$ 182		\$ 182				
E QA Material Testing Results			1	1		1	\$ 182		\$ 182				
F Review Guarantees, Warranties, Certifications, and O&M Manuals			1	1		1	\$ 182		\$ 182				
G Substantial and Final Completion Inspection	2		4	8		14	\$ 2,182	\$ 500	\$ 2,682				
H Construction Support Services			16	16		32	\$ 4,832	\$ 500	\$ 5,332				
<b>4.0 FULL TIME INSPECTION (T&amp;M)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>790</b>	<b>0</b>	<b>790</b>	<b>\$94,800</b>	<b>\$1,000</b>	<b>\$95,800</b>				
Full Time Inspection (40 hours procurement, 13 weeks@50/wk, and 100 for 30 days closeout period.)				790		790	\$ 94,800	\$ 1,000	\$ 95,800				
<b>Total Fee - AECOM Technical Services, Inc.</b>	<b>22</b>	<b>75</b>	<b>277</b>	<b>1,234</b>	<b>140</b>	<b>1,748</b>	<b>\$ 233,601</b>	<b>\$ 4,000</b>	<b>\$ 237,601</b>				

Subconsultant Fees Task 1.0		
1	TSF (T&M)	\$ 4,120
	TSF (Expenses)	\$ 98,920.00
2	Quantum (LS)	\$ 18,536.30
	Quantum (T&M)	\$ 260,257.30
<b>Total Fee - Subconsultants</b>		<b>\$ 22,656.30</b>
<b>GRAND TOTAL FEE - BASIC ENGINEERING SERVICES</b>		<b>\$ 260,257.30</b>

Lump Sum	\$157,337.30
T&M	\$98,920.00
Expenses	\$4,000.00
<b>Total</b>	<b>\$260,257.30</b>

Prepared by: AECOM Technical Services, Inc.



December 20, 2022

AECOM Technical Services, Inc.  
Mr. Clint Martin, P.E.  
Project 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 International Airport Safety Area Improvements.

Dear Clint:

Quantum Electrical Engineering, Inc. (QUANTUM) is pleased to provide AECOM a construction administration services fee proposal for Palm Beach International Airport (PBI) Safety Area Grading Improvements Safety Area Improvements

The following tasks are included in our scope of services:

- Based on 3 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 4 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**

**\$ 5,861.46**

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](http://www.QuantumElectricalEngineering.com)

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





December 20, 2022

AECOM Technical Services, Inc.  
Mr. Clint Martin, P.E.  
Project Manager  
7650 West Courtney Campbell Causeway  
Tampa, FL 33607

Subject: Electrical Design Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – Palm Beach International Airport Grading Improvements as identified on the PBIA Runway Safety Area Grading Improvements Exhibit dated August 2022.

Dear Clint:

Quantum Electrical Engineering, Inc. (QUANTUM) is pleased to provide AECOM an electrical design services fee proposal for Palm Beach International Airport (PBI) Safety Area Grading Improvements Grading Improvements

The following tasks are included in our scope of services:

- Includes design coordination meetings with the DOA, FAA and AECOM Team.
- Includes record drawing reviews, on-site electrical verifications, and visual assessment of existing conditions.
- Includes airfield electrical plans reflecting modification of existing electrical systems in the following Areas:
  - Area 1: Includes modifications of two FAA MALSR stations and affiliated conduit and wiring systems. Includes coordination with FAA and upgrading stations to current FAA standards.
  - Area 2: AECOM to grade around existing electrical features.
  - Area 3: AECOM to grade around existing electrical features
  - Area 4: Work to be completed by the Central Airfield project.
  - Area 5: AECOM to grade around existing electrical features
  - Area 6: Does not appear to contain any active DOA, FAA or FPL systems.
  - Area 7: Work to be completed by the Central Airfield project.
  - Area 8: Work to be completed by the Central Airfield project.
  - Area 9: Work to be completed by the Central Airfield project.
  - Sheet 9: Work will be completed by the Central Airfield project.
- Includes Bid and Award Services, addenda and RFI responses and revisions, review of bid pricing results and electrical recommendation.

Assumptions and Exclusions:

- AECOM shall provide all base drawings to QUANTUM on AutoCAD 2020 or higher.

Palm Beach County  
2755 Vista Parkway, Suite I-9  
West Palm Beach, FL 33411  
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Coral Springs, FL 33067  
954.369.5810

- AECOM to provide marking files, electrical locations of equipment will be based off of the marking files.
- QUANTUM shall provide 1-set of electronic electrical plans & specifications to AECOM for Advanced Bid Set reviews and Bid Set documents.
- AECOM shall provide all printing of Plans & Specifications for reviews, bid phase and construction phases.
- Does not include construction services.

Our proposed Lump-Sum fee for Task 1 is:	\$ 11,342.16
Our proposed Lump-Sum fee for Task 2 is:	\$ 1,332.68
<b>Our proposed total Lump-Sum fee is</b>	<b>\$ 12,674.84</b>

Sincerely,



Amy L. Champagne-Baker, PE  
President

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**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS - Safety Area Improvements Project  
 QUANTUM ELECTRICAL ENGINEERING, INC.  
 SCOPE FEE SUMMARY  
 FEE PROPOSAL ELECTRICAL DESIGN to AECOM 12/5/2022**

PHASE OF WORK	Rate	\$161.54 Proj. Mgr. Hours	\$144.23 Prof. Eng Hours	\$138.46 Proj. Eng Hours	\$69.23 CADD/Tech Hours	\$46.15 Clerical Hours	Total Hours	Expenses	TOTAL TASK COST
<b>Task 1: Advance Bid Documents</b>									
Design Review Migs DOA and AECOM		4					4		\$576.92
Field Investigation, record drawing review, coordination		4					4		\$576.92
FAA Coordination		4					4		\$576.92
Electrical Design Drawings		8		8	16		32		\$3,369.20
Specifications & Cost Estimate		4		4		8	16		\$1,499.96
QA/QC & Comment Incorporation		4		4	4	2	14		\$1,499.98
<b>Subtotal</b>		<b>0</b>	<b>28</b>	<b>16</b>	<b>20</b>	<b>10</b>	<b>74</b>		<b>\$8,099.90</b>
<b>Bid Documents</b>									
Design Review Migs DOA and AECOM			2				2		\$288.46
Electrical Design Drawings			4	4	4		12		\$1,407.68
Specifications & Cost Estimate			2	2		4	8		\$749.98
QA/QC & Comment Incorporation			2	2	2	2	8		\$796.14
<b>Subtotal</b>		<b>0</b>	<b>10</b>	<b>8</b>	<b>6</b>	<b>6</b>	<b>30</b>		<b>\$3,242.26</b>
<b>Task 2: Bid &amp; Award</b>									
Attend Pre-Bid Meeting			2				2		\$288.46
Review of Bid Results & Recommendation			1				1		\$144.23
RFI Responses			4		4	1	9		\$899.99
<b>Subtotal</b>		<b>0</b>	<b>7</b>	<b>0</b>	<b>4</b>	<b>1</b>	<b>12</b>		<b>\$1,332.68</b>
<b>Grand Total Hours</b>		<b>0</b>	<b>45</b>	<b>24</b>	<b>30</b>	<b>17</b>	<b>116</b>		<b>\$12,674.84</b>
<b>Grand Total Labor Cost</b>		<b>\$0.00</b>	<b>\$6,490.35</b>	<b>\$3,323.04</b>	<b>\$2,076.90</b>	<b>\$784.55</b>			



December 21, 2022

Mr. Clint Martin, P.E.  
AECOM  
7650 West Courtney Campbell Causeway  
Tampa, Florida 33607  
Email: [clint.martin@aecom.com](mailto:clint.martin@aecom.com)  
Phone: 813-286-1711

Re: **Proposal for Construction Materials Testing Services  
PBIA Part 139 Grading  
Palm Beach International Airport  
Palm Beach County, Florida  
TSF Proposal No.: 2212-721**

Dear Clint:

**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 some minor pipe repairs.

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

- Density tests (using nuclear density methods) on embankment fill along with representative Proctor tests, Atterberg Limits and organic content tests.
- Concrete testing for tiedowns and miscellaneous.

TSF will provide experienced technical personnel to perform the necessary testing 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 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 **\$4,120.00**

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**



R. Morgan Dickinson, P.E.  
Principal Engineer  
FL. Registration No. 37557



Stephen Hey  
CS Department Manager

Attachments:            Unit Fee Schedule



**Fees Breakdown for  
Construction Materials Testing Services**

**I. Laboratory Testing Services**

Concrete Tests, 3 tests @ \$140.00/set	\$ 420.00
Moisture-Density (Modified Proctor Test), 5 tests @ \$105.00/each	\$ 525.00
Atterberg Limits, 5 tests @ \$75.00/each	\$ 375.00
Organic Content Tests, 5 tests @ \$35.00/each	<u>\$ 175.00</u>

**SUBTOTAL: \$1,495.00**

**II. Construction Services-Soil and Concrete Testing**

Engineering Technician –6 trips (Minimum 5 tests per trip) @ \$125.00/trip	\$ 750.00
Additional Density Tests – beyond 5 per trip, 15 tests @ \$25.00/test	\$ 375.00
Senior Technician – 6 hours @ \$75.00/hour	<u>\$ 450.00</u>

**SUBTOTAL: \$ 1,575.00**

**III. Professional Services**

Project Manager, 6 hours @ \$175.00/hour	<u>\$ 1,050.00</u>
--	--------------------

**SUBTOTAL: \$ 1,050.00**

**TOTAL CONSTRUCTION MATERIALS TESTING SERVICES: \$ 4,120.00**

## 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-23-PBI-A-083 PBI Pavement Repairs CA/RPR Services**

**OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-23-PBI-A-083 PBI Pavement Repairs CA/RPR Services Project (Project) at Palm Beach International Airport (PBI). The scope of work for this Project includes providing limited Construction Administration (CA) and Resident Project Representative Services (RPR) services for this Project.

**PROJECT TEAM**

<b>The Project Team: Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	CA/RPR Services

**PROJECT OBJECTIVE AND APPROACH**

This Project addresses pavement distresses at various locations throughout PBI. There are 16 work areas delineated in the Bid Package PB 22-12 where various pavement repairs will be made. The work consists of crack repair, mill and overlay of existing asphalt pavement, PCC slab replacement, and remarking of the impacted areas.

**Task I – CA Services**

AECOM will be providing limited CA Services throughout the scheduled construction of this Project and will include the following:

1. 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;
2. Interpretation and clarification of Contract Documents: Respond to various Requests for Information, Job memoranda, and other field prepared inquiries;

All other components typically associated with CA Services (meeting coordination, review applications of payment, record documents, etc...) that are not specifically listed will be completed by the DOA.



## **Task II – RPR Services**

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

1. RPR Services: CONSULTANT will provide part-time, a maximum of 450 hours of on-site observations (assume 10 hours for up to forty-five (45) night time work shifts) 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 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.

### **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.
6. AECOM is serving as a supporting role to the DOA who is acting as the primary RPR and Construction Manager. All tasks not specifically listing in this scope are assumed to be completed by the DOA.

Exhibit B.2  
 Labor Fee Estimate Summary - CONSULTANT (AECOM Technical Services, Inc.) - Task 1.03-PBI-A-083 PBI Pavement Repairs CARRR Services

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

Task Description	Labor Estimate (hours)							Fee Estimate (\$)	
	Representative (RPR)	DC Reviewer	Senior Project Manager	Construction Manager	Project Engineer	Clerical	Total	Labor	Expenses
1.0 CONSTRUCTION ADMINISTRATION SERVICES (LUMP SUM)	0	3	8	23	0	0	34	\$6,705	\$0
H Process Review and Approve Shop Drawings and Submittals		2	4	14			20	\$3,898	
K Interpretation and Clarification of Contract Documents/RFI's		1	4	9			14	\$2,807	
1 RPR SERVICES (T&M)	0	0	0	0	450	0	450	\$54,000.00	\$1,000.00
A Part Time Inspections (450 hours maximum)					450		450	\$54,000	\$1,000
<b>Total Fee - AECOM Technical Services, Inc.</b>	0	3	8	23	450	0	484	\$60,705.00	\$1,000.00

LS	\$6,705.00
TM	\$54,000.00
EXP	\$1,000.00
<b>Total</b>	<b>\$61,705.00</b>

Subconsultant Fees Task 1.0

Total Fee - Subconsultants \$

GRAND TOTAL FEE - BASIC ENGINEERING SERVICES \$ 61,705.00

Prepared by: AECOM Technical Services, Inc.

## EXHIBIT A-3



**PALM BEACH DOA GENERAL CONSULTING SERVICES**

**EXHIBIT A-3**

**Miscellaneous Architectural, Planning, Engineering and Construction Services**

**Palm Beach County Park (LNA)**

**Task I-23-LNA-A-084 LNA West Apron Reconstruction (CA/CM/RPR)**

**OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-23-LNA-A-084 LNA West Apron Reconstruction (CA/CM/RPR) Project at Palm Beach County Park (LNA). The scope of work for this Project includes providing Construction Administration (CA), Construction Management (CM), and Resident Project Representative Services (RPR) services for this Project.

**PROJECT TEAM**

The Project Team for these construction services will consist of:

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (AECOM)	CM/CA/RPR Services
CH2M HILL, Inc. (CH2M)	Airfield CA
Tierra South Florida, Inc. (SUBCONTRACTOR)	Material Testing Services

**PROJECT OBJECTIVE AND APPROACH**

This Project includes providing Construction Administration (CA), Construction Management (CM), and Resident Project Representative Services (RPR) services for this Project that constructs improvements for the improvements for the LNA West Apron that include:

- Reconstruction of the General Aviation (GA) West Apron
- Aircraft Parking Tie-down Reconfiguration
- Drainage Improvements, and the
- Pavement Marking Application for Airfield Services Road extending from the new west driveway entrance (LN 17-1 constructed by others) to the west of the transient ramp, immediately north of the existing terminal building.

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. Final acceptance shall be achieved within a period of Thirty (30) Calendar Days from the date of substantial completion.

### **Task I – CM/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 four (4) progress meetings during procurement and seventeen (7) bi-weekly construction progress meetings plus two (2) progress meetings during Final Close-out, job conferences and other project related meetings. 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: Review and approve shop drawings prior to the beginning of construction activities. Develop and maintain a log that summarizes status of all shop drawings;
- E. Clarification of Contract Documents: Respond to various Requests for Information, Job memoranda, and other field prepared inquiries;
- F. 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.
- G. Payment Requests: Review applications for payment with quantities observed and forward recommendations to the DOA;
- H. 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;
- I. Task Management and Coordination: Coordinate as needed with DOA Operations and other Project stakeholders;
- J. 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;
- K. AECOM will use all readily available information including the Contractor's As-builts to prepare Record Drawings for the completed work; and
- L. Project Close-out Activities: AECOM will prepare Certificate of Substantial Completion, and other Project related Close-out activities.

### **Task II – RPR Services**

As Part of this task, AECOM will perform the following services as part of 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.
- B. CONSULTANT will review Contractor Daily Reports;
- C. 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, 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;

- D. Periodic Inspection Services: AECOM construction manager will provide periodic inspections (bi-weekly inspections total of seven (7) inspections);
- E. Interpretation and AECOM will review Guarantees, Warranties, Certifications, and Operation & Maintenance Manuals provided by the Contractor;
- F. 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,
- G. Provide Construction Support Services to DOA during the performance of the Project.
- H. RPR Vehicle and Mileage

**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 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-23-LNA-A-084 LNA West Apron Reconstruction (CACMRPR)

Billing Rate: \$ 97 \$ 212 \$ 247 \$ 182 \$ 185 \$ 120 \$ 90

Task Description	Labor Estimate (Hours)										Fee Estimate (\$)	
	Resident Project Representative (RPR)	Senior Structural Engineer	Senior Project Manager	Construction Manager	Senior Engineer	Project Engineer	Chemical	Total	Labor	Expenses	Total	
<b>1.0 CACM SERVICES (LUMP SUM + EXP.)</b>	0	0	16	100	0	69	28	213	\$32,932	\$0	\$32,932	
A Pre-Construction Conference			2	2		4		8	\$1,338		\$1,338	
A Construction Team Meeting / Kick-Off Meeting			2	1				3	\$676		\$676	
A Bi-Weekly Progress, Pre-NTP, and Misc Meetings (13 Const. Meetings) Includes Meeting Minutes			2	39		13		54	\$9,162		\$9,162	
B Review Contractor's MOT Plans			2	2				4	\$658		\$658	
C Review Contractor's Critical Path Schedule				8				8	\$1,456		\$1,456	
D Process Review and Approve Shop Drawings and Submittals			1	2		8		11	\$1,571		\$1,571	
D Process Review and Approve Shop Drawings and Re-Submittals			1	2		4		7	\$1,091		\$1,091	
E Interpretation and Clarification of Contract Documents/RFIs			1	8		8		17	\$2,663		\$2,663	
F Establish and Maintain Project Records			4	4		4		12	\$1,208		\$1,208	
G Review Applications for Payment			1	8		8		17	\$2,663		\$2,663	
H Preparation of Change Orders, Notices of Non-Compliance etc.:			2	8		8		18	\$2,510		\$2,510	
I Task management and Co-ordination			2	4			24	30	\$3,382		\$3,382	
J As Built Review				2		4		6	\$844		\$844	
K Prepare Record Drawings				2				2	\$364		\$364	
L Project Closeout				8		4		12	\$2,176		\$2,176	
<b>2.0 RPR SERVICES (T&amp;M plus EXP.)</b>	0	0	1	51	0	716	0	768	\$95,449	\$10,000	\$105,449	
A Pre-Construction Inspection & Photographs			8			8		8	\$960		\$960	
B Review Contractor Daily Reports				16				16	\$2,912		\$2,912	
C Full Time Inspections (100 calendar days 50 hours per week)			700			700		700	\$84,000		\$84,000	
D Periodic Inspections (seven (7) hour bi-weekly inspections)				14				14	\$2,548		\$2,548	
E Review Guarantees, Warranties, Certifications, and O&M Manuals			1					2	\$429		\$429	
F Substantial and Final Completion Inspection				4		8		12	\$1,688		\$1,688	
G Construction Support Services				16				16	\$2,912		\$2,912	
G RPR Vehicle and Mileage								0	\$-		\$-	
<b>Total Fee - AECOM Technical Services, Inc.</b>	0	0	17	151	0	785	28	981	\$128,401	\$10,000	\$138,401	

Subconsultant Fees Task 1.0	
1 CH2M	LS \$ 55,351.57
	EXP \$ 2,450
	T&M \$ 11,350.00
Triera S FL	LS \$ 88,303.57
	EXP \$ 106,893.00
	T&M \$ 17,389
	<b>Total \$207,492.57</b>
	Vehicle \$2,000/Mo

<b>Total Fee - Subconsultants</b>	\$ 69,091.57
<b>GRAND TOTAL FEE - BASIC ENGINEERING SERVICES</b>	\$ 207,492.57

Prepared by: AECOM Technical Services, Inc.

## Overview

Professional services described herein will be authorized by the Notice-to-Proceed for this project. CH2M HILL, INC. (CH2M), a wholly owned subsidiary of Jacobs Engineering Group Inc., will provide Construction Administration (CA) Services associated with the West Apron Reconstruction project at Palm Beach County Park (Lantana) Airport (LNA). The project includes the following improvements:

- Reconstruction of the General Aviation (GA) West Apron
- Aircraft Parking Tie-down Reconfiguration
- Drainage Improvements
- Pavement Marking Application for Airfield Services Road extending from the new west driveway entrance (LN 17-1 constructed by others) to the west of the transient ramp, immediately north of the existing terminal building

The project construction duration is anticipated to be 60 calendar days for procurement and project start-up prior to the Contractor's Construction NTP, 100 calendar days for active construction plus 30 calendar days for Punch list and Final Pavement Markings after issuance of substantial completion for a total Contract Time of 190 calendar days. If the schedule for the project changes, CH2M will resubmit the fee estimate for this work to incorporate a change in the project schedule.

### **PHASE 5–Construction Administration:**

- 5.01 Prepare Conformed Construction Contract Documents;
- 5.02 Attend Pre-Construction Conference;
- 5.03 Attend Weekly Construction Progress Meetings – agendas and minutes 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 phasing plans, construction sequencing, 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 Laydown 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, and QA Materials Testing;
  - 5.16 Attend one Substantial 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.

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

- Conformed Contract Documents
- Project Correspondence (To/From CH2M)
- Requests for Information (RFIs)
- Field Instructions
- Field Bulletins
- Change Orders
- Shop Drawings and Submittals
- QA Materials Inspection Testing and Laboratory Reports
- 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 included 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



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responsible for any errors and omissions in the information from others which is incorporated into the record drawings.

CH2M will provide Task Coordination including emails, telephone conversations, and general correspondence with DOA. 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's 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, CH2M shall not have the authority or responsibility to issue direct instructions to the Contractor, to reject the work performed by the Contractor, or to require special instructions 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. Reviewing 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, reviewing and approving change orders, construction change directives, substitution requests, processing pay applications, accepting work performed by the contractor, preparation of notices of non-compliance, etc.
  - I. Providing a consolidated redline as-built mark-up for preparation of record drawings.
  - J. Preparing and submitting the FAA Airspace Study Checklist and as such, is not included in the scope of work.







December 21, 2022

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

Re: **Proposal for Construction Materials Testing Services  
LNA West Apron Pavement Reconstruction  
Palm Beach County Park (Lantana) Airport  
Lantana, Florida  
TSF Proposal No.: 2212-719**

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 removal and replacement of the asphalt pavement for the west apron. Work elements include but not limited to placement of stabilized subgrade, limerock basecourse, asphalt pavement, and new tiedowns.

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

- Density tests (using nuclear density methods) on subgrade and basecourse along with representative Proctor tests, gradation, Atterberg Limits and organic content tests.
- Concrete testing for tiedowns and miscellaneous.
- Asphalt plant testing.
- Asphalt monitoring in the field during placement.

TSF will provide experienced technical personnel to perform the necessary testing 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 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.

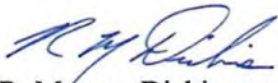
#### **ESTIMATED COST**

We proposed to accomplish the above services on a rate schedule basis using the attached rates for an estimated amount of **\$11,380.00**

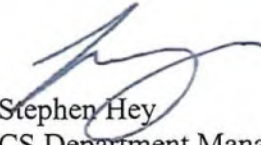
We appreciate the opportunity to offer our services for your project. Should you have any questions or need additional information, do not hesitate to contact me at (561) 687-8536.

Respectfully submitted,

**TSFGeo**



R. Morgan Dickinson, P.E.  
Principal Engineer  
FL. Registration No. 37557



Stephen Hey  
CS Department Manager

Attachments:            Unit Fee Schedule

**Fees Breakdown for  
Construction Materials Testing Services**

**I. Laboratory Testing Services**

Concrete Tests, 5 tests @ \$140.00/set	\$ 700.00
Moisture-Density (Standard Proctor Test), 2 tests @ \$105.00/each	\$ 210.00
Limerock Bearing Ratio tests (LBR), 2 tests @ \$ 300.00/each	\$ 600.00
Atterberg Limits, 2 tests @ \$75.00/each	\$ 150.00
Organic Content Tests, 2 tests @ \$35.00/each	<u>\$ 70.00</u>

**SUBTOTAL: \$1,730.00**

**II. Construction Services-Soil and Concrete Testing**

Engineering Technician –12 trips (Minimum 5 tests per trip) @ \$125.00/trip	\$ 1,500.00
Additional Density Tests – beyond 5 per trip, 10 tests @ \$25.00/test	\$ 250.00
Senior Technician – 10 hours @ \$75.00/hour	<u>\$ 750.00</u>

**SUBTOTAL: \$ 2, 500.00**

**III. Asphalt Services – Plant and Field Testing**

Asphalt Plant Inspector – 3 shifts (12 hrs/shift) @ \$75.00 /hour	\$ 2,700.00
Asphalt Field Inspector – 3 shifts (12 hrs/shift) @ \$75.00 /hour	<u>\$ 2,700.00</u>

**SUBTOTAL: \$ 5,400.00**

**III. Professional Services**

Project Manager, 10 hours @ \$175.00/hour	<u>\$ 1,750.00</u>
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**SUBTOTAL: \$ 1,750.00**

**TOTAL CONSTRUCTION MATERIALS TESTING SERVICES: \$ 11,380.00**



## EXHIBIT A-4

**PALM BEACH DOA GENERAL CONSULTING SERVICES**

**EXHIBIT A-4**

**Miscellaneous Architectural, Planning, Engineering and Construction Services**

**Palm Beach International Airport (PBI)**

**Task I-23-PBI-A-085 PBI Garage Repairs CM/CA/RPR Services**

**OVERVIEW**

The Palm Beach Department of Airports (DOA) has requested AECOM Technical Services, Inc. (AECOM) to develop this Task I-23-PBI-A-085 PBI Garage Repairs CM/CA/RPR Services 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 PBI Garage Repairs construction services will consist of:

<b>Firm Name (CONSULTANT / SUBCONTRACTOR)</b>	<b>Type of Services</b>
AECOM Technical Services, Inc. (CONSULTANT)	CM/CA/RPR Services
Quantum Electrical Engineering, Inc. (QEE)	Electrical CA Services
Johnson, Levinson, Ragan, Davila, Inc. (JLRD)	Plumbing CA Services

**PROJECT OBJECTIVE AND APPROACH**

This Project includes a Base Bid and Additive Alternate 2. The Base Bid repairs miscellaneous structural deficiencies and improves the drainage, the electrical room's HVAC, and the fire alarm in the Short-Term Parking Garage. Additive Alternate 2 repairs miscellaneous structural deficiencies and adds wayfinding signage to Long Term Parking Garage 2.

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 and twenty (120) Calendar Days for the Base Bid and another one hundred and twenty (120) Calendar Days for Additive Alternate 2. Final acceptance shall be achieved within a period of Thirty (30) Calendar Days from the date of substantial completion.

## **Task I – CM/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 four (4) progress meetings during procurement and seventeen (17) bi-weekly construction progress meetings plus two (2) progress meetings during Final Close-out, 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. 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;
- F. Clarification of Contract Documents: Respond to various Requests for Information, Job memoranda, and other field prepared inquiries;
- G. 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.
- H. Payment Requests: Review applications for payment with quantities observed and forward recommendations to the DOA;
- I. 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;
- J. Task Management and Coordination: Coordinate as needed with DOA Operations and other Project stakeholders;
- K. 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;
- L. AECOM will use all readily available information including the Contractor's As-builts to prepare Record Drawings for the completed work; and
- M. Project Close-out Activities: AECOM will prepare Certificate of Substantial Completion, and other Project related Close-out activities.

## **Task II – RPR Services**

As Part of this task, AECOM will perform the following services as part of 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.
- B. CONSULTANT will review Contractor Daily Reports;
- C. 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, 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;
- D. Periodic Inspection Services: AECOM construction manager and EOR will provide periodic inspections (bi-weekly inspections total of seventeen (17) inspections);
- E. Interpretation and AECOM will review Guarantees, Warranties, Certifications, and Operation & Maintenance Manuals provided by the Contractor;
- F. 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,
- G. Provide Construction Support Services to DOA during the performance of the Project.
- H. RPR Vehicle and Mileage

**PROJECT SCHEDULE**

AECOM is scheduled to complete this project within 330 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-23-PBI-A-085 PBI Garage Repairs CM/CARPR Services

		\$	97	212	247	182	185	120	90
		Billing Rate:							
		Labor Estimate (Hours)							
		Fee Estimate (\$)							
Task Description	Resident Project Representative (RPR)	Senior Structural Engineer	Senior Project Manager	Construction Manager	Senior Engineer	Project Engineer	Critical	Total	Total
<b>1.0</b>	<b>CACM SERVICES (LUMP SUM + EXP)</b>								
A	Pre-Construction Conference	2	2	2	2	2	2	2	2,132
A	Construction Team Meeting / Kick-Off Meeting	2	2	2	2	2	2	2	861
A	Bi-Weekly Progress, Pre-IFT, and Misc Meetings (23 Const. Meetings) Includes Meeting Minutes	8	23	46	46	8		123	24,259
B	Prepare Contract and Executed Contract Documents	2	4	8	8			22	3,828
C	Review Contractor's MOD Plans		2	8	8			10	1,950
D	Review Contractor's Critical Path Schedule		2	8	8			16	2,938
D	Process Review and Approve Shop Drawings and Submittals	16	2	8	8			26	4,368
E	Process Review and Approve Submittals and Re-Submittals	40	2	16	16			64	10,592
F	Review and Approve Contract Documents (RFI's)	24	2	60	60			146	23,502
G	Establish and Maintain Project Records	4	4	4	4			16	2,688
H	Review Applications for Payment	2	2	16	16			34	5,324
J	Preparation of Change Orders, Notices of Non-Compliance etc....	4	4	40	40		32	84	13,440
K	As Built Review			2	2			4	632
L	Prepare Record Drawings	4		2	2			6	982
L	Project Closeout			8	8			16	2,592
M	<b>RPR SERVICES (TAM plus EXP)</b>	67	1	107	103	1,020	4	2,242	37,776
A	Pre-Construction Inspection & Photographs	8	8	8	8			32	5,104
B	Review Contractor Daily Reports	8		8	8			16	2,592
C	Full Time Inspections (240 calendar days, 34 weeks, 40 hours per week times 75%)			24	24	1,020		1,020	122,400
D	Periodic Inspections (seventeen (17) hour bi-weekly inspections)	67		34	68			169	32,972
E	Review Guarantees, Warranties, Certifications, and O&M Manuals		1	1				2	429
F	Substantial and Final Completion Inspection			24	24			48	8,608
G	Construction Support Services			16	16			32	5,872
G	RPR Vehicle and Mileage							0	-
<b>Total Fee - AECOM Technical Services, Inc.</b>		131	50	376	505	1,096	36	2,202	353,515

Subconsultant Fees Task 1.0	LS	\$	6,270.00	
1	JLRD	LS	\$	12,388.41
	Quantum Electrical Engineering	LS	\$	20,656.41
<b>Total Fee - Subconsultants</b>		\$	374,171.41	

LS	\$	181,090.41
TM	\$	177,081.00
EXP	\$	16,000.00
<b>Total</b>	\$	374,171.41

Vehicle \$2,000/mo.

Prepared by: AECOM Technical Services, 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

## AUTHORIZATION FOR ENGINEERING SERVICES

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

**PROJECT:** PB-22-8 PBIA Parking Garage Repairs  
**RE:** Construction Administration Services

**DATE:** December 13, 2022

**JLRD PROJECT NO.:** 122097

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 this Project to include construction administration services, as follows:
  - Provide Shop Drawing review, Field Observations (monthly), Bi-weekly and Miscellaneous OAC meetings (12 meetings maximum), respond to construction RFI's, ASI's and produce AS-BUILT drawings from contractors redlines at the end of the project.

### PROJECT SCHEDULE

- The estimated CA duration for the project is a 210 day period to include procurement (60 days), construction (120 days), and a closeout period (30 days).
- The Construction Administration scope will last for the duration of the project.

Mr. Andrew Kacer, P. E., Greater Florida Manager – Airports  
RE: PBIA Parking Garage Repairs  
Date: December 13, 2022

EXCLUSIONS

- Witnessing of any testing procedures.

**FEES:**

1. The above-mentioned scope shall be provided based upon a lump-sum fee amount as follows:

- *Eight Thousand Two Hundred Seventy Dollars (\$8,270.00)*

**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	-	-				
<b>BASE DESIGN SCOPE</b>																		
<i>Task 1</i>																		
RFIs / Submittals / Subs Review				2				8								2	12	\$ 1,350.00
Procurement (1 visit)								4								2	6	\$ 610.00
Construction Progress Site Visits, Meetings, and Reports (10 visits)								30								6	36	\$ 3,990.00
Substantial Completion Observation - Close out (1 visit)								3								2	5	\$ 490.00
As-Built Documents								4						6		10	10	\$ 810.00
Warranty Inspection								2								2	2	\$ 240.00
General Project Management				4												4	8	\$ 780.00
																		-
																		-
																		-
																		-
																		-
																		-
																		-
<b>BASE SUBTOTAL</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>16</b>	<b>79</b>	<b>\$ 8,270.00</b>
<b>JLRD DIRECT LABOR</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>51</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>16</b>	<b>79</b>	<b>\$ 8,270.00</b>
<b>SUBCONTRACTORS</b>																		
NONE																		
OH&P @ 10%																		\$ -
<b>SUBCONTRACTOR SUBTOTAL</b>																		-
<b>EXPENSES</b>																		
<i>Travel</i>	<u>Visits</u>				<u>Fee</u>													
Parking	0																	\$ -
Overnights	<u># Nights</u>				<u>\$/Night</u>													
Hotel & Meals	0																	\$ -
<i>Reproduction</i>	<u>Sheets</u>		<u>Copies</u>		<u>Submittals</u>		<u>\$/ea.</u>											
Large Format Docs	0		3		4			\$ 1.10										\$ -
8.5" x 11": Report, Systems Manuals	0		3		4			\$ 0.10										\$ -
<b>EXPENSES SUBTOTAL</b>																		\$ -
<b>SUMMARY</b>																		
<b>JLRD DIRECT LABOR</b>																		\$ 8,270.00
<b>SUBCONTRACT</b>																		-
<b>EXPENSES</b>																		\$ -



December 13, 2022

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) – PBIA Parking Garage Improvements.

Dear Andy:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide AECOM an electrical construction administration services fee proposal for the Palm Beach County Department of Airports (DOA) – PBIA Parking Garage Improvements.

### **Task 1: Construction Administration Services**

- Includes attendance at pre-construction meeting with DOA, AECOM and Contractor.
- Includes preparation of Conformed Documents for Construction.
- Includes electrical and fire alarm shop drawings submittals reviews & approvals.
- Includes (6) site observation visits.
- Includes attendance at bi-weekly progress meetings (6) with DOA, AECOM and Contractor.
- Includes requests for information reviews & approvals.
- Includes change order reviews and comments.
- Includes substantial and final completion inspections.
- Includes record drawings based on Contractor "Red Line Plan Mark-ups."

### **Task 2: Arc Flash Analysis Update for Terminal**

- Up-dating the existing power system model in SKM Power Tools for Windows for the modifications to the electrical distribution systems. This update will be specific to the breaker replacements within Switchboard EMT2 and EMT3.
- Perform Short Circuit, Device Coordination and Arc Flash Calculations using SKM.
- Review and evaluate device settings on approximately 26 circuit breakers. Replace existing and/or create new Time Current Curves (TCC) for approximately 2 devices.
- Update one-lines, written report and tabular data.
- Develop new Arc Flash labels and replace the arc flash labels (approximately 18 labels) impacted by this project.
- Modify circuit breaker and relay settings for new and existing equipment as required by the study.

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

[www.QuantumElectricalEngineering.com](http://www.QuantumElectricalEngineering.com)

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

Lump-Sum fee for Task 1 CA Services is:	\$ 6,617.25
<u>Lump-Sum fee for Task 2 Arc Flash Update for Terminal is:</u>	<u>\$ 5,769.16</u>
<b>Our proposed total Lump-Sum fee is:</b>	<b>\$ 12,386.41</b>

(See attachment breakdown)

Sincerely,



Amy L. Champagne-Baker, PE  
President

Palm Beach County  
2755 Vista Parkway, Suite I-9  
West Palm Beach, FL 33411  
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954.369.5810

**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PBIA PARKING GARAGE IMPROVEMENTS CA SERVICES  
 QUANTUM ELECTRICAL ENGINEERING, INC.  
 SCOPE FEE SUMMARY  
 FEE PROPOSAL ELECTRICAL SERVICES to AE 12/13/2022**

PHASE OF WORK	Rate		Proj. Mgr. Hours	Prof. Eng Hours	Proj. Eng Hours	CADD/Tech Hours	Field Eng. Hours	Clerical Hours	Total Hours	Expenses	TOTAL TASK COST
	\$161.54	\$144.23									
<b>Task 1: Construction Administration Services</b>											
Pre-Construction Meeting		1							1		\$144.23
Prepare Confirmed Documents					1				2		\$207.69
Review and Approve Shop Drawings				8		1		1	9		\$1,199.99
On-site Observations/Field Visits (6 visits @ 2hrs ea)		12						2	14		\$1,823.06
Bi-weekly Construction Coordination Meetings (6 meetings at 1hr ea)		6							6		\$865.38
Respond to Requests for Information (RFI)				4		4		2	10		\$946.14
Change Orders				1					1		\$144.23
Substantial Completion				4					4		\$576.92
Final Completion				2					2		\$288.46
Review As-builts					1				1		\$138.46
Prepare Record Documents				1		2			3		\$282.69
<b>Subtotal</b>	<b>0</b>	<b>39</b>	<b>0</b>	<b>39</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>5</b>	<b>53</b>		<b>\$6,617.25</b>
<b>Task 2: Arc Flash Analysis Update for Terminal</b>											
Model Update/Arc Flash Analysis				16	8				24		\$3,415.36
Update Report & Labeling				8	4	4		8	24		\$2,353.80
<b>Subtotal</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>24</b>	<b>12</b>	<b>4</b>	<b>0</b>	<b>8</b>	<b>48</b>		<b>\$5,769.16</b>
<b>Grand Total Hours</b>	<b>0</b>	<b>63</b>	<b>0</b>	<b>63</b>	<b>14</b>	<b>11</b>	<b>0</b>	<b>13</b>	<b>101</b>		
<b>Grand Total Labor Cost</b>	<b>\$0.00</b>	<b>\$9,086.49</b>	<b>\$0.00</b>	<b>\$1,938.44</b>	<b>\$761.53</b>	<b>\$0.00</b>	<b>\$599.95</b>				<b>\$12,386.41</b>



## 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
<b>TASK I SERVICES</b>				
Task I-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RPR	\$157,337.30	\$98,920.00	\$4,000	\$260,257.30
Task I-23-PBI-A-083 PBI Pavement Repairs CA/RPR Services	\$6,705	\$54,000	\$1,000	\$61,705
Task I-23-LNA-A-084 LNA West Apron Reconstruction (CA/CM/RPR)	\$88,303.57	\$106,829.00	\$12,360	\$207,492.57
Task I-23-PBI-A-085 PBI Garage Repairs CM/CA/RPR Services	\$181,090.41	\$177,081.00	\$16,000	\$374,171.41
<b>TASK III SERVICES</b>				
Task III: Deliverable(s) As required in accordance with specific Task Authorizations				\$250,000
<b>TOTAL</b>				<b>\$1,153,626.28</b>

## 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
<b>TASK I SERVICES</b>		
Task I-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RPR	200 Days	\$260,257.30
Task I-23-PBI-A-083 PBI Pavement Repairs CA/RPR Services	120 Days	\$61,705
Task I-23-LNA-A-084 LNA West Apron Reconstruction (CA/CM/RPR)	190 Days	\$207,492.57
Task I-23-PBI-A-085 PBI Garage Repairs CM/CA/RPR Services	330 Days	\$374,171.41
<b>TASK III SERVICES</b>		
Task III: Deliverable(s) As required in accordance with specific Task Authorizations	TBD	\$ 250,000.00
<b>TOTAL</b>		<b>\$1,153,626.28</b>



## EXHIBIT C

### PROPOSED SCHEDULES

<b>Project</b>	<b>Duration</b>
<b>TASK I SERVICES</b>	
Task I-23-PBI-A-82 PBI Part 139 Grading Design/CM/CA/RPR	200 Days
Task I-23-PBI-A-083 PBI Pavement Repairs CA/RPR Services	120 Days
Task I-23-LNA-A-084 LNA West Apron Reconstruction (CA/CM/RPR)	90 Days
Task I-23-PBI-A-085 PBI Garage Repairs CM/CA/RPR Services	330 Days
<b>TASK III SERVICES</b>	
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 Change Order/Task/Amendment No. (if applicable): Amendment 10  
 Name of Respondent: AECOM Technical Services, Inc. E-mail Address: Andy.Kacer@aecom.com  
 Contact Person: Andrew Kacer  
 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	_____%	_____%	2.68 %	_____%
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 1.34 %
		<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	_____%	_____%
		<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	_____%	_____%
		<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	_____%	_____%

**Total Percentage of DBE Participation: 4.02 %**

**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.

*Andrew Kacer*

By: \_\_\_\_\_ Date: 12/23/2023

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 10

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:** 2.68 %

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: 12-22-2022